

MF112153

<i>State Lease</i>	<i>Control</i>	<i>Base File</i>	<i>County</i>
MF112153	56-030239		GLASSCOCK

<i>Survey</i>	HIGHWAYS & PUBLIC TRANSPORTATION DE
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*Block*

*Block Name*

*Township*

*Section/Tract*

*Land Part*

<i>Part Description</i>	HIGHWAY RIGHT-OF-WAY
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<i>Acres</i>	75.32
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<i>Depth Below</i>	<i>Depth Above</i>	<i>Depth Other</i>
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<i>Name</i>	COG OPERATING LLC
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<i>Lease Date</i>	4/5/2011
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<i>Primary Term</i>	3 yrs
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<i>Bonus (\$)</i>	\$11,298.00
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<i>Rental (\$)</i>	\$0.00
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<i>Lease Royalty</i>	0.2500
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*Leasing:* AB

*Analyst:* Tom

*Maps:* \_\_\_\_\_

*GIS:* ZC

*DocuShare:* \_\_\_\_\_



CONTENTS OF FILE NO. MF- 112153

1. Lease	2/25/11	23.) Unit #6814 Currie "A"	
2. Kicker + bonus	2/25/11	State #4003	2/17/14
3. JO memo	2/25/11	24.) Unit #6815 Currie "A"	
4. Blats	2/25/11	State #4510	2/17/14
5. Affidavit	2/25/11	25. DIVISION ORDER	11/04/13
6. Lease	2/25/11	<i>scanned PJ 7-30-14</i>	
7. JO letter	4/21/11	26. ID 7989 Correction of Partial	
8. DIVISION ORDER Currie #2508		Assignment made to Database	2-12-13
9. DPU-Currie State #2508 #5160		27. DIVISION ORDER	10.30.13
8-25-11		<i>scanned PJ 2-3-15</i>	
10. Recorded copy of lease	11-7-11	28. DIVISION order	7-15-13
11. DIVISION ORDER Currie "E" 3113		29. RRC FORMS 173-35602	8-6-13
12. Unit Renignation #5669 11-7-11		30. RRC FORMS 173-35917	2-11-14
13. Unit 6062-Currie E 3102 12.14.12		31. RRC FORMS 173-35964	3-28-14
<i>scanned PJ 3-26-13</i>		32. RRC FORMS 173-35870	6-16-14
14. DIVISION ORDER	10/28/11	33. DIVISION order	2-18-14
15. DIVISION ORDER	12/17/12	34. Unit 7654 Agreement	9/3/15
<i>scanned sm 7/30/13</i>		<i>scanned PJ 10-9-15</i>	
16. DIVISION ORDER	08/19/13	35) Request to commingle	
<i>scanned PJ 10/28/13</i>		Sec 40 Currie 'A'	8/25/16
17.) Unit #6683, Currie "E" State		36) Resubmit request to commingle	
#3108 Pooled Unit	11/1/13 - M.A.	Sec 40 Currie 'A'	8/25/16
18.) Unit #6684, Currie "E" State		37) Request to commingle	
#4101 Pooled Unit	11/1/13 - M.A.	Currie 'A' sec 4	8/25/16
19.) Unit #6685, Currie "E" State		38) Request to commingle	
#4102 Pooled Unit	11/1/13 - M.A.	Currie 'E' Sec 32	8/25/16
20) Division Order	7/8/13	39) Request to commingle	
21) Unit #6691 Currie "E" State		Currie 'E' Sec 31	8/25/16
#4104	11/1/13	40) Resubmit Request to commingle	
22.) Unit #6813 Currie "E"		Currie 'E' Sec 41 & 42	8/25/16
State #3207	2/17/14	41) Request to commingle	
		Currie 'E' sec 41 & 42	8/25/16

CONTENTS OF FILE NO. MF- 112153

- (42) Currie 'E' & 'A' multiple letters -  
Agree to commingle 8/25/16
- (43) Currie 'E' & 'A' RRC Form  
P-17 July 2014 8/25/16
- (44) Request to commingle  
Currie 'E' North Sec 30 8/25/16
- (45) GLO email 3/6/15  
Currie 'E' unit nos. 8/25/16
- (46) Agree to commingle  
Currie 'E' North Sec 30 8/25/16
- (47) Request to commingle 4/29/15  
Currie 'E', Currie State 8/25/16
- (48) Concho Email 5/28/15 to  
create RRC Lease for each unit 8/25/16
- (49) Request to commingle  
Currie 'E', 'EF' & 'EH' Units 8/25/16
- (50) Request to commingle  
Currie 'E' North & 'EA' state Units 8/25/16
- (51) Request to commingle  
Currie 'E', 'EB', 'EC' & 'ED' Units 8/25/16
- (52) Request to commingle  
Currie 'E' North, 'EE' & 'E6' Units 8/25/16
- (53) Agree to commingle  
Multiple MF112153 state Units 8/25/16

scanned PJ 10-26-16

# The State of Texas

HROW Lease  
Revised 8/06



## Austin, Texas

PAID-UP  
OIL AND GAS LEASE NO. (MF 112153)  
GENERAL LAND OFFICE  
AUSTIN, TEXAS

THIS AGREEMENT made and entered into by and between the Commissioner of the General Land Office of the State of Texas, whose address is Stephen F. Austin Building, 1700 North Congress, Austin, Texas, 78701, hereinafter called "Lessor", hereunto authorized by the School Land Board, pursuant to the provisions of Chapters 32 and 52 of the Natural Resources Code (hereinafter called N.R.C.), and amendments thereto, and all applicable rules promulgated by the School Land Board and **COG Operating, LLC**, whose address is **550 W. Texas Ave., Suite 1300, Midland, TX 79701** hereinafter called "Lessee".

1. Lessor, in consideration of **Eleven Thousand Two Hundred Ninety Eight 00/100 (\$ 11,298.00)** receipt of which is hereby acknowledged, and of the covenants and agreements of Lessee hereinafter contained, does hereby grant, lease, and let unto Lessee the land covered hereby for the purposes and with the exclusive right of exploring, drilling, mining and operating for, producing and owning oil, gas, and all other hydrocarbons, produced from the land covered hereby. The land covered hereby, herein called "said land" is located in the County of **Glasscock** State of Texas, and is described as follows:

**75.32** of land, more or less, known as, situated in said **Glasscock** County, Texas, more particularly described in Exhibit "A" attached hereto and made a part hereof together with a plat, attached hereto as Exhibit "B", depicting said right-of-way and surrounding area for purposes of illustration only.

For the purpose of determining the amount of any bonus or other payment hereunder, said land shall be deemed to contain **75.32** acres, whether actually containing more or less, and the above recital of acreage shall be deemed to be the true acreage thereof. Lessor accepts the bonus as lump sum consideration for this lease and all rights and options hereunder.

2. PRIMARY TERM: This lease, which is a "paid up" lease requiring no rentals, shall remain in force for a term of **three years, from April 5th, 2011** hereinafter called "primary term", and as long thereafter as operations, as hereinafter defined, are conducted upon said land with no cessation for more than ninety (90) consecutive days.

3. ROYALTIES: As royalty Lessee covenants and agrees:

(a) To deliver to the credit of Lessor, in the pipe line to which Lessee may connect its well, the equal **1/4** part of all oil produced and saved by Lessee from said land, or from time to time, at the option of Lessee, to pay Lessor the average posted market price of such **1/4** part of such oil at the wells as of the day it is run to the pipe line or storage tanks, Lessor's interest, in either case, to bear none of the cost of treating oil to render it marketable pipe line oil;

(b) To pay Lessor on gas and casing head gas produced from said land (1) when sold by lessee **1/4** of the amount realized by Lessee, computed at the mouth of the well, or (2) when used by Lessee off said land or in the manufacture of gasoline or other products, the market value, at the mouth of the well, of **1/4** of such gas and casing head gas.

(c) If, at the expiration of the primary term or at any time or times thereafter, there is any well on said land or on lands with which said land or any portion thereof has been pooled, capable of producing oil or gas, and all such wells are shut-in, this lease shall, nevertheless, continue in force as though operations were being conducted on said land for so long as said wells are shut-in, and thereafter this lease may be continued in force as if no shut-in had occurred

(d) Lessee covenants and agrees to use reasonable diligence to produce, utilize, or market the minerals capable of being produced from said wells, but in the exercise of such diligence, Lessee shall not be obligated to install or furnish facilities other than well facilities and ordinary lease facilities of flow lines, separator, and lease tank, and shall not be required to settle labor trouble or to market gas upon terms unacceptable to Lessee.

(e) If at any time or times after the expiration of the primary term, all such wells are shut-in for a period of ninety consecutive days, and during such time there are no operations on said land, then at or before the expiration of said ninety day period, lessee shall pay or tender, by check of lessee, as royalty, the sum of **\$ 25.00 per acre**. Lessee shall make like payments or tenders at or before the end of each anniversary of the expiration of said ninety day period if upon such anniversary this lease is being continued in force solely by reason of the provisions of this paragraph. Each such payment or tender shall be made to the parties who at the time of payment would be entitled to receive the royalties which would be paid under this lease if the wells were producing. Nothing herein shall impair lessee's right to release as provided in paragraph 5 hereof. In the event of assignment of this lease in whole or in part, liability for payment hereunder shall rest exclusively on the then owner or owners of this lease, severally as to acreage owned by each.

(f) All royalties not taken in kind shall be paid to the Commissioner of the General Land Office at Austin, Texas, in the following manner:

Royalty on oil is due and must be received in the General Land Office on or before the 5th day of the second month succeeding the month of production, and royalty on gas is due and must be received in the General Land Office on or before the 15th day of the second month succeeding the month of production, accompanied by the affidavit of the owner, manager, or other authorized agent, completed in the form and manner prescribed by the General Land Office and showing the gross amount and disposition of all oil and gas produced and the market value of the oil and gas, together with a copy of all documents, records or reports confirming the gross production, disposition and market value including gas meter readings, pipeline receipts, gas line receipts and other checks or memoranda of amount produced and put into pipelines, tanks, or pools and gas lines or gas storage, and any other reports or records which the General Land Office may require to verify the gross production, disposition and market value. In all cases the authority of a manager or agent to act for the Lessee herein must be filed in the General Land Office. Each royalty payment shall be accompanied by a check stub, schedule, summary or other remittance advice showing by the assigned General Land Office lease number the amount of royalty being paid on each lease. If Lessee pays his royalty on or before thirty (30) days after the royalty payment was due, the Lessee owes a penalty of 5% on the royalty or \$25.00, whichever is greater. A royalty payment which is over thirty (30) days late shall accrue a penalty of 10% of the royalty due or \$25.00, whichever is greater. In addition to a penalty, royalties shall accrue interest at a rate of 12% per year; such interest will begin accruing when the royalty is sixty (60) days overdue. Affidavits and supporting documents which are not filed when due shall incur a penalty in an amount set by the General Land Office administrative rule which is effective on the date when the affidavits or supporting documents were due. The Lessee shall bear all responsibility for paying or causing royalties to be paid as prescribed by the due date provided herein. Payment of the delinquency penalty shall in no way operate to prohibit the State's right of forfeiture as provided by law nor act to postpone the date on which royalties were originally due. The above penalty provisions shall not apply in cases of title dispute as to the State's portion of the royalty or to that portion of the royalty in dispute as to fair market value. The State shall have first lien upon all oil and gas produced from the area covered by this lease to secure the payment of all unpaid royalty and other sums of money that may become due to the State hereunder.

4. POOLING: (a) Lessee is hereby granted the right, at its option, to pool or unitize any land covered by this lease with any other land covered by this lease, and/or with any other land, lease, or leases, as to any or all minerals or horizons. Units pooled for oil hereunder shall not exceed 160 acres each in area, and units pooled for gas hereunder shall not exceed in area 640 acres each plus a tolerance often percent (10%) thereof, unless oil or gas units of a greater size are allowed under or prescribed by rules of the Railroad Commission of Texas. A unit established hereunder shall be valid and effective for all purposes of this lease even though there may be mineral, royalty, or leasehold interests in lands within

the unit, which are not effectively pooled or unitized. Any operations conducted on any part of such unitized land shall be considered, for all purposes, except the payment of royalty, as operations conducted upon said land under this lease. There shall be allocated to the land covered by this lease within each such unit (or to each separate tract within the unit if this lease covers separate tracts within the unit) the proportion of the total production of unitized minerals from the unit, after deducting any used in lease or unit operations, which the number of surface acres in such land (or in each such separate tract) covered by this lease within the unit bears to the total number of surface acres in the unit, and the production so allocated shall be considered for all purposes, including payment or delivery of royalty, overriding royalty and any other payments out of production, to be the entire production of unitized minerals from the land to which allocated in the same manner as though produced there from under the terms of this lease. The owner of the reversionary estate of any term royalty or mineral estate agrees that the accrual of royalties pursuant to this paragraph or of shut-in royalties from a well on the unit shall satisfy any limitation of term requiring production of oil or gas. The formation of any unit hereunder which includes land not covered by this lease shall not have the effect of exchanging or transferring any interest under this lease (including, without limitation, any shut-in royalty which may become payable under this lease) between parties owning interests in land covered by this lease and parties owning interests in land not covered by this lease. Neither shall it impair the right of Lessee to release as provided in paragraph 5 hereof, except that Lessee may not so release as to lands within a unit while there are operations thereon for unitized minerals unless all pooled leases are released as to lands within the unit. At any time while this lease is in force Lessee may dissolve any unit established hereunder by filing for record in the public office where this lease is recorded a declaration to that effect, if at that time no operations are being conducted thereon for unitized minerals. Subject to the provisions of this paragraph 4, a unit once established hereunder shall remain in force for so long as any lease subject thereto shall remain in force. If this lease now or hereafter covers separate tracts, no pooling or unitization of royalty interests as between any such separate tracts is intended or shall be implied or result merely from the inclusion of such separate tracts within this lease but Lessee shall nevertheless have the right to pool or unitize as provided in this paragraph 4 with consequent allocation of production as herein provided. As used in this paragraph 4, the words "separate tract" mean any tract with royalty ownership differing, now or hereafter, either as to parties or amounts, from that as to any other part of the leased premises.

(b) Neither unit production of oil or gas, nor unit operations, nor payment of shut-in royalties from a unit gas well, shall serve to hold the lease in force as to any area outside the unit, regardless of whether the production, maintenance of a shut-in gas well, or operations are actually located on the State tract or not.

(c) Lessee agrees to file with the General Land Office a copy of any unit designation, which this lease is included within ninety (90) days of such designation.

5. RELEASE: Lessee may relinquish the rights granted hereunder to the State at any time by recording the relinquishment in the county where this area is situated and filing the recorded relinquishment or certified copy of same in the General Land Office within ninety (90) days after its execution accompanied by the prescribed filing fee. Such relinquishment will not have the effect of releasing Lessee from any liability theretofore accrued in favor of the State.

6. REWORK: If at any time or times during the primary term operations are conducted on said land and if all operations are discontinued, this lease shall thereafter terminate at the end of the primary term or on the ninetieth day after discontinuance of all operations, whichever is the later date, unless on such later date either (1) Lessee is conducting operations or (2) the shut-in well provisions of paragraph 3 or the provisions of paragraph 9 are applicable. Whenever used in this lease the word "operations" shall mean operations for and any of the following: drilling, testing, completing, reworking, recompleting, deepening, plugging back or repairing of a well in search for or in an endeavor to obtain production of oil or gas, or production of oil or gas in paying quantities.

7. MINERAL USE: Lessee shall have the use, free from royalty, of oil and gas produced from said land in all operations hereunder.

8. NOTICE: In the event Lessor considers that Lessee has not complied with all its obligations hereunder, both express and implied, Lessor shall notify Lessee in writing, setting out specifically in what respects Lessee has breached this contract. Lessee shall then have sixty (60) days after receipt of said notice within which to meet or commence to meet all

or any part of the breaches alleged by Lessor. The service of said notice shall be precedent to the bringing of any action by Lessor on said lease for any cause, and no such action shall be brought until the lapse of sixty (60) days after service of such notice on Lessee. Neither the service of said notice nor the doing of any acts by Lessee aimed to meet all or any of the alleged breaches shall be deemed an admission or presumption that Lessee has failed to perform all its obligations hereunder. If this lease is canceled for any cause, it shall nevertheless remain in force and effect as to (1) sufficient acreage around each well as to which there are operations to constitute a drilling or maximum allowable unit under applicable governmental regulations, (but in no event less than forty acres), such acreage to be designated by Lessee as nearly as practicable in the form of a square centered at the well, or in such shape as then existing spacing rules require; and (2) any part of said land included in a pooled unit on which there are operations.

9. FORCE MAJEURE: If, while this lease is in force, at, or after the expiration of the primary term hereof, it is not being continued in force by reason of the shut-in well provisions of paragraph 3 hereof, and Lessee is not conducting operations on said land by reason of (1) any law, order, rule or regulation, (whether or not subsequently determined to be invalid) or (2) any other cause, whether similar or dissimilar, (except financial) beyond the reasonable control of Lessee, the primary term shall be extended until the first anniversary date hereof occurring ninety (90) or more days following the removal of such delaying cause, and this lease may be extended thereafter by operations as if such delay had not occurred.

10. LESSER ESTATE CLAUSE: If this lease covers a less interest in the oil or gas in all or any part of said land than the entire and undivided fee simple estate (whether lessors interest is herein specified or not), or no interest therein, then the royalties, and other monies accruing from any part as to which this lease covers less than such full interest, shall be paid only in the proportion which the interest therein, if any, covered by this lease bears to the whole and undivided fee simple estate therein.

11. ASSIGNMENTS: This lease may be transferred at any time. All transfers must reference the lease by file number and must be recorded in the county where the land covered hereby is located, and the recorded transfer or a copy certified to by the County Clerk of the county where the transfer is recorded must be filed in the General Land Office within ninety (90) days of the execution date, as provided by N.R.C. Section 52.026, accompanied by the prescribed filing fee. Every transferee shall succeed to all rights and be subject to all obligations, liabilities, and penalties owed to the State by the original Lessee or any prior transferee of the lease, including any liabilities to the State for unpaid royalties.

12. WELL INFORMATION: Lessee agrees to forthwith furnish Lessor, upon written request, with copies of all drilling logs, electrical logs, cores and core records and other information pertaining to all wells drilled by lessee either on the leased premises or acreage pooled therewith, when requested to do so. Said information shall remain confidential as required by statute.

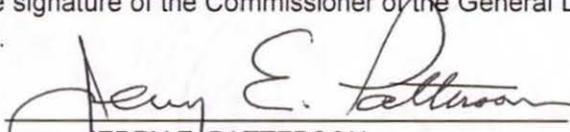
13. SURFACE: Notwithstanding anything herein to the contrary, it is agreed that Lessee will not conduct any exploration or drilling on the surface of the leased premises or use the surface in the exercise of any rights herein granted. Any development of said land shall be by means of a directional well located off the leased premises, or by pooling of said land with other land, lease or leases as hereinabove provided.

14. COMPENSATORY ROYALTY: Lessee shall pay a compensatory royalty if this lease is not being held by production on the leased premises, by production from a pooled unit, or by payment of shut-in royalties in accordance with the terms of this lease, and if oil or gas is sold or delivered in paying quantities from a well located within 2,500 feet of the leased premises and completed in a producible reservoir underlying the area leased hereunder or in any case in which drainage is occurring. Such compensatory royalty shall be paid at the royalty rate provided in this lease based on the value of production from the well as provided in the lease on which such well is located. The compensatory royalty shall be paid in the same proportion that the acreage of this lease has to the acreage of the proration unit surrounding the draining well plus the acreage of this lease. The compensatory royalty shall be paid monthly to the Commissioner of the General Land Office on or before the last day of the month after the month in which the oil or gas is sold and delivered from the well

causing the drainage or from the well located within 2500 feet of the leased premises and completed in a producible reservoir under this lease. Notwithstanding anything herein to the contrary, compensatory royalty payable hereunder shall be no less than an amount equal to **double the shut-in royalty** and shall maintain this lease in effect for so long as such payments are made as provided herein.

15. FORFEITURE: If Lessee shall fail or refuse to make payment of any sum within thirty (30) days after it becomes due, or if Lessee or an authorized agent should knowingly make any false return or false report concerning production or drilling, or if Lessee shall fail or refuse to drill any offset well or wells in good faith as required by law and the rules and regulations adopted by the Commissioner of the General Land Office, or if Lessee should fail to file reports in the manner required by law or fail to comply with rules and regulations promulgated by the General Land Office, or refuse the proper authority access to the records pertaining to operations, or if Lessee or an authorized agent should knowingly fail or refuse to give correct information to the proper authority, or knowingly fail or refuse to furnish the General Land Office a correct log of any well, or if this lease is pooled or assigned and the unit designation or assignment is not filed in the General Land Office as required by law, the rights acquired under this lease shall be subject to forfeiture by the Commissioner, and he shall forfeit same when sufficiently informed of the facts which authorize a forfeiture, and when forfeited the area shall again be subject to lease. However, nothing herein shall be construed as waiving the automatic termination of this lease by operations of law or by reason of any special limitation arising hereunder. Forfeitures may be set aside and this lease and all rights there under reinstated before the rights of another intervene upon satisfactory evidence to the Commissioner of the General Land Office of future compliance with the provisions of the law and of this lease and the rules and regulations that may be adopted relative hereto.

IN TESTIMONY WHEREOF, witness the signature of the Commissioner of the General Land Office of the State of Texas under the seal of the General Land Office.

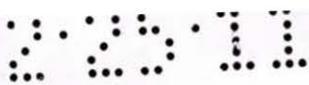
  
JERRY E. PATTERSON  
COMMISSIONER, GENERAL LAND OFFICE

Approved:

ML: 

DC: 

CC: 



**METES AND BOUNDS DESCRIPTION of  
75.32 Acres in State Highway #158  
Right-of-Way out of  
Block 33, T-4-S, & Block 32, T-4-S,  
T. & P. RR. Co.,  
Glasscock County, Texas**

*Beginning at Highway Station 264-65, a point on the west line of Section 23, Block 33, T-4-S, T. & P. RR. Co., and on the centerline of State Highway #158, from which the calculated northwest corner of said Section 23 bears N 14°26'00" W 1824.00 feet;*

*Thence N 14°26'00" W, with the west line of said Section 23, 66.65 feet to a point on the west line of said Section 23 and in the north right-of-way of State Highway #158 for the most northwesterly corner of this tract;*

*Thence S 78°37'00" E, with the north right-of-way of State Highway #158, 5941.13 feet to the point of curvature of a circular curve to the right;*

*Thence around said curve, whose central angle is 21°35', a distance of 2180.94 feet to the point of tangency of said curve;*

*Thence S 57°02'00" E, with the northeast right-of-way of State Highway #158, 55.41 feet pass the north line of Section 25, Block 33, T-4-S, T. & P. RR. Co., 3695.05 feet pass the east line of said Section 25, a total distance of 11888.79 feet to a point in the northeast right-of-way of State Highway #158;*

*Thence S 56°17'00" E, with the northeast right-of-way of State Highway #158, 7314.02 feet to a point on the east line of Section 41, Block 32, T-4-S, T. & P. RR. Co. and in the northeast right-of-way of State Highway #158 for the most northeasterly corner of this tract;*

*Thence S 14°26'00" E, with the east line of said Section 41, 179.86 feet to a point on the east line of said Section 41 and in the southwest right-of-way of State Highway #158, for the most southeasterly corner of this tract;*

*Thence N 56°17'00" W, with the southwest right-of-way of State Highway #158, 7447.99 feet to a point in the southwest right-of-way of State Highway #158;*

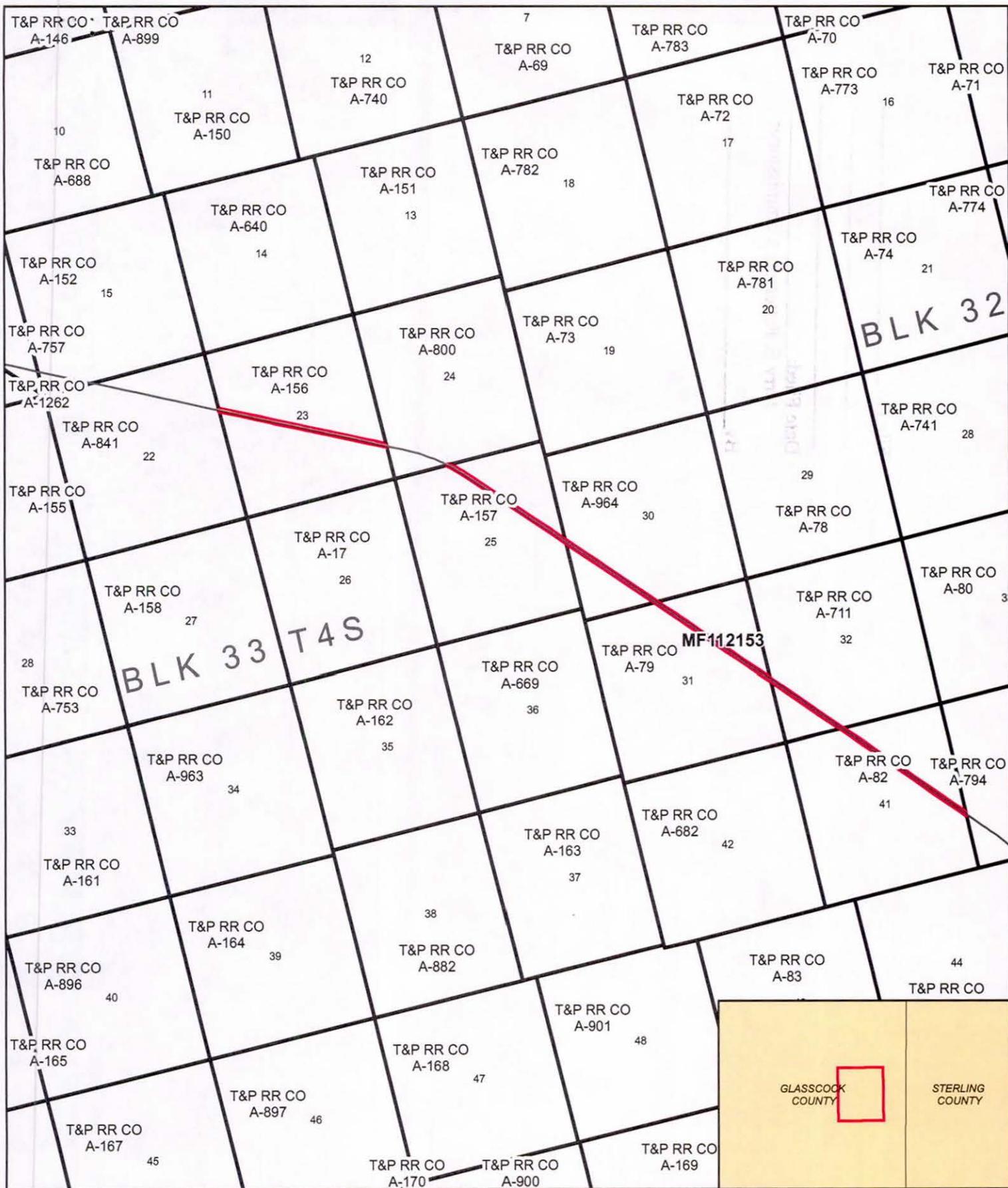
*Thence N 57°02'00" W, with the southwest right-of-way of State Highway #158, 8061.06 feet pass the east line of said Section 25, a total distance of 11887.21 feet to the point of curvature of a circular curve to the left;*

*Thence around said curve, whose central angle in 21°35', a distance of 2135.73 feet to the point of tangency of said curve;*

*Thence N 78°37'00" W, with the south right-of-way of State Highway #158, 5883.07 feet to a point on the west line of said Section 23 and in the south right-of-way of State Highway #158, for the most southwesterly corner of this tract;*

*Thence N 14°26'00" W, with the west line of Section 23, 66.65 feet to the point of beginning.*

**LESS & EXCEPT approximately 6.2 Acres out of Section 24, Block 33, T-4-S, T. & P. RR. Co., Glasscock County.**



Map Showing a Buffer of  
SH 158  
75.32 Acres  
Glasscock County, TX

4,000 2,000 0 4,000 Feet



The Texas General Land Office makes no representations or warranties regarding the accuracy or completeness of the information depicted on this map or the data from which it was produced. This map IS NOT suitable for navigational purposes and does not purport to depict or establish boundaries between private and public land.



Map Generated by:  
Mark Conway  
IS/BAS/GIS  
February 2011

1  
File No. MT 112153

Lease

Date Filed: 7/25/11

Jerry E. Patterson, Commissioner

By [Signature]



February 24, 2011

Commissioner of the General Land Office  
Lease Administration  
1700 North Congress Avenue, Room 1600  
Austin, Texas 78701

**Re: Glass 2 & Glass 2 East Prospect**  
**Partial renewal of Lease No. 106956**  
**Insofar as it covers Highway ROW in Sections 23,**  
**25, Block 33, T-4-S, T&P RY Co. Survey, and**  
**Sections 30, 31, 32, and 41, Block 32, T-4-S, T&P**  
**RY Co. Survey, Glasscock County, Texas,**  
**containing 75.32 acres, more or less**

Gentlemen:

This letter is our formal request and application for a renewal of Lease No. 106956 insofar as it covers the segments described above of State Highway 158 in Glasscock County, Texas. We are not requesting a renewal of that portion of Lease No. 106956 covering the State Highway 158 ROW in Section 17, Block 33, T-4-S, T&P RY Co. Survey (Lease 1 on the land plat) as our leasehold on both sides of the State Highway 158 ROW in said Section 17 has expired and not renewed. With this letter, we submit the following:

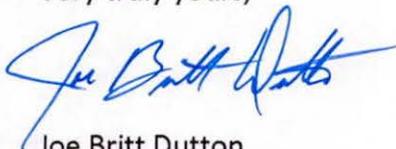
1. Affidavit by Joe Britt Dutton dated February 21, 2011 stating the sections of land involved, the total acres involved, the ownership of lands offsetting the highway tracts, the highest bonus paid was \$150.00 per acre, that there is no well capable of producing in paying quantities within 2,500 feet of any portion of the Highway tract and that the lease requested for renewal is not for the purpose of drilling a horizontal well.
2. A land plat showing the acreage applied for highlighted in yellow. This plat also shows our leases 2 and 3 on either side of the highway.
3. A surveyor's plat of the highway showing the acreage content.
4. You have previously been provided Certified copies of Lease 2 along with a Certified copy of Memorandum of Oil and Gas Lease for Lease 3 with a Xerox copy of Lease 3 itself.
5. Copies of the Metes and Bounds description by the surveyor of the lands we are requesting a renewal of the lease.
6. Our check No. 0000091724 dated February 17, 2011 in the amount of \$11,567.47 covering \$11,298.00 as bonus consideration (75.32 acres @ \$150.00), a \$100.00 processing fee and \$169.47 as a one and one-half (1 ½) percent statutory sales fee.

20511

Please issue an Oil and Gas Lease to COG Operating LLC, 550 West Texas Avenue, Suite 100, Midland, Texas 79702 as soon as possible.

Thank you for your considering this application for partial renewal of the captioned lease. You may call the undersigned at (432) 818-2211 if you need to discuss this offer.

Very truly yours,



Joe Britt Dutton  
Senior Landman

COG OPERATING LLC

550 W. Texas Ave Suite 100  
MIDLAND TX 79701  
(432) 683-7443

Check Number 0000091724

Invoice #	Inv. Date	Description	Amount	Discount	Net Amount
021611	02/16/2011		11,567.47	0.00	<del>11,567.47</del>

11706433

121

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•••••  
•••••  
•••••  
•••••  
•••••

2,

File No. MF 112153

Letter + bonus

Date Filed: 7/25/11

Jerry E. Patterson, Commissioner

By [Signature]

5577



# MEMORANDUM

Texas General Land Office • Jerry Patterson • Commissioner

## HIGHWAY RIGHT OF WAY LEASE CHECKLIST

STATE LEASE MF 112153

LESSEE COG Operating LLC

Address 550 W. Texas Avenue, Suite 1300 Midland, TX 79701

BONUS PER ACRE \$150<sup>00</sup> (Check for affidavit of consideration paid.)

TOTAL CONSIDERATION \$11,298<sup>00</sup> PAID?  Yes  No WHEN? 2/25/11

ROYALTY 1/4 TERM 3 years

DATE OF LEASE 4/5/11

SHUT IN ROYALTY PER ACRE \$25<sup>00</sup> TOTAL ACRES 75.32

COUNTY Glasscock

ROAD NAME State Highway 158

FULL DESCRIPTION [Abstract, Block, Township, Section]  
Sections 23, 25, Block 33, T-45, and Sections 30, 31, 32, 41, Blk. 32,

EXHIBIT FOR LEASE PROVIDED?  Yes  No [Do not write on Exhibit.]

PLAT PROVIDED?  Yes  No Put sticky note on correct plat with MF #, acres, highway name, county, & abstract number for Zeke.

T-45,  
T. & P. Ry.  
Co. Survey

- Clip all adjoining leases together.
- Clip all deeds together.
- Give to Beverly to generate lease and docket.

SEE M-106956 for title work, ROW deeds

3.

File No. MF 112153

Do Meno

Date Filed: 2/25/11

Jerry E. Patterson, Commissioner

By [Signature]



4.

455

File No. MF112453  
Dato  
 Date Filed: 7/25/11  
 Jerry E. Patterson, Commissioner  
 By: [Signature]

*[Faint yellow stamp or watermark, possibly containing the word "RECEIVED" or similar, is visible in the background.]*



AFFIDAVIT

STATE OF TEXAS §  
COUNTY OF GLASSCOCK §

Affiant: Joe Britt Dutton  
550 West Texas Avenue, Suite 100  
Midland, Texas 79701

Date: February 21, 2011

Affiant on oath swears that the following statements are true:

My name is Joe Britt Dutton. I am a Senior Landman with COG Operating LLC, which is applying for a lease underlying that portion of Highway 158 in Glasscock County, Texas, which is depicted on the plat submitted herewith (the "Highway tract"). The Highway tract crosses Sections 23 and 25 in Block 33 and also crosses Sections 30, 31, 32 and 41 in Block 32, all in T-4-S, T&P Ry. Co. Survey, Glasscock County, Texas. The Highway tract consists of 75.32 acres, more or less.

In my position with COG Operating LLC ("COG"), I am familiar with the mineral and leasehold ownership on the acreage adjoining the Highway tract, the basis upon which the adjoining leases were acquired and COG's exploration plans for this area. Henry Petroleum LP, the original lessee, was purchased in its entirety by COG, and COG will be the Operator of the leases currently in effect on both sides of the Highway tract. The highest bonus paid for any of these leases was \$150/acre. COG and certain other working interest partners, currently own the full leasehold estate in all of the acreage adjoining the Highway tract on both sides. There are no unleased mineral interests in the adjoining acreage. COG requests that the lease be issued in its favor so that it can assign undivided interests in said lease to its other working interest partners in their respective participation percentages.

I have determined that, as of February 21, 2011 there was no well capable of producing in paying quantities located within 2,500 feet of any portion of the Highway tract. The lease being applied for is not for the purpose of drilling a horizontal well.

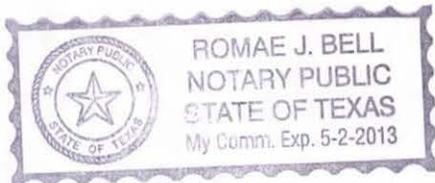
This Affidavit is executed by Affiant and made a part of the documents submitted in support of its application for an oil and gas lease covering the Highway tract.

Affiant:

*Joe Britt Dutton*

Joe Britt Dutton

SUBSCRIBED AND SWORN TO before me this the 24<sup>th</sup> day of February, 2011.



*Romae J Bell*  
Notary Public - State of Texas

5,

File No. ME 112153

*Jerry E. Patterson*

Date Filed: 2/25/11  
Jerry E. Patterson, Commissioner

By *JEP*

1105

BOOK 0098 P 686

# The State of Texas

HROW Lease  
Revised 8/06



## Austin, Texas

PAID-UP  
OIL AND GAS LEASE NO. (106956)  
GENERAL LAND OFFICE  
AUSTIN, TEXAS

# 216

THIS AGREEMENT made and entered into by and between the Commissioner of the General Land Office of the State of Texas, whose address is Stephen F. Austin Building, 1700 North Congress, Austin, Texas, 78701, hereinafter called "Lessor", hereunto authorized by the School Land Board, pursuant to the provisions of Chapters 32 and 52 of the Natural Resources Code (hereinafter called N.R.C.), and amendments thereto, and all applicable rules promulgated by the School Land Board and **Henry Petroleum LP**, whose address is **3525 Andrews Highway, Suite 200, Midland, TX 79703** hereinafter called "Lessee".

1. Lessor, in consideration of **Thirteen Thousand Five 00/00 (\$ 1,3005.00)** receipt of which is hereby acknowledged, and of the covenants and agreements of Lessee hereinafter contained, does hereby grant, lease, and let unto Lessee the land covered hereby for the purposes and with the exclusive right of exploring, drilling, mining and operating for, producing and owning oil, gas, and all other hydrocarbons, produced from the land covered hereby. The land covered hereby, herein called "said land" is located in the County of **Glasscock** State of Texas, and is described as follows:

**86.7 acres** of land, more or less, known as, situated in said **Glasscock** County, Texas, more particularly described in Exhibit "A" attached hereto and made a part hereof together with a plat, attached hereto as Exhibit "B", depicting said right-of-way and surrounding area for purposes of illustration only.

For the purpose of determining the amount of any bonus or other payment hereunder, said land shall be deemed to contain **86.7 acres**, whether actually containing more or less, and the above recital of acreage shall be deemed to be the true acreage thereof. Lessor accepts the bonus as lump sum consideration for this lease and all rights and options hereunder.

2. PRIMARY TERM: This lease, which is a "paid up" lease requiring no rentals, shall remain in force for a term of **three (3) years paid-up, from December 5th, 2006** hereinafter called "primary term", and as long thereafter as operations, as hereinafter defined, are conducted upon said land with no cessation for more than ninety (90) consecutive days.

3. ROYALTIES: As royalty Lessee covenants and agrees:

(a) To deliver to the credit of Lessor, in the pipe line to which Lessee may connect its well, the equal **1/4** part of all oil produced and saved by Lessee from said land, or from time to time, at the option of Lessee, to pay Lessor the average posted market price of such **1/4** part of such oil at the wells as of the day it is run to the pipe line or storage tanks, Lessor's interest, in either case, to bear none of the cost of treating oil to render it marketable pipe line oil;

(b) To pay Lessor on gas and casing head gas produced from said land (1) when sold by lessee **1/4** of the amount realized by Lessee, computed at the mouth of the well, or (2) when used by Lessee off said land or in the manufacture of gasoline or other products, the market value, at the mouth of the well, of **1/4** of such gas and casing head gas.

**COPY**



(c) If, at the expiration of the primary term or at any time or times thereafter, there is any well on said land or on lands with which said land or any portion thereof has been pooled, capable of producing oil or gas, and all such wells are shut-in, this lease shall, nevertheless, continue in force as though operations were being conducted on said land for so long as said wells are shut-in, and thereafter this lease may be continued in force as if no shut-in had occurred

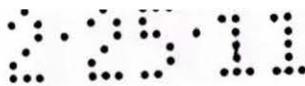
(d) Lessee covenants and agrees to use reasonable diligence to produce, utilize, or market the minerals capable of being produced from said wells, but in the exercise of such diligence, Lessee shall not be obligated to install or furnish facilities other than well facilities and ordinary lease facilities of flow lines, separator, and lease tank, and shall not be required to settle labor trouble or to market gas upon terms unacceptable to Lessee.

(e) If at any time or times after the expiration of the primary term, all such wells are shut-in for a period of ninety consecutive days, and during such time there are no operations on said land, then at or before the expiration of said ninety day period, lessee shall pay or tender, by check of lessee, as royalty, the sum of **\$ 20.00 per acre**. Lessee shall make like payments or tenders at or before the end of each anniversary of the expiration of said ninety day period if upon such anniversary this lease is being continued in force solely by reason of the provisions of this paragraph. Each such payment or tender shall be made to the parties who at the time of payment would be entitled to receive the royalties which would be paid under this lease if the wells were producing. Nothing herein shall impair lessee's right to release as provided in paragraph 5 hereof. In the event of assignment of this lease in whole or in part, liability for payment hereunder shall rest exclusively on the then owner or owners of this lease, severally as to acreage owned by each.

(f) All royalties not taken in kind shall be paid to the Commissioner of the General Land Office at Austin, Texas, in the following manner:

Royalty on oil is due and must be received in the General Land Office on or before the 5th day of the second month succeeding the month of production, and royalty on gas is due and must be received in the General Land Office on or before the 15th day of the second month succeeding the month of production, accompanied by the affidavit of the owner, manager, or other authorized agent, completed in the form and manner prescribed by the General Land Office and showing the gross amount and disposition of all oil and gas produced and the market value of the oil and gas, together with a copy of all documents, records or reports confirming the gross production, disposition and market value including gas meter readings, pipeline receipts, gas line receipts and other checks or memoranda of amount produced and put into pipelines, tanks, or pools and gas lines or gas storage, and any other reports or records which the General Land Office may require to verify the gross production, disposition and market value. In all cases the authority of a manager or agent to act for the Lessee herein must be filed in the General Land Office. Each royalty payment shall be accompanied by a check stub, schedule, summary or other remittance advice showing by the assigned General Land Office lease number the amount of royalty being paid on each lease. If Lessee pays his royalty on or before thirty (30) days after the royalty payment was due, the Lessee owes a penalty of 5% on the royalty or \$25.00, whichever is greater. A royalty payment which is over thirty (30) days late shall accrue a penalty of 10% of the royalty due or \$25.00, whichever is greater. In addition to a penalty, royalties shall accrue interest at a rate of 12% per year; such interest will begin accruing when the royalty is sixty (60) days overdue. Affidavits and supporting documents which are not filed when due shall incur a penalty in an amount set by the General Land Office administrative rule which is effective on the date when the affidavits or supporting documents were due. The Lessee shall bear all responsibility for paying or causing royalties to be paid as prescribed by the due date provided herein. Payment of the delinquency penalty shall in no way operate to prohibit the State's right of forfeiture as provided by law nor act to postpone the date on which royalties were originally due. The above penalty provisions shall not apply in cases of title dispute as to the State's portion of the royalty or to that portion of the royalty in dispute as to fair market value. The State shall have first lien upon all oil and gas produced from the area covered by this lease to secure the payment of all unpaid royalty and other sums of money that may become due to the State hereunder.

4. POOLING: (a) Lessee is hereby granted the right, at its option, to pool or unitize any land covered by this lease with any other land covered by this lease, and/or with any other land, lease, or leases, as to any or all minerals or horizons. Units pooled for oil hereunder shall not exceed 160 acres each in area, and units pooled for gas hereunder shall not exceed in area 640 acres each plus a tolerance often percent (10%) thereof, unless oil or gas units of a greater size are allowed under or prescribed by rules of the Railroad Commission of Texas. A unit established hereunder shall be valid and effective for all purposes of this lease even though there may be mineral, royalty, or leasehold interests in lands within



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the unit, which are not effectively pooled or unitized. Any operations conducted on any part of such unitized land shall be considered, for all purposes, except the payment of royalty, as operations conducted upon said land under this lease. There shall be allocated to the land covered by this lease within each such unit (or to each separate tract within the unit if this lease covers separate tracts within the unit) the proportion of the total production of unitized minerals from the unit, after deducting any used in lease or unit operations, which the number of surface acres in such land (or in each such separate tract) covered by this lease within the unit bears to the total number of surface acres in the unit, and the production so allocated shall be considered for all purposes, including payment or delivery of royalty, overriding royalty and any other payments out of production, to be the entire production of unitized minerals from the land to which allocated in the same manner as though produced there from under the terms of this lease. The owner of the reversionary estate of any term royalty or mineral estate agrees that the accrual of royalties pursuant to this paragraph or of shut-in royalties from a well on the unit shall satisfy any limitation of term requiring production of oil or gas. The formation of any unit hereunder which includes land not covered by this lease shall not have the effect of exchanging or transferring any interest under this lease (including, without limitation, any shut-in royalty which may become payable under this lease) between parties owning interests in land covered by this lease and parties owning interests in land not covered by this lease. Neither shall it impair the right of Lessee to release as provided in paragraph 5 hereof, except that Lessee may not so release as to lands within a unit while there are operations thereon for unitized minerals unless all pooled leases are released as to lands within the unit. At any time while this lease is in force Lessee may dissolve any unit established hereunder by filing for record in the public office where this lease is recorded a declaration to that effect, if at that time no operations are being conducted thereon for unitized minerals. Subject to the provisions of this paragraph 4, a unit once established hereunder shall remain in force for so long as any lease subject thereto shall remain in force. If this lease now or hereafter covers separate tracts, no pooling or unitization of royalty interests as between any such separate tracts is intended or shall be implied or result merely from the inclusion of such separate tracts within this lease but Lessee shall nevertheless have the right to pool or unitize as provided in this paragraph 4 with consequent allocation of production as herein provided. As used in this paragraph 4, the words "separate tract" mean any tract with royalty ownership differing, now or hereafter, either as to parties or amounts, from that as to any other part of the leased premises.

(b) Neither unit production of oil or gas, nor unit operations, nor payment of shut-in royalties from a unit gas well, shall serve to hold the lease in force as to any area outside the unit, regardless of whether the production, maintenance of a shut-in gas well, or operations are actually located on the State tract or not.

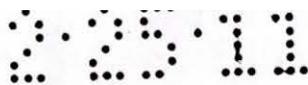
(c) Lessee agrees to file with the General Land Office a copy of any unit designation, which this lease is included within ninety (90) days of such designation.

5. RELEASE: Lessee may relinquish the rights granted hereunder to the State at any time by recording the relinquishment in the county where this area is situated and filing the recorded relinquishment or certified copy of same in the General Land Office within ninety (90) days after its execution accompanied by the prescribed filing fee. Such relinquishment will not have the effect of releasing Lessee from any liability theretofore accrued in favor of the State.

6. REWORK: If at any time or times during the primary term operations are conducted on said land and if all operations are discontinued, this lease shall thereafter terminate at the end of the primary term or on the ninetieth day after discontinuance of all operations, whichever is the later date, unless on such later date either (1) Lessee is conducting operations or (2) the shut-in well provisions of paragraph 3 or the provisions of paragraph 9 are applicable. Whenever used in this lease the word "operations" shall mean operations for and any of the following: drilling, testing, completing, reworking, recompleting, deepening, plugging back or repairing of a well in search for or in an endeavor to obtain production of oil or gas, or production of oil or gas in paying quantities.

7. MINERAL USE: Lessee shall have the use, free from royalty, of oil and gas produced from said land in all operations hereunder.

8. NOTICE: In the event Lessor considers that Lessee has not complied with all its obligations hereunder, both express and implied, Lessor shall notify Lessee in writing, setting out specifically in what respects Lessee has breached this contract. Lessee shall then have sixty (60) days after receipt of said notice within which to meet or commence to meet all



or any part of the breaches alleged by Lessor. The service of said notice shall be precedent to the bringing of any action by Lessor on said lease for any cause, and no such action shall be brought until the lapse of sixty (60) days after service of such notice on Lessee. Neither the service of said notice nor the doing of any acts by Lessee aimed to meet all or any of the alleged breaches shall be deemed an admission or presumption that Lessee has failed to perform all its obligations hereunder. If this lease is canceled for any cause, it shall nevertheless remain in force and effect as to (1) sufficient acreage around each well as to which there are operations to constitute a drilling or maximum allowable unit under applicable governmental regulations, (but in no event less than forty acres), such acreage to be designated by Lessee as nearly as practicable in the form of a square centered at the well, or in such shape as then existing spacing rules require; and (2) any part of said land included in a pooled unit on which there are operations.

9. FORCE MAJEURE: If, while this lease is in force, at, or after the expiration of the primary term hereof, it is not being continued in force by reason of the shut-in well provisions of paragraph 3 hereof, and Lessee is not conducting operations on said land by reason of (1) any law, order, rule or regulation, (whether or not subsequently determined to be invalid) or (2) any other cause, whether similar or dissimilar, (except financial) beyond the reasonable control of Lessee, the primary term shall be extended until the first anniversary date hereof occurring ninety (90) or more days following the removal of such delaying cause, and this lease may be extended thereafter by operations as if such delay had not occurred.

10. LESSER ESTATE CLAUSE: If this lease covers a less interest in the oil or gas in all or any part of said land than the entire and undivided fee simple estate (whether lessors interest is herein specified or not), or no interest therein, then the royalties, and other monies accruing from any part as to which this lease covers less than such full interest, shall be paid only in the proportion which the interest therein, if any, covered by this lease bears to the whole and undivided fee simple estate therein.

11. ASSIGNMENTS: This lease may be transferred at any time. All transfers must reference the lease by file number and must be recorded in the county where the land covered hereby is located, and the recorded transfer or a copy certified to by the County Clerk of the county where the transfer is recorded must be filed in the General Land Office within ninety (90) days of the execution date, as provided by N.R.C. Section 52.026, accompanied by the prescribed filing fee. Every transferee shall succeed to all rights and be subject to all obligations, liabilities, and penalties owed to the State by the original Lessee or any prior transferee of the lease, including any liabilities to the State for unpaid royalties.

12. WELL INFORMATION: Lessee agrees to forthwith furnish Lessor, upon written request, with copies of all drilling logs, electrical logs, cores and core records and other information pertaining to all wells drilled by lessee either on the leased premises or acreage pooled therewith, when requested to do so. Said information shall remain confidential as required by statute.

13. SURFACE: Notwithstanding anything herein to the contrary, it is agreed that Lessee will not conduct any exploration or drilling on the surface of the leased premises or use the surface in the exercise of any rights herein granted. Any development of said land shall be by means of a directional well located off the leased premises, or by pooling of said land with other land, lease or leases as hereinabove provided.

14. COMPENSATORY ROYALTY: Lessee shall pay a compensatory royalty if this lease is not being held by production on the leased premises, by production from a pooled unit, or by payment of shut-in royalties in accordance with the terms of this lease, and if oil or gas is sold or delivered in paying quantities from a well located within 2,500 feet of the leased premises and completed in a producible reservoir underlying the area leased hereunder or in any case in which drainage is occurring. Such compensatory royalty shall be paid at the royalty rate provided in this lease based on the value of production from the well as provided in the lease on which such well is located. The compensatory royalty shall be paid in the same proportion that the acreage of this lease has to the acreage of the proration unit surrounding the draining well plus the acreage of this lease. The compensatory royalty shall be paid monthly to the Commissioner of the General Land Office on or before the last day of the month after the month in which the oil or gas is sold and delivered from the well

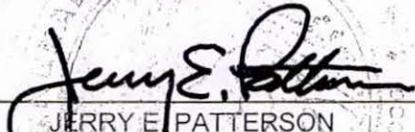
22511

BOOK 0098 PAGE 690

causing the drainage or from the well located within 2500 feet of the leased premises and completed in a producible reservoir under this lease. Notwithstanding anything herein to the contrary, compensatory royalty payable hereunder shall be no less than an amount equal to \_\_\_\_\_ and shall maintain this lease in effect for so long as such payments are made as provided herein.

15. **FORFEITURE:** If Lessee shall fail or refuse to make payment of any sum within thirty (30) days after it becomes due, or if Lessee or an authorized agent should knowingly make any false return or false report concerning production or drilling, or if Lessee shall fail or refuse to drill any offset well or wells in good faith as required by law and the rules and regulations adopted by the Commissioner of the General Land Office, or if Lessee should fail to file reports in the manner required by law or fail to comply with rules and regulations promulgated by the General Land Office, or refuse the proper authority access to the records pertaining to operations, or if Lessee or an authorized agent should knowingly fail or refuse to give correct information to the proper authority, or knowingly fail or refuse to furnish the General Land Office a correct log of any well, or if this lease is pooled or assigned and the unit designation or assignment is not filed in the General Land Office as required by law, the rights acquired under this lease shall be subject to forfeiture by the Commissioner, and he shall forfeit same when sufficiently informed of the facts which authorize a forfeiture, and when forfeited the area shall again be subject to lease. However, nothing herein shall be construed as waiving the automatic termination of this lease by operations of law or by reason of any special limitation arising hereunder. Forfeitures may be set aside and this lease and all rights there under reinstated before the rights of another intervene upon satisfactory evidence to the Commissioner of the General Land Office of future compliance with the provisions of the law and of this lease and the rules and regulations that may be adopted relative hereto.

IN TESTIMONY WHEREOF, witness the signature of the Commissioner of the General Land Office of the State of Texas under the seal of the General Land Office.

  
\_\_\_\_\_  
JERRY E. PATTERSON  
COMMISSIONER, GENERAL LAND OFFICE

Approved:

ML: DR  
DC: CLR  
CC:

22911

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**METES AND BOUNDS DESCRIPTION of  
11.38 Acres in State Highway #158  
Right-of-Way out of  
Section 17, Block 33, T-4-S,  
T. & P. RR. Co.,  
Glasscock County, Texas**

*Beginning at a point on the north line of Section 17, Block 33, T-4-S, T. & P. RR. Co. and in the southwest right-of-way of State Highway #158, for the most northwesterly corner of this tract, from which the calculated northwest corner of said Section 17 bears S 76°27'10" W 1432.53 feet;*

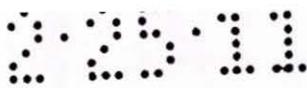
*Thence N 76°27'10" E, with the north line of said Section 17, 281.29 feet to a point on the north line of said Section 17 and in the northeast right-of-way of State Highway #158, for the most northeasterly corner of this tract;*

*Thence S 78°17'42" E, with the northeast right-of-way of State Highway #158, 3976.00 feet to a point on the east line of said Section 17 and in the northeast right-of-way of State Highway #158, for the most southeasterly corner of this tract;*

*Thence S 14°23'16" E, with the east line of said Section 17, 133.62 feet to a point on the east line of said Section 17 and in the southwest right-of-way of State Highway #158, for the most southwesterly corner of this tract;*

*Thence N 78°17'42" W, with the southwest right-of-way of State Highway #158, 4289.18 feet to the point of beginning.*

**COPY**



**METES AND BOUNDS DESCRIPTION of**  
75.32 Acres in State Highway #158  
Right-of-Way out of  
Block 33, T-4-S, & Block 32, T-4-S,  
T. & P. RR. Co.,  
Glasscock County, Texas

*Beginning at Highway Station 264-65, a point on the west line of Section 23, Block 33, T-4-S, T. & P. RR. Co., and on the centerline of State Highway #158, from which the calculated northwest corner of said Section 23 bears N 14°26'00" W 1824.00 feet;*

*Thence N 14°26'00" W, with the west line of said Section 23, 66.65 feet to a point on the west line of said Section 23 and in the north right-of-way of State Highway #158 for the most northwesterly corner of this tract;*

*Thence S 78°37'00" E, with the north right-of-way of State Highway #158, 5941.13 feet to the point of curvature of a circular curve to the right;*

*Thence around said curve, whose central angle is 21°35', a distance of 2180.94 feet to the point of tangency of said curve;*

*Thence S 57°02'00" E, with the northeast right-of-way of State Highway #158, 55.41 feet pass the north line of Section 25, Block 33, T-4-S, T. & P. RR. Co., 3695.05 feet pass the east line of said Section 25, a total distance of 11888.79 feet to a point in the northeast right-of-way of State Highway #158;*

*Thence S 56°17'00" E, with the northeast right-of-way of State Highway #158, 7314.02 feet to a point on the east line of Section 41, Block 32, T-4-S, T. & P. RR. Co. and in the northeast right-of-way of State Highway #158 for the most northeasterly corner of this tract;*

*Thence S 14°26'00" E, with the east line of said Section 41, 179.86 feet to a point on the east line of said Section 41 and in the southwest right-of-way of State Highway #158, for the most southeasterly corner of this tract;*

*Thence N 56°17'00" W, with the southwest right-of-way of State Highway #158, 7447.99 feet to a point in the southwest right-of-way of State Highway #158;*

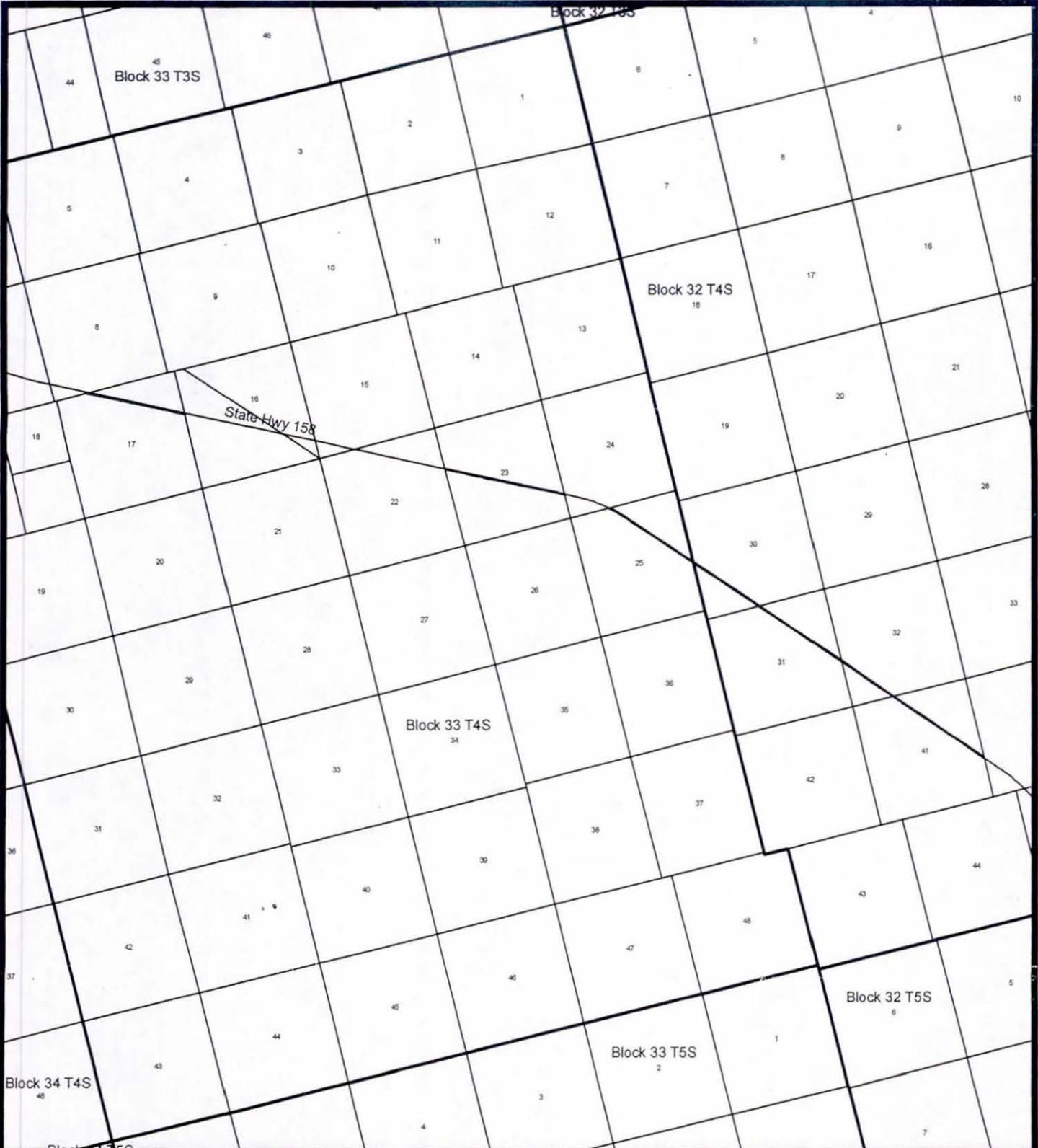
*Thence N 57°02'00" W, with the southwest right-of-way of State Highway #158, 8061.06 feet pass the east line of said Section 25, a total distance of 11887.21 feet to the point of curvature of a circular curve to the left;*

*Thence around said curve, whose central angle in 21°35', a distance of 2135.73 feet to the point of tangency of said curve;*

*Thence N 78°37'00" W, with the south right-of-way of State Highway #158, 5883.07 feet to a point on the west line of said Section 23 and in the south right-of-way of State Highway #158, for the most southwesterly corner of this tract;*

*Thence N 14°26'00" W, with the west line of Section 23, 66.65 feet to the point of beginning.*

**LESS & EXCEPT approximately 6.2 Acres out of Section 24, Block 33, T-4-S, T. & P. RR. Co., Glasscock County.**



Map Showing  
 A portion US Highway 158  
 86.7 acres  
 Approximately 5 miles west of Big Spring  
 Glasscock County  
 ft12-06

NAD\_1927\_Albers  
 Projection: Albers  
 False\_Easting: 0.000000  
 False\_Northing: 0.000000  
 Central\_Meridian: -100.000000  
 Standard\_Parallel\_1: 28.000000  
 Standard\_Parallel\_2: 35.000000  
 Latitude\_Of\_Origin: 31.000000

GCS\_North\_American\_1927  
 0 3,000 6,000 Feet



The Texas General Land Office  
 makes no representations or  
 warranties regarding the accuracy  
 or completeness of the information  
 depicted on the map or the data  
 from which it was produced.  
 This map is NOT suitable for  
 navigational purposes and does  
 not purport to depict or establish  
 boundaries between private  
 and public land.



Map Compiled By:  
 Ferrel Taylor  
 Information Systems - GIS  
 December 5, 2006

FILED

AT 10:00 O'CLOCK PM  
ON THE 29 DAY OF December  
A.D., 2006  
INS. NO. 216

STATE OF TEXAS  
COUNTY OF GLASSCOCK

I hereby certify that this instrument was FILED on the date and at the time stamped hereon by me and was duly RECORDED in the Volume and Page of the named RECORDS of Glasscock County, Texas, as stamped hereon by me.



*Rebecca Batla*

County Clerk, Glasscock County, Texas

*Rebecca Batla*

COUNTY CLERK, GLASSCOCK COUNTY, TEXAS

OFFICIAL PUBLIC RECORDS

VOL. 98 PAGE 686

BY *Suzie Hilliges* DEPUTY

RECORDED December 29, 2006

*JULIA E. BISHOP*  
*CLERK*

6.

File No. DF112153

Lease

Date Filed: 2/25/11

Jerry E. Patterson, Commissioner

By [Signature]

503

TEXAS



GENERAL LAND OFFICE

JERRY PATTERSON, COMMISSIONER

April 21, 2011

Mr. Joe Britt Dutton  
Concho Operating, LLC  
550 West Texas Ave., Suite 1300  
Midland, TX 79701

**Dear Mr. Dutton,**

Re: State of Texas HROW Lease # MF 112153

Enclosed you will find an original executed Highway Right-of-Way lease in Glasscock County.

**Please proof read the lease before filing of record and refer to this lease number with all correspondence.**

**Please have your client provide the GLO with a copy of the recorded Unit Designation for this lease.**

If you have any questions please feel free to contact my direct phone number, or email address listed below, or contact George Martin at his direct number (512) 475-1512.

Best regards,

Beverly Boyd  
Energy Resources  
Mineral Leasing  
512-463-6521  
beverly.boyd@glo.state.tx.us

**COPY**

Stephen F. Austin Building • 1700 North Congress Avenue • Austin, Texas 78701-1495

Post Office Box 12873 • Austin, Texas 78711-2873

512-463-5001 • 800-998-4GLO

[www.glo.state.tx.us](http://www.glo.state.tx.us)

Y903  
COBA

7.

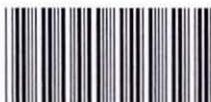
File No. MF 112453

Stop letter

Date Filed: 4/21/11

Jerry E. Patterson, Commissioner

By JL



### DIVISION ORDER

To: Plains Marketing L.P.  
P.O. Box 4648  
Houston, TX 77210-4648

Date: 08/03/2011  
Property Descr: SEE EXHIBIT 'A'  
Effective 7 A.M.: 06/01/2011  
Decimal Interest: 0.00094552  
Type of Interest: RI  
ROYALTY INTEREST

Owner Number  
**0062639**  
Property Number:  
**01 178675**

Property Name: CURRIE #2508  
Operator: COG OPERATING LLC  
County and State: GLASSCOCK, TX  
Production: OIL / CONDENSATE ( GAS )

Owner Name and Address: COMMISSIONER GENERAL LD OFFICE  
STATE OF TEXAS  
1700 NORTH CONGRESS AVENUE  
AUSTIN, TX 78701

COMMISSIONER GENERAL LD OFFICE  
STATE OF TEXAS  
1700 NORTH CONGRESS AVENUE  
AUSTIN, TX 78701

MF 112153  
UNIT# 5160

[Correspondence Address]

[Remittance Address]

The undersigned severally and not jointly certifies the ownership of their decimal interest in production or proceeds as described above payable by Plains Marketing, L.P. (hereinafter called "Payor").

Payor shall be notified, in writing, of any change in ownership, decimal interest, or payment address. All such changes shall be effective the first day of the month following receipt of such notice.

Payor is authorized to withhold payment pending resolution of a title dispute or adverse claim asserted regarding the interest in production claimed herein by the undersigned. The undersigned agrees to reimburse Payor any amount attributable to an interest to which the undersigned is not entitled. Unless otherwise required by law, Payor shall not be required to pay interest on payments withheld due to a title dispute or adverse claim.

Payments of less than \$25.00 may be accrued before disbursement until the total amount equals \$25.00 or more, or until December 31 of each year, whichever occurs first.

This Division Order does not amend any lease or operating agreement between the undersigned and the lessee or operator or any other contracts for the purchase of oil or gas.

The undersigned will be paid in accordance with the division of interests set out above. As to oil and/or condensate, the Payor shall pay all parties at the price agreed to by the operator for oil and/or condensate to be sold pursuant to this division order. Payor shall compute quantity and make corrections for gravity and temperature and make deductions for impurities. As to gas, the undersigned will be paid in accordance with the division of interest set forth herein. The Payor will pay all parties for their respective interest in the gas proceeds paid to Payor by the operator for disbursement at the price and upon the terms agreed to by the operator for the gas marketed by the operator. Payor is a disbursement service provider only and does not purchase the gas nor take title to the gas. The operator is responsible for marketing gas produced from the property described in the attached property description. Payor does not assume any obligations of the lessee or operator under any oil and gas lease, gas sales contract or other agreement to which Payor is not a party.

In addition to the terms and conditions of this Division Order, the undersigned and Payor may have certain statutory rights under the laws of the state in which the property is located.

Special Clauses/Requirements: If applicable, see Exhibit 'A'.

Owner Social Security # or Taxpayer ID #: 74-6000108  
Owner Daytime Telephone #: \_\_\_\_\_  
Owner FAX #: \_\_\_\_\_  
Email Address: \_\_\_\_\_

Owner BY: \_\_\_\_\_  
Signature: OWNER #: 0062639  
TITLE: \_\_\_\_\_

Signature of two Witnesses/Attest \_\_\_\_\_  
\_\_\_\_\_

FEDERAL LAW REQUIRES YOU TO FURNISH YOUR SOCIAL SECURITY OR TAXPAYER IDENTIFICATION NUMBER. FAILURE TO COMPLY WILL RESULT IN 28% TAX WITHHOLDING AND WILL NOT BE REFUNDABLE BY PAYOR.



( DO NOT DETACH FROM PAGE ONE OF DIVISION ORDER )

**EXHIBIT 'A'**

**PROPERTY NUMBER: 01 178675**

**OWNER: 0062639**

OWNER	NAME/ADDRESS	SSN/TIN	INTEREST	TYPE	PAY ST	EFFECTIVE	CLAUSES	REQUIREMENTS
0062639	COMMISSIONER GENERAL LD OFFICE STATE OF TEXAS 1700 NORTH CONGRESS AVENUE AUSTIN, TX 78701	74-6000108	0.00094552	RI	3U	06/01/2011	1	N/A

**CLAUSES**

- 1 EFFECTIVE WITH JUNE 2011 PRODUCTION, PLAINS MARKETING, L.P. WAS DESIGNATED AS OIL PURCHASER FOR THE CURRIE #2508 LEASE BY THE OPERATOR, COG OPERATING LLC. THIS DIVISION ORDER WAS PREPARED BASED ON INFORMATION PROVIDED BY THE OPERATOR.

**LEGAL DESCRIPTION**

SE/4 SECTION 25, BLOCK 33, T-4-S, T&P RY. CO. SURVEY  
GLASSCOCK COUNTY, TEXAS

# GAS DIVISION ORDER

Property Number: 424211.2508.1  
 Property Name: CURRIE STATE #2508 MF 112153

Date Prepared: 8/19/2011  
 Effective Date: Date of Last Settlement

Operator: COG OPERATING LLC  
 County/State: Glasscock, TX  
 Property Description: SE/4 of SE/4, Sec. 25, Blk 33, T-4-S, T&P RR Survey  
 Production: Oil  Gas  Other

<b>Owner Name:</b>	GENERAL LAND OFFICE	<b>Owner Number:</b>	001523
<b>Address:</b>	1700 N. CONGRESS AVENUE STE 935	<b>Type of Interest:</b>	RI
	AUSTIN, TX 78701-1495		
<b>Phone #:</b>	512-463-5001	<b>Interest:</b>	0.00094550

The undersigned certifies the ownership of their decimal in production or proceeds as described above payable by (Payor).

COG OPERATING, LLC

Payor shall be notified, in writing, of any change in ownership, decimal interest, or payment address. All such changes shall be effective the first day of the month following receipt of such notice.

Payor is authorized to withhold payment pending resolution of a title dispute or adverse claim asserted regarding the interest in production claimed herein by the undersigned.

The undersigned agrees to indemnify and reimburse Payor any amount attributable to an interest to which the undersigned is not entitled.

Payor may accrue proceeds until the total amount equals \$ 25.00, or pay annually, whichever occurs first, or as required by applicable state statutes.

This Division Order does not amend any lease or operating agreement between the undersigned and the lessee or operator or any other contracts for the purchase of oil or gas.

In addition to the terms and conditions of this Division Order, the undersigned and Payor may have certain statutory rights under the laws of the state in which the property is located.

	Witness:
Owner(s) Signature: _____	
Owner(s) Tax ID/SS No.: _____	
Owner(s) Daytime Telephone No: _____	
Owner(s) FAX Telephone No.: _____	

**IMPORTANT: TO AVOID DELAY IN PAYMENT, YOUR SOCIAL SECURITY NUMBER OR TAX IDENTIFICATION NUMBER MUST BE SHOWN ABOVE. FAILURE TO FURNISH YOUR SOCIAL SECURITY NUMBER OR TAX IDENTIFICATION NUMBER WILL RESULT IN 28% WITHHOLDING TAX IN ACCORDANCE WITH FEDERAL LAW AND ANY TAX WITHHELD WILL NOT BE REFUNDABLE BY PAYOR. BE SURE YOUR SIGNATURE IS WITNESSED AND YOUR CORRECT ADDRESS IS SHOWN.**



**KEEP THIS COPY  
FOR YOUR FILE**

File No. 112153

DO-Curie #2508

Date Filed: 8-24-11

Jerry E. Patterson, Commissioner

By B. Boyd

(KB)

0511

**DO NOT DESTROY**



**Texas General Land Office**  
**UNIT AGREEMENT MEMO**

PA11-236

*Unit Number* 5160  
*Operator Name* COG OPERATING LLC *Effective Date* 8/6/2011  
*Customer ID* C000044811 *Unitized For* Oil+ Gas  
*Unit Name* Currie State #2508 *Unit Term* 0 Months  
*County1* Glasscock  
*County 2* Old Unit Number Inactive Status Date  
*County 3* 0  
*RRC District:* 08 0  
*Unit Type:* Permanent 0  
*State Royalty Interest:* 0.0009454950 0  
*State Part in Unit:* 0.0037819800  
*Unit Depth* All *Well:* Unit  
*Below Depth* 0 *Formation:* Wolfcamp  
*Above Depth* 0 *Participation Basis:* Surface Acreage  
[If Exclusions Apply: See Remarks]

*MF Number* MF112153 *Tract Number* 2  
*Lease Acres* 0.51 / *Total Unit Acres* 134.85 =  
*Tract Participation:* 0.0037820 X  
*Lease Royalty* 0.25 = *Manual Tract Participation:* [ ] 0 | See Remark  
*Tract Royalty Participation* 0.0009455 *Manual Tract Royalty:* [ ] 0 |

*Tract Royalty Reduction* No  
*Tract Royalty Rate* 0  
*Tract On-Line Date:*

API Number

421733406900

RRC Number

0

Remarks:

HROW Unit - Oil well - Wolfcamp

Prepared By:

B. Boyd

Prepared Date:

8/25/11

GLO Base Updated By:

B. Boyd

GLOBase Date:

8/25/11

RAM Approval By:

JK

RAM Approval Date:

9/9/2011

GIS By:

ZG

GIS Date:

9-14-2011

DESIGNATION OF POOLED UNIT

# 7724

**COG Operating LLC  
Currie State #2508 Pooled Unit  
Glasscock County, Texas**

This Designation of Pooled Unit is made and entered into effective as of April 6, 2011, by and between the undersigned owners of the entire leasehold estate created under the oil and gas leases described in Exhibit "A" hereof which embrace the lands in Glasscock County, Texas which are described in Exhibit "A" hereof.

## WITNESSETH:

1. Each of said oil and gas leases embraces a portion of the lands within the pooled unit and collectively embrace the entire pooled unit; and each such lease authorizes the lessee therein to pool, unitize, or combine a portion of the lands covered thereby so as to form this unit.
2. The owners of said oil and gas leases do hereby pool the oil and gas leases described in Exhibit "A" hereof (INSOFAR, but only insofar, as said oil and gas leases cover and affect lands lying within the unit area).
3. The unit area ("said unit") shall consist of all of the SE/4 of Section 25, Block 33, T-4-S, T&P Ry. Co. Survey, Glasscock County, Texas, which contains 134.85 acres, more or less. Said unit includes all depths and formations.
4. The owners of said oil and gas leases hereby commit to said unit all of their interest of whatsoever nature in said oil and gas leases, as amended or ratified, for the drilling and production of oil, gas, condensate, casinghead gas and other hydrocarbons hereinafter at times referred to as "pooled mineral."
  - (a) Said unit shall be operated as an entirety for the exploration, development, and production of the pooled mineral, rather than as separate tracts.
  - (b) All drilling operations, reworking or other operations on said unit shall be considered as though the same were on each separate tract in said unit, regardless of the actual location of the well or wells thereon, for all purposes under the terms of the respective leases or other contracts thereon and this agreement.
  - (c) Production of the pooled mineral from said unit allocated to each separate tract, respectively, as hereinafter provided, shall be deemed to have been produced from each separate tract in the unit, regardless of the actual location of the well or wells thereon, for all purposes under the terms of the respective leases or other contracts thereon and this agreement.
  - (d) All rights to the production of the pooled mineral from said unit, including royalties and other payments, shall be determined and governed by the lease or other contract pertaining to each separate tract, respectively, based upon the production so allocated to such tract only, and in lieu of the actual production of the pooled mineral therefrom.
5. Production from said unit will be allocated proportionately among all tracts within said unit in the proportion that the number of surface acres in each tract bears to the total number of surface acres in said unit.
6. The undersigned owners of the oil and gas leases expressly reserve the right, from to time, to amend this Designation of Pool Unit, and the respective terms and provisions thereof, and to change the size and area of, and interests covered by said unit as described herein, including, without limitation, the power (a) to change, reduce, enlarge or extend the size or configuration of said unit; (b) to include or exclude any formation or formations and any mineral or minerals therein, thereunder or produced therefrom; and (c) to include in said unit any oil, gas and mineral leases or other interests lying within said unit which may be secured or obtained subsequent to the effective date hereof and not included initially.

7. The undersigned owners of the oil and gas leases herein may dissolve said unit at any time by an instrument filed for record in Glasscock County, Texas.

8. This Designation of Pooled Unit shall be binding upon each of the signatory parties hereto, their respective heirs, successors and assigns.

9. This Designation of Pooled Unit may be executed in counterpart, each of which shall be considered an original, and the counterpart signature pages and accompanying acknowledgements may be detached and re-attached for ease of recordation.

IN WITNESS WHEREOF, the parties hereto have executed this agreement upon the respective dates of their acknowledgments.

**Owners of Leases 1 & 2:**

**COG Operating LLC**

**Chevron Midcontinent, L.P.**  
by **Chevron Midcontinent Operations LLC,**  
its **General Partner**

By *Gregory K. Daggett*  
Gregory K. Daggett  
Attorney-In-Fact

By *D. K. Beckham*  
D. K. Beckham  
Attorney-in-Fact

**Baqash Resources LP**  
By: **Baqash Resources Management LLC.**  
General Partner

**Tekar Tech, L.P.**  
By: **TCB Management, LLC.**  
General Partner

*Damian G. Barrett*  
Damian G. Barrett, Manager

*Terence Craig Byrkes*  
Terence Craig Byrkes, President

**L & K Gates Resources LP**

**Salt & Light Corporation**

By *Lawrence C. Gates*  
Lawrence C. Gates, Manager

By \_\_\_\_\_  
Clay Sullivan, President

*Kathrin A. Lewis*  
Kathrin A. Lewis

*Sharon F. Temple*  
Sharon F. Temple

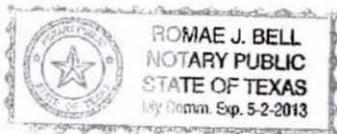
**ACKNOWLEDGMENTS**

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was acknowledged before me on 7<sup>th</sup> day of June, 2011, by **GREGORY K. DAGGETT**, as Attorney-in-Fact of **COG OPERATING LLC**, a Delaware limited partnership, on behalf of said limited partnership.

*Romae J. Bell*  
Notary Public, State of Texas



7. The undersigned owners of the oil and gas leases herein may dissolve said unit at any time by an instrument filed for record in Glasscock County, Texas.

8. This Designation of Pooled Unit shall be binding upon each of the signatory parties hereto, their respective heirs, successors and assigns.

9. This Designation of Pooled Unit may be executed in counterpart, each of which shall be considered an original, and the counterpart signature pages and accompanying acknowledgements may be detached and re-attached for ease of recordation.

IN WITNESS WHEREOF, the parties hereto have executed this agreement upon the respective dates of their acknowledgments.

**Owners of Leases 1 & 2:**

**COG Operating LLC**

**Chevron Midcontinent, L.P.**  
by Chevron Midcontinent Operations LLC,  
its General Partner

By *Gregory K. Daggett*  
Gregory K. Daggett  
Attorney-In-Fact

By \_\_\_\_\_  
D. K. Beckham  
Attorney-in-Fact

**Baqash Resources LP**  
By: Baqash Resources Management LLC.  
General Partner

**Tekar Tech, L.P.**  
By: TCB Management, LLC.  
General Partner

*Damian G. Barrett*  
Damian G. Barrett, Manager

*Terence Craig Byrkes*  
Terence Craig Byrkes, President

**L & K Gates Resources LP**

**Salt & Light Corporation**

By *Lawrence C. Gates*  
Lawrence C. Gates, Manager

By *Clay Sullivan*  
Clay Sullivan, President

*Kathrin A. Lewis*  
Kathrin A. Lewis

\_\_\_\_\_  
Sharon F. Temple

**ACKNOWLEDGMENTS**

STATE OF TEXAS  
COUNTY OF MIDLAND

This instrument was acknowledged before me on 7<sup>th</sup> day of June, 2011, by **GREGORY K. DAGGETT**, as Attorney-in-Fact of **COG OPERATING LLC**, a Delaware limited partnership, on behalf of said limited partnership.

*Romae J. Bell*  
Notary Public, State of Texas



STATE OF TEXAS  
COUNTY OF MIDLAND

This instrument was acknowledged before me on 14<sup>th</sup> day of JUNE, 2011, by **D. K. Beckham**, as Attorney-in-Fact for Chevron Midcontinent Operations LLC, a Delaware limited liability company, as General Partner of **CHEVRON MIDCONTINENT, L.P.**, a Texas limited partnership, on behalf of said limited partnership.

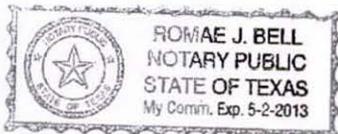


*Jessica Sanchez*  
Notary Public, State of Texas

My commission expires:  
5/5/15

STATE OF TEXAS  
COUNTY OF MIDLAND

This instrument was acknowledged before me on 7<sup>th</sup> day of June, 2011, by **TERENCE CRAIG BURKES**, as President of TCB Management, LLC, a Texas limited liability company, as General Partner of **TEKAR TECH, L.P.**, a Texas limited partnership, on behalf of said limited partnership.



*Romae J. Bell*  
Notary Public, State of Texas

STATE OF TEXAS  
COUNTY OF MIDLAND

This instrument was acknowledged before me on 7<sup>th</sup> day of June, 2011, by **DAMIAN G. BARRETT**, as Manager for Baqash Resources Management LLC, a Texas limited liability company, as General Partner of **BAQASH RESOURCES LP**, a Texas limited partnership, on behalf of said limited partnership.



*Romae J. Bell*  
Notary Public, State of Texas

STATE OF TEXAS  
COUNTY OF MIDLAND

This instrument was acknowledged before me on 7<sup>th</sup> day of June, 2011, by **LAWRENCE C. GATES**, as Manager of **L & K GATES RESOURCES LP**, a Texas limited partnership, on behalf of said partnership.



*Romae J. Bell*  
Notary Public, State of Texas

STATE OF TEXAS  
COUNTY OF MIDLAND

This instrument was acknowledged before me on \_\_\_\_\_ day of \_\_\_\_\_, 2011,  
by **CLAY SULLIVAN**, President of **SALT & LIGHT CORPORATION**, a Texas corporation  
on behalf of said corporation.

\_\_\_\_\_  
Notary Public, State of Texas

My commission expires:  
\_\_\_\_\_

STATE OF TEXAS  
COUNTY OF MIDLAND

This instrument was acknowledged before me on 7<sup>th</sup> day of June, 2011,  
by **KATHRIN A. LEWIS**.

*Romae J. Bell*  
Notary Public, State of Texas

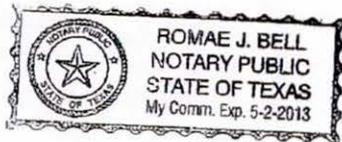


STATE OF TEXAS  
COUNTY OF MIDLAND

This instrument was personally acknowledged before me on 7<sup>th</sup> day of June,  
2011, by **SHARON F. TEMPLE**.

*Romae J. Bell*  
Notary Public, State of Texas

My commission expires:  
\_\_\_\_\_



Oklahoma  
STATE OF TEXAS  
Tulsa  
COUNTY OF MIDLAND

BOOK 170 PAGE 061

This instrument was acknowledged before me on 22nd day of June, 2011,  
by **CLAY SULLIVAN**, President of **SALT & LIGHT CORPORATION**, a Texas corporation  
on behalf of said corporation.

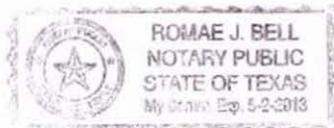


Sara P. Blair  
Notary Public, State of ~~Texas~~  
Oklahoma

My commission expires:  
09/15/2014

STATE OF TEXAS  
COUNTY OF MIDLAND

This instrument was acknowledged before me on 7<sup>th</sup> day of June, 2011,  
by **KATHRIN A. LEWIS**.



Romae J. Bell  
Notary Public, State of Texas

STATE OF TEXAS  
COUNTY OF MIDLAND

This instrument was personally acknowledged before me on \_\_\_\_ day of \_\_\_\_\_,  
2011, by **SHARON F. TEMPLE**.

\_\_\_\_\_  
Notary Public, State of Texas

My commission expires:  
\_\_\_\_\_

**EXHIBIT "A"**  
**DESIGNATION OF POOLED UNIT**

**COG Operating LLC**  
**Currie State #2508 Pooled Unit**  
**Glasscock County, Texas**

**Description of Pooled Unit**

**Currie State 2508 Unit**

SE/4 of Section 25, Block 33, Township 4 South, T & P Ry. Co. Survey, A-157, Glasscock County, Texas containing 134.85 acres, more or less:

**Tract No. 1**

A tract of land containing 134.34 acres, more or less, being all of SE/4 of Section 25, Block 33, Township 4 South, T & P Ry. Co. Survey, A-157, SAVE AND EXCEPT 0.51 acres, more or less, being the right-of-way of State Highway 158, as shown on the attached plat.

**Tract No. 2**

A tract of land containing 0.51 acres, more or less, out of SE/4 of Section 25, Block 33, Township 4 South, T&P Ry. Co. Survey, being a portion of the right-of-way of State Highway 158, as shown on, and as described by metes and bounds on, the attached plat.

**Leases Committed to Pooled Unit:**

**Lease No. 1**

Lessor: Jerry Jon Currie; William Neel Currie; Gerald W. Currie, Trustee U/W/O Diana Lu Currie Nichols fbo Natalie Nichols; John A. Currie, Trustee of the Laura Ratliff Huitt 1975 Trust; Laura Maud Ratliff Huitt; Broadway Broadrick, Trustee for Diana Lu Currie Nichols 1975 Trust, the Jerry Jon Currie 1975 Trust, and the William Neel Currie 1975 Trust.

Lessee: Henry Petroleum LP

Date: February 7, 2005

Recording: Volume 84, Page 813 of Official Public Records of Glasscock County, Texas

Description: Insofar as and only insofar as said lease covers Tract 1 described above.

**Lease No. 2**

Lessor: Commissioner of the General Land Office of the State of Texas  
Texas General Land Office Lease No. (MF 112153)

Lessee: COG Operating LLC

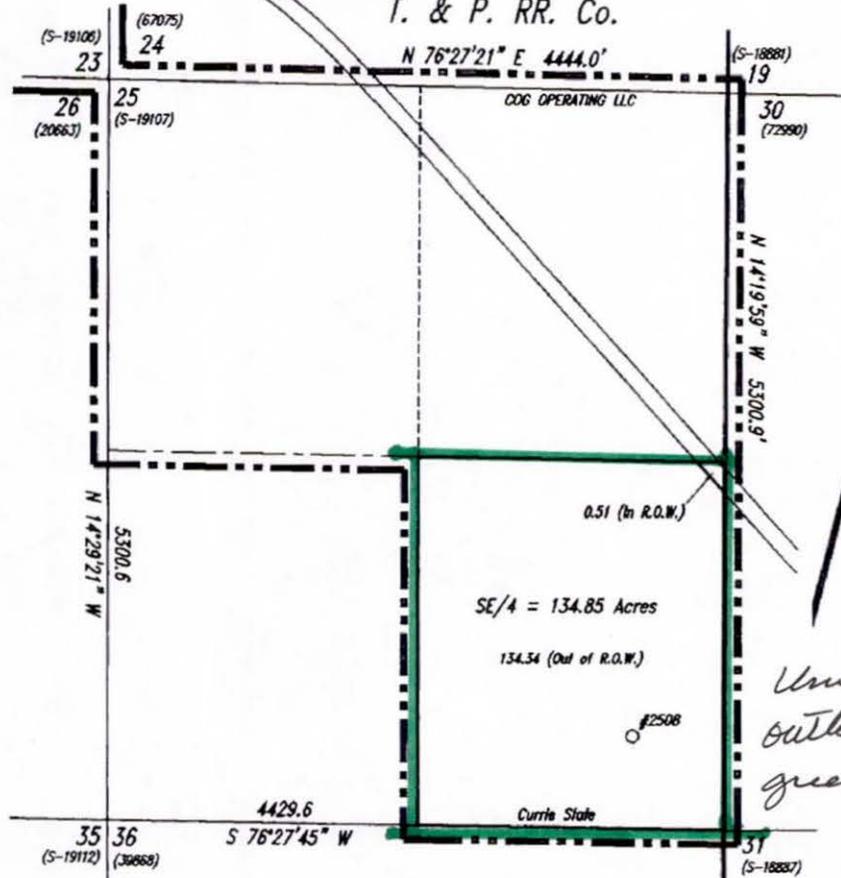
Date: April 5, 2011

Recording: Volume 166, Page 148 of Official Public Records of Glasscock County, Texas

Description: Insofar as and only insofar as said lease covers Tract 2 described above.

End of Exhibit "A" to Currie State #2508 Pooled Unit - Designation of Pooled Unit

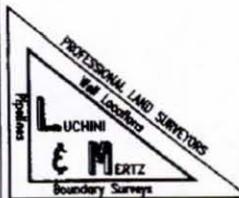
Block 33, T-4-S  
T. & P. RR. Co.



METES AND BOUNDS DESCRIPTION of  
A 0.51 Acre Tract out of  
the SE/4 of Section 25,  
Block 33, T-4-S, T. & P. RR. Co.,  
Glasscock County, Texas

Beginning of a point on the east line of Section 25, Block 33, T-4-S, T. & P. RR. Co. and in the southwest right-of-way of Highway 158, for the most southeasterly corner of this tract, from which the calculated southeast corner of said Section 25 bears S 14°19'59" E 2426.85 feet;  
Thence N 56°42'34" W, with the southwest right-of-way of Highway 158, 306.53 feet to a point on the north line of the southeast quarter (SE/4) of said Section 25 for the most northeasterly corner of this tract;  
Thence N 76°27'33" E, with the north line of the southeast quarter (SE/4) of said Section 25, 164.53 feet to a point on the north line of the southeast quarter (SE/4) of said Section 25 and in the northeast right-of-way of Highway 158 for the most northerly northeast corner of this tract;  
Thence S 56°42'34" E, with the northeast right-of-way of Highway 158, 62.44 feet to a point on the east line of said Section 25 and in the northeast right-of-way of Highway 158 for the most easterly northeast corner of this tract;  
Thence S 14°19'59" E, with the east line of said Section 25, 178.04 feet to the point of beginning.

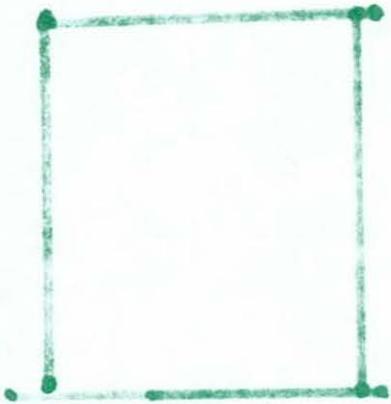
Note: Survey reconstruction filed in the Office of Luchini and Mertz Land Surveying Company.  
Note: All bearings and coordinates shown are based on the Texas Coordinate System of 1927, Central Zone.  
A combined grid factor of 0.999866179 must be divided into Section Line distances to obtain a true horizontal distance.  
Note: Example: (S-99999) indicates General Land Office file number.



March 10, 2011  
1103100HA

Plot  
COG OPERATING LLC  
0.51 Acre Tract out of  
the SE/4 of Section 25,  
Block 33, T-4-S  
T. & P. RR. Co.  
Glasscock County, Texas

Scale: 1" = 1000'



Handwritten text in Braille, consisting of several lines of characters.



**FILED**  
 AT 8:00 O'CLOCK A. M.  
 ON THE 5 DAY OF July  
 A.D., 2011  
 INS. NO. 7724

Rebecca Batla  
 COUNTY CLERK, GLASSCOCK COUNTY, TEXAS  
 BY Antonia Jones DEPUTY

STATE OF TEXAS  
 COUNTY OF GLASSCOCK

I hereby certify that this instrument was FILED on the date and at the time stamped hereon by me and was duly RECORDED in the Volume and Page of the named RECORDS of Glasscock County, Texas, as stamped hereon by me.



Rebecca Batla  
 County Clerk, Glasscock County, Texas

OFFICIAL PUBLIC RECORDS

VOL. 170 PAGE 056  
 RECORDED July 5, 2011

**From:** Romae Bell <rbell@concho.com>  
**To:** ""beverly.boyd@glo.state.tx.us"" <beverly.boyd@glo.state.tx.us>  
**Date:** 8/12/2011 1:29 PM  
**Subject:** FW: Designation of Pooled Unit/Gas Division Order  
**Attachments:** Doc1.pdf

Hi Beverly:

As per our telephone conversation yesterday, attached is the fully executed recorded Designation of Pool Unit and Gas Division Order in reference to the Currie State #2508 well. This well covers the SE/4 of SE/4 of Section 25, Block 33, T-4-S, T&P RR. Co. Survey, Glasscock County, Texas.

Please sign and return the attached Gas Division Order to the attention of Karin Parker, COG Operating LLC, 550 West Texas, Suite 100, Midland, TX 79701

Should you have any questions or need additional information, please feel free to contact me at 432.818-2203. Thank you so much for taking care of this.

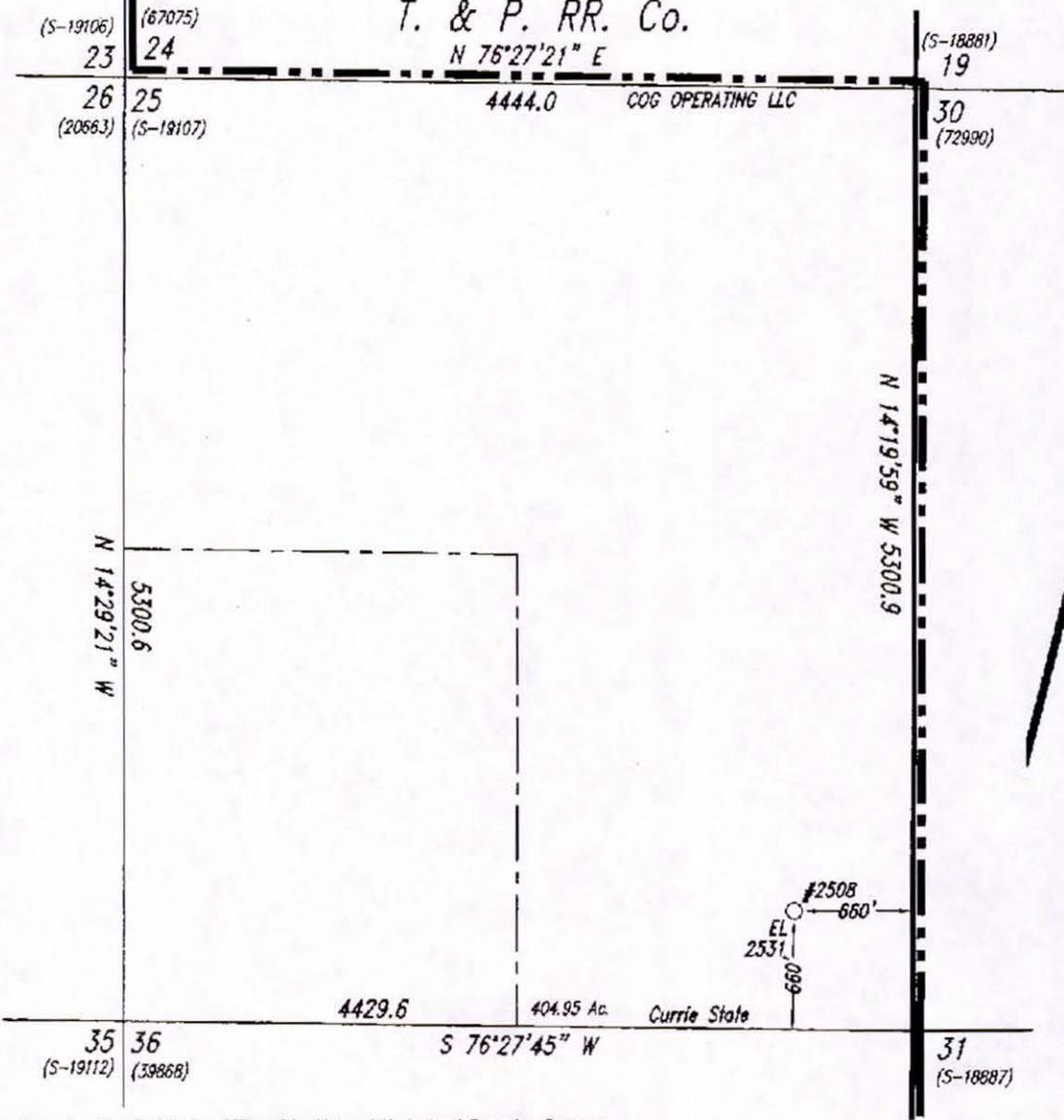
Romae

Romae Bell, Land Coordinator  
COG Operating LLC  
550 W. Texas, Suite 100  
Midland, TX 79701  
432-818-2203  
rbell@concho.com

CONFIDENTIALITY NOTICE: This electronic transmission and any attached documents or other writings are intended only for the person or entity to which it is addressed and may contain information that is privileged, confidential, or otherwise protected from disclosure. If you have received this communication in error, please immediately notify sender by e-mail or collect telephone call to (432) 683-7443 for instructions on its destruction or return. Any disclosure, copying, distribution, or the taking of any action concerning the contents of this communication or any attachments by anyone other than the named recipient is strictly prohibited.

API No. <u>42-173-34069</u> Drilling Permit # <u>712022</u> SWR Exception Case/Docket No. _____	<b>RAILROAD COMMISSION OF TEXAS</b> <b>OIL &amp; GAS DIVISION</b> <b>APPLICATION FOR PERMIT TO DRILL, RECOMPLETE, OR RE-ENTER</b> <i>This facsimile W-1 was generated electronically from data submitted to the RRC.</i> <i>A certification of the automated data is available in the RRC's Austin office.</i>	<b>FORM W-1</b> 07/2004 Permit Status: <b>Approved</b>				
1. RRC Operator No. <b>166150</b>	2. Operator's Name (as shown on form P-5, Organization Report) <b>COG OPERATING LLC</b>	3. Operator Address (include street, city, state, zip):				
4. Lease Name <b>CURRIE STATE</b>		5. Well No. <b>2508</b>				
<b>GENERAL INFORMATION</b>						
6. Purpose of filing (mark ALL appropriate boxes): <input checked="" type="checkbox"/> New Drill <input type="checkbox"/> Recompletion <input type="checkbox"/> Reclass <input type="checkbox"/> Field Transfer <input type="checkbox"/> Re-Enter <input type="checkbox"/> Amended <input type="checkbox"/> Amended as Drilled (BHL) (Also File Form W-1D)						
7. Wellbore Profile (mark ALL appropriate boxes): <input checked="" type="checkbox"/> Vertical <input type="checkbox"/> Horizontal (Also File Form W-1H) <input type="checkbox"/> Directional (Also File Form W-1D) <input type="checkbox"/> Sidetrack						
8. Total Depth <b>10500</b>	9. Do you have the right to develop the minerals under any right-of-way? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10. Is this well subject to Statewide Rule 36 (hydrogen sulfide area)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
<b>SURFACE LOCATION AND ACREAGE INFORMATION</b>						
11. RRC District No. <b>08</b>	12. County <b>GLASSCOCK</b>	13. Surface Location <input checked="" type="checkbox"/> Land <input type="checkbox"/> Bay/Estuary <input type="checkbox"/> Inland Waterway <input type="checkbox"/> Offshore				
14. This well is to be located <u>6.8</u> miles in a <u>NW</u> direction from <u>GARDEN CITY</u> which is the nearest town in the county of the well site.						
15. Section <b>25</b>	16. Block <b>33 T4S</b>	17. Survey <b>T&amp;P RR CO</b>				
18. Abstract No. <b>A-157</b>	19. Distance to nearest lease line: <b>660</b> ft.	20. Number of contiguous acres in lease, pooled unit, or unitized tract: <b>404.95</b>				
21. Lease Perpendiculars: <u>660</u> ft from the <u>EAST</u> line and <u>660</u> ft from the <u>SOUTH</u> line.		22. Survey Perpendiculars: <u>660</u> ft from the <u>EAST</u> line and <u>660</u> ft from the <u>SOUTH</u> line.				
23. Is this a pooled unit? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		24. Unitization Docket No:				
25. Are you applying for Substandard Acreage Field? <input type="checkbox"/> Yes (attach Form W-1A) <input checked="" type="checkbox"/> No						
<b>FIELD INFORMATION</b> List all fields of anticipated completion including Wildcat. List one zone per line.						
26. RRC District No.	27. Field No.	28. Field Name (exactly as shown in RRC records)	29. Well Type	30. Completion Depth	31. Distance to Nearest Well in this Reservoir	32. Number of Wells on this lease in this Reservoir
08	33998500	<u>GARDEN CITY, S. (WOLFCAMP)</u>	Oil Well	10500	0.00	1
08	74080500	R.W.P. (STRAWN)	Oil Well	10500	0.00	1
<b>BOTTOMHOLE LOCATION INFORMATION</b> is required for DIRECTIONAL, HORIZONTAL, AND AMENDED AS DRILLED PERMIT APPLICATIONS						
<b>Remarks</b>  				<b>Certificate:</b> I certify that information stated in this application is true and complete, to the best of my knowledge.  <u>Viola Vasquez, Regulatory Analyst</u> <u>Mar 11, 2011</u> Name of filer    Date submitted  <u>(432)683-7443</u> <u>Vvasquez@conchoresources.com</u> Phone    E-mail Address (OPTIONAL)		
<b>RRC Use Only</b> Data Validation Time Stamp: Mar 17, 2011 9:22 AM( 'As Approved' Version )						

Block 33, T-4-S  
T. & P. RR. Co.



Note: Survey Reconstruction filed in the Office of Luchini and Mertz Land Surveying Company.  
 Note: All bearings and coordinates shown are based on the Texas Coordinate System of 1927, Central Zone.  
 A combined grid factor of 0.999886179 must be divided into Section Line distances to obtain a true horizontal distance.  
 Note: Example: (S-99999) indicates General Land Office file number.  
 Note: NAD '27 Coordinates & Latitude/Longitude on well location in Section 25  
 Note: Well location is approximately 6.8 miles northwest of Garden City

#2508

X: 1680602.90 Latitude- 31.834588211°N  
 Y: 789948.98 Longitude- 101.361756473°W  
 Latitude- 31°50'04.52"N Longitude- 101°21'42.32"W



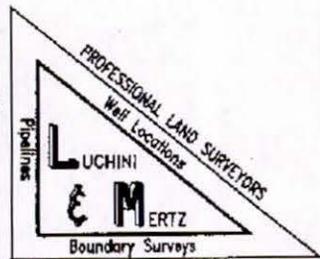
*Steven L. Prewit*  
 Revised: March 11, 2011

February 7, 2011  
 11020701

Railroad Commission Permit Plat

COG OPERATING LLC  
 "Currie State" Lease  
 N/2 & SE/4 of  
 Section 25, Block 33, T-4-S  
 T. & P. RR. Co.  
 Glasscock County, Texas

Scale: 1" = 1000'



#9

File No. MF112153

DPA-Curre #2508-#5160

Date Filed: 8-29-11

By Jerry E. Patterson, Commissioner  
*Jerry E. Patterson*

# The State of Texas

HROW Lease  
Revised 8/06



# 7122

## Austin, Texas

PAID-UP  
OIL AND GAS LEASE NO. (MF 112153)  
GENERAL LAND OFFICE  
AUSTIN, TEXAS

THIS AGREEMENT made and entered into by and between the Commissioner of the General Land Office of the State of Texas, whose address is Stephen F. Austin Building, 1700 North Congress, Austin, Texas, 78701, hereinafter called "Lessor", hereunto authorized by the School Land Board, pursuant to the provisions of Chapters 32 and 52 of the Natural Resources Code (hereinafter called N.R.C.), and amendments thereto, and all applicable rules promulgated by the School Land Board and COG Operating, LLC, whose address is 550 W. Texas Ave., Suite 1300, Midland, TX 79701 hereinafter called "Lessee".

1. Lessor, in consideration of **Eleven Thousand Two Hundred Ninety Eight 00/100 (\$ 11,298.00)** receipt of which is hereby acknowledged, and of the covenants and agreements of Lessee hereinafter contained, does hereby grant, lease, and let unto Lessee the land covered hereby for the purposes and with the exclusive right of exploring, drilling, mining and operating for, producing and owning oil, gas, and all other hydrocarbons, produced from the land covered hereby. The land covered hereby, herein called "said land" is located in the County of **Glasscock** State of Texas, and is described as follows:

**75.32** of land, more or less, known as, situated in said **Glasscock** County, Texas, more particularly described in Exhibit "A" attached hereto and made a part hereof together with a plat, attached hereto as Exhibit "B", depicting said right-of-way and surrounding area for purposes of illustration only.

For the purpose of determining the amount of any bonus or other payment hereunder, said land shall be deemed to contain **75.32** acres, whether actually containing more or less, and the above recital of acreage shall be deemed to be the true acreage thereof. Lessor accepts the bonus as lump sum consideration for this lease and all rights and options hereunder.

2. **PRIMARY TERM:** This lease, which is a "paid up" lease requiring no rentals, shall remain in force for a term of **three years, from April 5th, 2011** hereinafter called "primary term", and as long thereafter as operations, as hereinafter defined, are conducted upon said land with no cessation for more than ninety (90) consecutive days.

3. **ROYALTIES:** As royalty Lessee covenants and agrees:

(a) To deliver to the credit of Lessor, in the pipe line to which Lessee may connect its well, the equal **1/4** part of all oil produced and saved by Lessee from said land, or from time to time, at the option of Lessee, to pay Lessor the average posted market price of such **1/4** part of such oil at the wells as of the day it is run to the pipe line or storage tanks, Lessor's interest, in either case, to bear none of the cost of treating oil to render it marketable pipe line oil;

(b) To pay Lessor on gas and casing head gas produced from said land (1) when sold by lessee **1/4** of the amount realized by Lessee, computed at the mouth of the well, or (2) when used by Lessee off said land or in the manufacture of gasoline or other products, the market value, at the mouth of the well, of **1/4** of such gas and casing head gas.

(c) If, at the expiration of the primary term or at any time or times thereafter, there is any well on said land or on lands with which said land or any portion thereof has been pooled, capable of producing oil or gas, and all such wells are shut-in, this lease shall, nevertheless, continue in force as though operations were being conducted on said land for so long as said wells are shut-in, and thereafter this lease may be continued in force as if no shut-in had occurred

(d) Lessee covenants and agrees to use reasonable diligence to produce, utilize, or market the minerals capable of being produced from said wells, but in the exercise of such diligence, Lessee shall not be obligated to install or furnish facilities other than well facilities and ordinary lease facilities of flow lines, separator, and lease tank, and shall not be required to settle labor trouble or to market gas upon terms unacceptable to Lessee.

(e) If at any time or times after the expiration of the primary term, all such wells are shut-in for a period of ninety consecutive days, and during such time there are no operations on said land, then at or before the expiration of said ninety day period, lessee shall pay or tender, by check of lessee, as royalty, the sum of **\$ 25.00 per acre**. Lessee shall make like payments or tenders at or before the end of each anniversary of the expiration of said ninety day period if upon such anniversary this lease is being continued in force solely by reason of the provisions of this paragraph. Each such payment or tender shall be made to the parties who at the time of payment would be entitled to receive the royalties which would be paid under this lease if the wells were producing. Nothing herein shall impair lessee's right to release as provided in paragraph 5 hereof. In the event of assignment of this lease in whole or in part, liability for payment hereunder shall rest exclusively on the then owner or owners of this lease, severally as to acreage owned by each.

(f) All royalties not taken in kind shall be paid to the Commissioner of the General Land Office at Austin, Texas, in the following manner:

Royalty on oil is due and must be received in the General Land Office on or before the 5th day of the second month succeeding the month of production, and royalty on gas is due and must be received in the General Land Office on or before the 15th day of the second month succeeding the month of production, accompanied by the affidavit of the owner, manager, or other authorized agent, completed in the form and manner prescribed by the General Land Office and showing the gross amount and disposition of all oil and gas produced and the market value of the oil and gas, together with a copy of all documents, records or reports confirming the gross production, disposition and market value including gas meter readings, pipeline receipts, gas line receipts and other checks or memoranda of amount produced and put into pipelines, tanks, or pools and gas lines or gas storage, and any other reports or records which the General Land Office may require to verify the gross production, disposition and market value. In all cases the authority of a manager or agent to act for the Lessee herein must be filed in the General Land Office. Each royalty payment shall be accompanied by a check stub, schedule, summary or other remittance advice showing by the assigned General Land Office lease number the amount of royalty being paid on each lease. If Lessee pays his royalty on or before thirty (30) days after the royalty payment was due, the Lessee owes a penalty of 5% on the royalty or \$25.00, whichever is greater. A royalty payment which is over thirty (30) days late shall accrue a penalty of 10% of the royalty due or \$25.00, whichever is greater. In addition to a penalty, royalties shall accrue interest at a rate of 12% per year; such interest will begin accruing when the royalty is sixty (60) days overdue. Affidavits and supporting documents which are not filed when due shall incur a penalty in an amount set by the General Land Office administrative rule which is effective on the date when the affidavits or supporting documents were due. The Lessee shall bear all responsibility for paying or causing royalties to be paid as prescribed by the due date provided herein. Payment of the delinquency penalty shall in no way operate to prohibit the State's right of forfeiture as provided by law nor act to postpone the date on which royalties were originally due. The above penalty provisions shall not apply in cases of title dispute as to the State's portion of the royalty or to that portion of the royalty in dispute as to fair market value. The State shall have first lien upon all oil and gas produced from the area covered by this lease to secure the payment of all unpaid royalty and other sums of money that may become due to the State hereunder.

4. POOLING: (a) Lessee is hereby granted the right, at its option, to pool or unitize any land covered by this lease with any other land covered by this lease, and/or with any other land, lease, or leases, as to any or all minerals or horizons. Units pooled for oil hereunder shall not exceed 160 acres each in area, and units pooled for gas hereunder shall not exceed in area 640 acres each plus a tolerance often percent (10%) thereof, unless oil or gas units of a greater size are allowed under or prescribed by rules of the Railroad Commission of Texas. A unit established hereunder shall be valid and effective for all purposes of this lease even though there may be mineral, royalty, or leasehold interests in lands within

the unit, which are not effectively pooled or unitized. Any operations conducted on any part of such unitized land shall be considered, for all purposes, except the payment of royalty, as operations conducted upon said land under this lease. There shall be allocated to the land covered by this lease within each such unit (or to each separate tract within the unit if this lease covers separate tracts within the unit) the proportion of the total production of unitized minerals from the unit, after deducting any used in lease or unit operations, which the number of surface acres in such land (or in each such separate tract) covered by this lease within the unit bears to the total number of surface acres in the unit, and the production so allocated shall be considered for all purposes, including payment or delivery of royalty, overriding royalty and any other payments out of production, to be the entire production of unitized minerals from the land to which allocated in the same manner as though produced there from under the terms of this lease. The owner of the reversionary estate of any term royalty or mineral estate agrees that the accrual of royalties pursuant to this paragraph or of shut-in royalties from a well on the unit shall satisfy any limitation of term requiring production of oil or gas. The formation of any unit hereunder which includes land not covered by this lease shall not have the effect of exchanging or transferring any interest under this lease (including, without limitation, any shut-in royalty which may become payable under this lease) between parties owning interests in land covered by this lease and parties owning interests in land not covered by this lease. Neither shall it impair the right of Lessee to release as provided in paragraph 5 hereof, except that Lessee may not so release as to lands within a unit while there are operations thereon for unitized minerals unless all pooled leases are released as to lands within the unit. At any time while this lease is in force Lessee may dissolve any unit established hereunder by filing for record in the public office where this lease is recorded a declaration to that effect, if at that time no operations are being conducted thereon for unitized minerals. Subject to the provisions of this paragraph 4, a unit once established hereunder shall remain in force for so long as any lease subject thereto shall remain in force. If this lease now or hereafter covers separate tracts, no pooling or unitization of royalty interests as between any such separate tracts is intended or shall be implied or result merely from the inclusion of such separate tracts within this lease but Lessee shall nevertheless have the right to pool or unitize as provided in this paragraph 4 with consequent allocation of production as herein provided. As used in this paragraph 4, the words "separate tract" mean any tract with royalty ownership differing, now or hereafter, either as to parties or amounts, from that as to any other part of the leased premises.

(b) Neither unit production of oil or gas, nor unit operations, nor payment of shut-in royalties from a unit gas well, shall serve to hold the lease in force as to any area outside the unit, regardless of whether the production, maintenance of a shut-in gas well, or operations are actually located on the State tract or not.

(c) Lessee agrees to file with the General Land Office a copy of any unit designation, which this lease is included within ninety (90) days of such designation.

5. **RELEASE:** Lessee may relinquish the rights granted hereunder to the State at any time by recording the relinquishment in the county where this area is situated and filing the recorded relinquishment or certified copy of same in the General Land Office within ninety (90) days after its execution accompanied by the prescribed filing fee. Such relinquishment will not have the effect of releasing Lessee from any liability theretofore accrued in favor of the State.

6. **REWORK:** If at any time or times during the primary term operations are conducted on said land and if all operations are discontinued, this lease shall thereafter terminate at the end of the primary term or on the ninetieth day after discontinuance of all operations, whichever is the later date, unless on such later date either (1) Lessee is conducting operations or (2) the shut-in well provisions of paragraph 3 or the provisions of paragraph 9 are applicable. Whenever used in this lease the word "operations" shall mean operations for and any of the following: drilling, testing, completing, reworking, recompleting, deepening, plugging back or repairing of a well in search for or in an endeavor to obtain production of oil or gas, or production of oil or gas in paying quantities.

7. **MINERAL USE:** Lessee shall have the use, free from royalty, of oil and gas produced from said land in all operations hereunder.

8. **NOTICE:** In the event Lessor considers that Lessee has not complied with all its obligations hereunder, both express and implied, Lessor shall notify Lessee in writing, setting out specifically in what respects Lessee has breached this contract. Lessee shall then have sixty (60) days after receipt of said notice within which to meet or commence to meet all

or any part of the breaches alleged by Lessor. The service of said notice shall be precedent to the bringing of any action by Lessor on said lease for any cause, and no such action shall be brought until the lapse of sixty (60) days after service of such notice on Lessee. Neither the service of said notice nor the doing of any acts by Lessee aimed to meet all or any of the alleged breaches shall be deemed an admission or presumption that Lessee has failed to perform all its obligations hereunder. If this lease is canceled for any cause, it shall nevertheless remain in force and effect as to (1) sufficient acreage around each well as to which there are operations to constitute a drilling or maximum allowable unit under applicable governmental regulations, (but in no event less than forty acres), such acreage to be designated by Lessee as nearly as practicable in the form of a square centered at the well, or in such shape as then existing spacing rules require; and (2) any part of said land included in a pooled unit on which there are operations.

9. FORCE MAJEURE: If, while this lease is in force, at, or after the expiration of the primary term hereof, it is not being continued in force by reason of the shut-in well provisions of paragraph 3 hereof, and Lessee is not conducting operations on said land by reason of (1) any law, order, rule or regulation, (whether or not subsequently determined to be invalid) or (2) any other cause, whether similar or dissimilar, (except financial) beyond the reasonable control of Lessee, the primary term shall be extended until the first anniversary date hereof occurring ninety (90) or more days following the removal of such delaying cause, and this lease may be extended thereafter by operations as if such delay had not occurred.

10. LESSER ESTATE CLAUSE: If this lease covers a less interest in the oil or gas in all or any part of said land than the entire and undivided fee simple estate (whether lessors interest is herein specified or not), or no interest therein, then the royalties, and other monies accruing from any part as to which this lease covers less than such full interest, shall be paid only in the proportion which the interest therein, if any, covered by this lease bears to the whole and undivided fee simple estate therein.

11. ASSIGNMENTS: This lease may be transferred at any time. All transfers must reference the lease by file number and must be recorded in the county where the land covered hereby is located, and the recorded transfer or a copy certified to by the County Clerk of the county where the transfer is recorded must be filed in the General Land Office within ninety (90) days of the execution date, as provided by N.R.C. Section 52.026, accompanied by the prescribed filing fee. Every transferee shall succeed to all rights and be subject to all obligations, liabilities, and penalties owed to the State by the original Lessee or any prior transferee of the lease, including any liabilities to the State for unpaid royalties.

12. WELL INFORMATION: Lessee agrees to forthwith furnish Lessor, upon written request, with copies of all drilling logs, electrical logs, cores and core records and other information pertaining to all wells drilled by lessee either on the leased premises or acreage pooled therewith, when requested to do so. Said information shall remain confidential as required by statute.

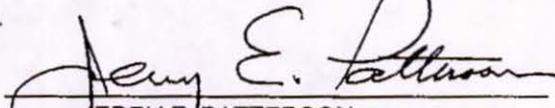
13. SURFACE: Notwithstanding anything herein to the contrary, it is agreed that Lessee will not conduct any exploration or drilling on the surface of the leased premises or use the surface in the exercise of any rights herein granted. Any development of said land shall be by means of a directional well located off the leased premises, or by pooling of said land with other land, lease or leases as hereinabove provided.

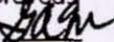
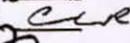
14. COMPENSATORY ROYALTY: Lessee shall pay a compensatory royalty if this lease is not being held by production on the leased premises, by production from a pooled unit, or by payment of shut-in royalties in accordance with the terms of this lease, and if oil or gas is sold or delivered in paying quantities from a well located within 2,500 feet of the leased premises and completed in a producible reservoir underlying the area leased hereunder or in any case in which drainage is occurring. Such compensatory royalty shall be paid at the royalty rate provided in this lease based on the value of production from the well as provided in the lease on which such well is located. The compensatory royalty shall be paid in the same proportion that the acreage of this lease has to the acreage of the proration unit surrounding the draining well plus the acreage of this lease. The compensatory royalty shall be paid monthly to the Commissioner of the General Land Office on or before the last day of the month after the month in which the oil or gas is sold and delivered from the well

causing the drainage or from the well located within 2500 feet of the leased premises and completed in a producible reservoir under this lease. Notwithstanding anything herein to the contrary, compensatory royalty payable hereunder shall be no less than an amount equal to **double the shut-in royalty** and shall maintain this lease in effect for so long as such payments are made as provided herein.

15. FORFEITURE: If Lessee shall fail or refuse to make payment of any sum within thirty (30) days after it becomes due, or if Lessee or an authorized agent should knowingly make any false return or false report concerning production or drilling, or if Lessee shall fail or refuse to drill any offset well or wells in good faith as required by law and the rules and regulations adopted by the Commissioner of the General Land Office, or if Lessee should fail to file reports in the manner required by law or fail to comply with rules and regulations promulgated by the General Land Office, or refuse the proper authority access to the records pertaining to operations, or if Lessee or an authorized agent should knowingly fail or refuse to give correct information to the proper authority, or knowingly fail or refuse to furnish the General Land Office a correct log of any well, or if this lease is pooled or assigned and the unit designation or assignment is not filed in the General Land Office as required by law, the rights acquired under this lease shall be subject to forfeiture by the Commissioner, and he shall forfeit same when sufficiently informed of the facts which authorize a forfeiture, and when forfeited the area shall again be subject to lease. However, nothing herein shall be construed as waiving the automatic termination of this lease by operations of law or by reason of any special limitation arising hereunder. Forfeitures may be set aside and this lease and all rights there under reinstated before the rights of another intervene upon satisfactory evidence to the Commissioner of the General Land Office of future compliance with the provisions of the law and of this lease and the rules and regulations that may be adopted relative hereto.

IN TESTIMONY WHEREOF, witness the signature of the Commissioner of the General Land Office of the State of Texas under the seal of the General Land Office.

  
JERRY E. PATTERSON  
COMMISSIONER, GENERAL LAND OFFICE

Approved:  
ML:   
DC:   
CC: 

BOOK 166 PAGE 153  
METES AND BOUNDS DESCRIPTION of

75.32 Acres in State Highway #158  
Right-of-Way out of  
Block 33, T-4-S, & Block 32, T-4-S,  
T. & P. RR. Co.,  
Glasscock County, Texas

BOOK 166 PAGE 153

Beginning at Highway Station 264-65, a point on the west line of Section 23, Block 33, T-4-S, T. & P. RR. Co., and on the centerline of State Highway #158, from which the calculated northwest corner of said Section 23 bears N 14°26'00" W 1824.00 feet;

Thence N 14°26'00" W, with the west line of said Section 23, 66.65 feet to a point on the west line of said Section 23 and in the north right-of-way of State Highway #158 for the most northwesterly corner of this tract;

Thence S 78°37'00" E, with the north right-of-way of State Highway #158, 5941.13 feet to the point of curvature of a circular curve to the right;

Thence around said curve, whose central angle is 21°35', a distance of 2180.94 feet to the point of tangency of said curve;

Thence S 57°02'00" E, with the northeast right-of-way of State Highway #158, 55.41 feet pass the north line of Section 25, Block 33, T-4-S, T. & P. RR. Co., 3695.05 feet pass the east line of said Section 25, a total distance of 11888.79 feet to a point in the northeast right-of-way of State Highway #158;

Thence S 56°17'00" E, with the northeast right-of-way of State Highway #158, 7314.02 feet to a point on the east line of Section 41, Block 32, T-4-S, T. & P. RR. Co. and in the northeast right-of-way of State Highway #158 for the most northeasterly corner of this tract;

Thence S 14°26'00" E, with the east line of said Section 41, 179.86 feet to a point on the east line of said Section 41 and in the southwest right-of-way of State Highway #158, for the most southeasterly corner of this tract;

Thence N 56°17'00" W, with the southwest right-of-way of State Highway #158, 7447.99 feet to a point in the southwest right-of-way of State Highway #158;

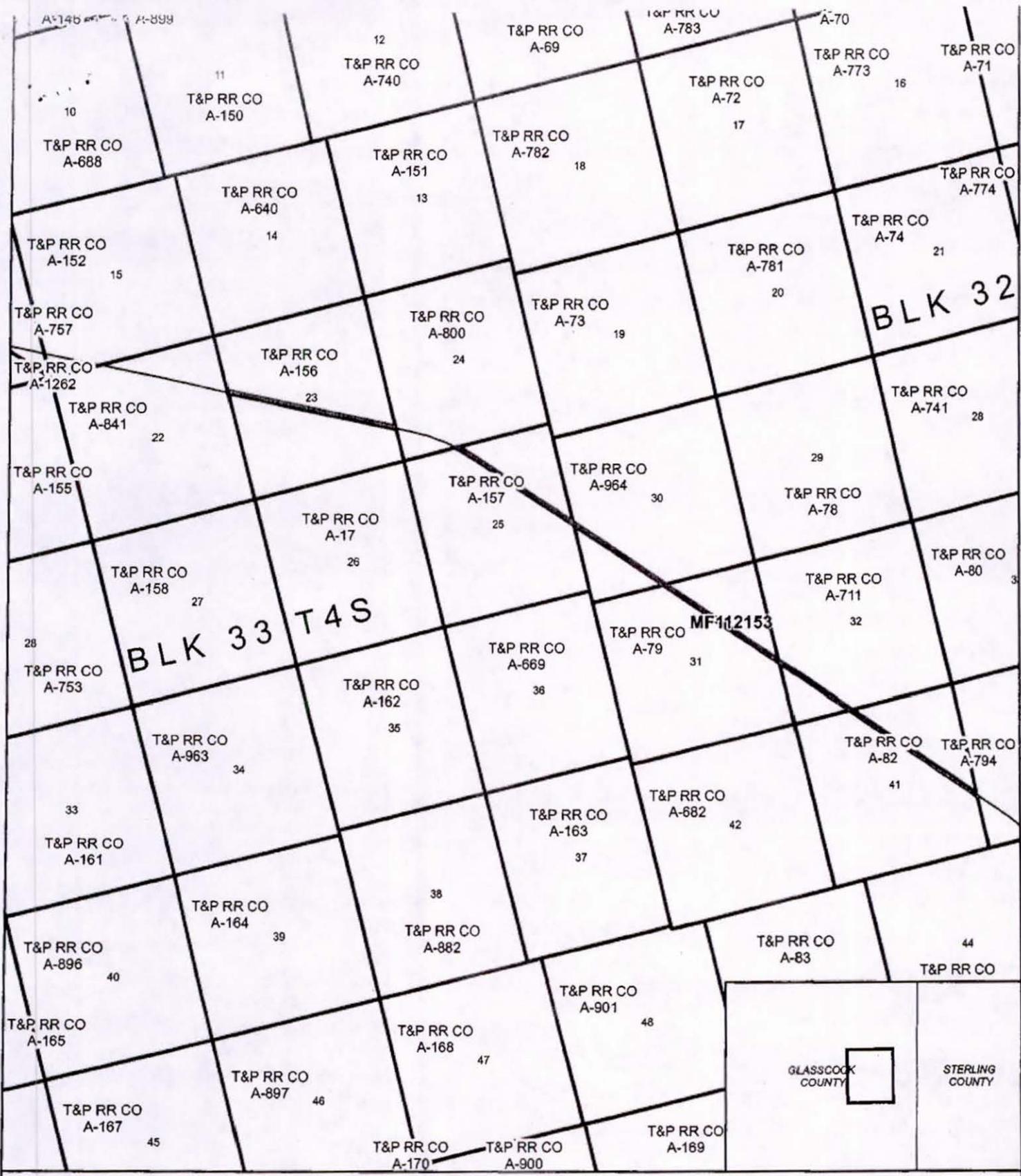
Thence N 57°02'00" W, with the southwest right-of-way of State Highway #158, 8061.06 feet pass the east line of said Section 25, a total distance of 11887.21 feet to the point of curvature of a circular curve to the left;

Thence around said curve, whose central angle is 21°35', a distance of 2135.73 feet to the point of tangency of said curve;

Thence N 78°37'00" W, with the south right-of-way of State Highway #158, 5883.07 feet to a point on the west line of said Section 23 and in the south right-of-way of State Highway #158, for the most southwesterly corner of this tract;

Thence N 14°26'00" W, with the west line of Section 23, 66.65 feet to the point of beginning.

LESS & EXCEPT approximately 6.2 Acres out of Section 24, Block 33, T-4-S, T. & P. RR. Co., Glasscock County.



Map Showing a Buffer of  
 SH 158  
 75.32 Acres  
 Glasscock County, TX

4,000 2,000 0 4,000 Feet

The Texas General Land Office makes no representations or warranties regarding the accuracy or completeness of the information depicted on this map or the data from which it was produced. This map IS NOT suitable for navigational purposes and does not purport to depict or establish boundaries between private and public land.



Map Generated by:  
 Mark Conway  
 IS/BAS/GIS  
 February 2011

ON THE 23 DAY OF May  
A.D., 2011  
INS. NO. 7122

I hereby certify that this instrument was FILED on the date and at the time stamped hereon by me and was duly RECORDED in the Volume and Page of the named RECORDS of Glasscock County, Texas, as stamped hereon by me.

*Rebecca Barla*

COUNTY CLERK, GLASSCOCK COUNTY, TEXAS

BY *Robtina Jones*  
DEPUTY



*Rebecca Barla*

County Clerk, Glasscock County, Texas

OFFICIAL PUBLIC RECORDS

VOL. 166 PAGE 148

RECORDED May 23, 2011

File No. \_\_\_\_\_

By Boyd

Jerry E. Patterson, Commissioner

Date Filed: \_\_\_\_\_  
Jerry E. Patterson, Commissioner

Date Filed: 11-7-91  
Recorded copy of home

By \_\_\_\_\_  
File No. MF 112153

#10

## OIL AND GAS DIVISION ORDER

Property Number: 424212.3113.1  
 Property Name: CURRIE "E" STATE #3113

Date Prepared: 10/28/2011  
 Effective Date: Date of First Sales

**MF -112153**

Operator: COG OPERATING LLC  
 County/State: Glasscock, TX  
 Property Description: SW/4 of NE/4, Sec. 31, Blk 32, T-4-S, T&P RR Survey  
 Production: Oil \_\_\_\_\_ Gas  Other \_\_\_\_\_

<b>Owner Name:</b>	GENERAL LAND OFFICE	<b>Owner Number:</b>	001523
<b>Address:</b>	1700 N. CONGRESS AVENUE STE 935	<b>Type of Interest:</b>	RI
	AUSTIN, TX 78701-1495		
<b>Phone #:</b>	512-463-5001	<b>Interest:</b>	0.01323116

The undersigned certifies the ownership of their decimal in production or proceeds as described above payable by (Payor).

COG OPERATING, LLC

Payor shall be notified, in writing, of any change in ownership, decimal interest, or payment address. All such changes shall be effective the first day of the month following receipt of such notice.

Payor is authorized to withhold payment pending resolution of a title dispute or adverse claim asserted regarding the interest in production claimed herein by the undersigned.

The undersigned agrees to indemnify and reimburse Payor any amount attributable to an interest to which the undersigned is not entitled.

Payor may accrue proceeds until the total amount equals \$ 25.00, or pay annually, whichever occurs first, or as required by applicable state statutes.

This Division Order does not amend any lease or operating agreement between the undersigned and the lessee or operator or any other contracts for the purchase of oil or gas.

In addition to the terms and conditions of this Division Order, the undersigned and Payor may have certain statutory rights under the laws of the state in which the property is located.

	Witness:
Owner(s) Signature: _____	_____
Owner(s) Tax ID/SS No.: _____	_____
Owner(s) Daytime Telephone No.: _____	_____
Owner(s) FAX Telephone No.: _____	_____

**IMPORTANT: TO AVOID DELAY IN PAYMENT, YOUR SOCIAL SECURITY NUMBER OR TAX IDENTIFICATION NUMBER MUST BE SHOWN ABOVE. FAILURE TO FURNISH YOUR SOCIAL SECURITY NUMBER OR TAX IDENTIFICATION NUMBER WILL RESULT IN 28% WITHHOLDING TAX IN ACCORDANCE WITH FEDERAL LAW AND ANY TAX WITHHELD WILL NOT BE REFUNDABLE BY PAYOR. BE SURE YOUR SIGNATURE IS WITNESSED AND YOUR CORRECT ADDRESS IS SHOWN.**

KP

FOR YOUR FILE

File No. 112153

DIVISION ORDER

Date Filed: 11-7-11

By Jerry E. Patterson, Commissioner  
B. Boyd

**DO NOT DESTROY**



**Texas General Land Office**  
**UNIT AGREEMENT MEMO**

PA11-344

*Unit Number* 5669  
*Operator Name* COG OPERATING LLC *Effective Date* 4/6/2011  
*Customer ID* C000044811 *Unitized For* Oil & Gas  
*Unit Name* Currie "E" #3113 *Unit Term* 0 Months  
*County 1* Glasscock  
*County 2* Old Unit Number Inactive Status Date  
*County 3* 0  
*RRC District:* 08 0  
*Unit Type:* Permanent 0  
*State Royalty Interest:* 0.0132311542 0  
*State Part in Unit:* 0.0529246168  
*Unit Depth* *Well:* *Unit*  
*Below Depth* 0 *Formation:* Wolfcamp  
*Above Depth* 0 *Participation Basis:* Surface Acreage  
[If Exclusions Apply: See Remarks]

*MF Number* MF112153 *Tract Number* 2  
*Lease Acres* 8.46 / *Total Unit Acres* 159.85 =  
*Tract Participation:* 0.0529246 X  
*Lease Royalty* 0.25 = *Manual Tract Participation:* [ ] 0 | See Remark  
*Tract Royalty Participation* 0.0132312 *Manual Tract Royalty:* [ ] 0

*Tract Royalty Reduction* No  
*Tract Royalty Rate* 0  
*Tract On-Line Date:*

API Number

421733402800

RRC Number

0

Remarks:

HROW Unit - Wolfcamp

Prepared By:

B. Beard

Prepared Date:

11-7-11

GLO Base Updated By:

B. Beard

GLOBase Date:

11-7-11

RAM Approval By:

J. King

RAM Approval Date:

11-9-2011

GIS By:

\_\_\_\_\_

GIS Date:

\_\_\_\_\_

## DESIGNATION OF POOLED UNIT

COG Operating LLC  
Currie "E" State #3113 Pooled Unit  
Glasscock County, Texas

This Designation of Pooled Unit is made and entered into effective as of April 6, 2011, by and between the undersigned owners of the oil and gas leases described in Exhibit "A" hereof embracing lands in Glasscock County, Texas and by and between the undersigned owners of royalty in and under the land described in Exhibit "A" hereof.

### WITNESSETH:

1. Each of said oil and gas leases embraces a portion of the lands within the pooled unit and collectively embrace the entire pooled unit.

2. The owners of said oil and gas leases desire to pool the oil and gas leases described in Exhibit "A" hereof (INSOFAR, but only insofar as said oil and gas leases cover and affect lands lying within the unit area).

3. The owners of the royalty in and under the land described in Exhibit "A" hereof hereby consent to this Designation of Pooled Unit (INSOFAR, but only insofar as said oil and gas leases cover and affect lands lying within the unit area).

4. The unit area shall consist of 159.85 acres, more or less, in Glasscock County, Texas, as described and referred to in Exhibit "A" hereto as to all depths and formations.

5. The owners of said oil and gas leases commit all of their interest and all interest over which they hold pooling privilege or power by virtue of said oil and gas leases, amendment and/or ratifications thereof, other instruments or by operation of law and which are within the above described unit area to the extent these presents pool said oil and gas leases, the leasehold rights, and royalty interest therein, insofar as said leases, rights and interest cover and affect the lands described in Exhibit "A" for the drilling and production of oil, gas, condensate, casinghead gas and other hydrocarbons hereinafter at times referred to as "pooled mineral."

(a) The unit shall be operated as an entirety for the exploration, development, and production of the pooled mineral, rather than as separate tracts.

(b) All drilling operations, reworking or other operations with respect to the pooled mineral on land within the unit shall be considered as though the same were on each separate tract in the unit, regardless of the actual location of the well or wells thereon, for all purposes under the terms of the respective leases or other contracts thereon and this agreement.

(c) Production of the pooled mineral from the unit allocated to each separate tract, respectively, as hereinafter provided, shall be deemed to have been produced from each separate tract in the unit, regardless of the actual location of the well or wells thereon, for all purposes under the terms of the respective leases or other contracts thereon and this agreement.

(d) All rights to the production of the pooled mineral from the unit, including royalties and other payments, shall be determined and governed by the lease or other contract pertaining to each separate tract, respectively, based upon the production so allocated to such tract only, and in lieu of the actual production of the pooled mineral therefrom.

6. For the purposes of computing the royalty to which each Lessor or royalty owner shall be entitled on production of oil or gas and condensate there shall be allocated to each tract committed to the above referred unit, that pro rata portion from the pooled mineral produced from the pooled unit which the number of surface acres contained in each such tract bears to the total number of surface acres included in the pooled unit.

7. Notwithstanding anything contained elsewhere in this Designation of Pooled Unit, it is expressly understood and agreed that nothing contained in this Designation of Pooled Unit shall modify or affect (i) the continuous development provisions, the horizontal and vertical lease

termination provisions or the separate lease provisions contained in Lease No. 1 described on Exhibit "A" attached hereto ("Lease 1"); or (ii) the Lessee's implied covenant to reasonably develop the lands covered by Lease 1, if any. It is further expressly understood and agreed that upon partial termination of Lease 1 pursuant to its terms as to any portion of Tract No. 1 described on Exhibit "A" attached hereto, neither the terminated portion of Lease 1 nor that portion of the mineral interest in said Tract No. 1 that was subject to Lease 1 prior to such partial termination shall remain subject to the terms of this Designation of Pooled Unit. Provided, notwithstanding (i) and (ii) above or other language of this paragraph, a unit well shall be deemed a well on Lease No. 1 for purposes of: (a) extending the continuous development period of Lease No. 1, if and to the extent, but only if and to the extent, it would do so if drilled on Lease No. 1 in the absence of pooling and (b) determining compliance with Lease No. 1's implied duty of reasonable development, if any.

The declaration may be executed in counterpart, none of which needs to be executed by all parties, or may be ratified or consented to by separate instruments and shall be binding upon both parties who have executed such a counterpart, ratification or consent.

IN WITNESS WHEREOF, the parties hereto have executed this agreement upon the respective dates of their acknowledgments.

**Lessee under Leases 1 & 2:**

**COG Operating LLC**

By: Gregory K. Daggett  
Gregory K. Daggett  
Attorney-In-Fact *GD* *GD*

**Chevron Midcontinent, L.P.**

By: Chevron Midcontinent Operations LLC,  
General Partner

By: \_\_\_\_\_  
D. K. Beckham  
Attorney-in-Fact

**Baqash Resources LP**

By: Baqash Resources Management LLC,  
General Partner

By: Damian G. Barrett  
Damian G. Barrett, Manager

**Tekar Tech, L.P.**

By: TCB Management, LLC,  
General Partner

By: Terence Craig Burkes  
Terence Craig Burkes, President

**L & K Gates Resources LP**

By: Lawrence C. Gates  
Lawrence C. Gates, Manager

Kathrin A. Lewis  
Kathrin A. Lewis

\_\_\_\_\_  
Sharon F. Temple

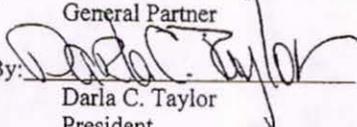
**Royalty Owners Under Lease 1:**

**CCH Ranch Investments LP**

By: CCH Ranch Management LLC  
General Partner

By: Cynthia C. Howard  
Cynthia C. Howard  
President

**DCT Ranch Investments LP**  
By: DCT Ranch Management LLC  
General Partner

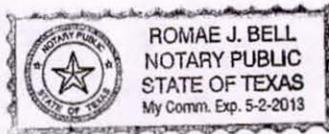
By:   
Darla C. Taylor  
President

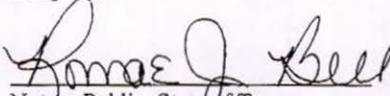
**ACKNOWLEDGMENTS**

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was acknowledged before me on 25<sup>th</sup> day of October, 2011, by **GREGORY K. DAGGETT**, as Attorney-in-Fact of **COG OPERATING LLC**, a Delaware limited liability company, on behalf of said limited liability company.



  
Notary Public, State of Texas

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was acknowledged before me on \_\_\_\_\_ day of \_\_\_\_\_, 2011, by **D. K. Beckham**, as Attorney-in-Fact for Chevron Midcontinent Operations LLC, a Delaware limited liability company, as General Partner of **CHEVRON MIDCONTINENT, L.P.**, a Texas limited partnership, on behalf of said limited partnership.

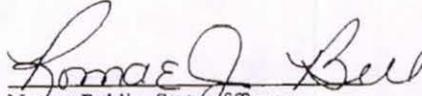
\_\_\_\_\_  
Notary Public, State of Texas

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was acknowledged before me on 18<sup>th</sup> day of October, 2011, by **TERENCE CRAIG BURKES**, as President for TCB Management, LLC, a Texas limited liability company, as General Partner of **TEKAR TECH, L.P.**, a Texas limited partnership, on behalf of said limited partnership.



  
Notary Public, State of Texas

STATE OF TEXAS  
COUNTY OF MIDLAND

This instrument was acknowledged before me on 17<sup>th</sup> day of October, 2011,  
by **DAMIAN G. BARRETT**, as Manager for Baqash Resources Management LLC, a Texas  
limited liability company, as General Partner of **BAQASH RESOURCES LP**, a Texas limited  
partnership, on behalf of said limited partnership.



Romae J. Bell  
Notary Public, State of Texas

STATE OF TEXAS  
COUNTY OF MIDLAND

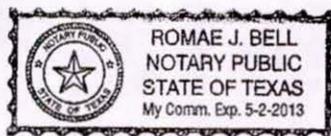
This instrument was acknowledged before me on 18<sup>th</sup> day of October, 2011,  
by **LAWRENCE C. GATES**, as Manager of **L & K GATES RESOURCES LP**, a Texas  
limited partnership, on behalf of said partnership.



Romae J. Bell  
Notary Public, State of Texas

STATE OF TEXAS  
COUNTY OF MIDLAND

This instrument was acknowledged before me on 17<sup>th</sup> day of October, 2011,  
by **KATHRIN A. LEWIS**.



Romae J. Bell  
Notary Public, State of Texas

STATE OF TEXAS  
COUNTY OF MIDLAND

This instrument was personally acknowledged before me on \_\_\_\_\_ day of \_\_\_\_\_,  
2011, by **SHARON F. TEMPLE**.

\_\_\_\_\_  
Notary Public, State of Texas

STATE OF TEXAS  
COUNTY OF MIDLAND

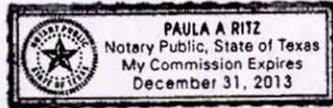
This instrument was personally acknowledged before me on 7<sup>th</sup> day of October, 2011, by **Cynthia C. Howard**, President of CCH Ranch Management LLC, General Partner of **CCH RANCH INVESTMENTS LP**, a Texas limited partnership, on behalf of said limited partnership.



Jean Gladish  
Notary Public, State of Texas

STATE OF TEXAS  
COUNTY OF MIDLAND

This instrument was personally acknowledged before me on 5<sup>th</sup> day of October, 2011, by **Darla C. Taylor**, President of DCT Ranch Management LLC, General Partner of **DCT RANCH INVESTMENTS LP**, a Texas limited partnership, on behalf of said limited partnership.



Paula A. Ritz  
Notary Public, State of Texas

**EXHIBIT "A"**  
**DESIGNATION OF POOLED UNIT**

**COG Operating LLC**  
**Currie "E" State #3113 Pooled Unit**  
**Glasscock County, Texas**

**Description of Pooled Unit**

**Currie "E" State 3113 Unit**

NE/4 of Section 31, Block 32, Township 4 South, T & P Ry. Co. Survey, A-79, containing 159.85 acres, more or less:

**Tract No. 1**

A tract of land containing 151.39 acres, more or less, being all of NE/4 of Section 31, Block 32, Township 4 South, T & P Ry. Co. Survey, A-79, containing 159.85 acres, more or less, SAVE AND EXCEPT 8.46 acres, more or less, being the right-of way of State Highway 158, described more particularly by metes and bounds in Tract No. 2 below.

**Tract No. 2**

A tract of land containing 8.46 acres, more or less, out of NE/4 of Section 31, Block 32, Township 4 South, T&P Ry. Co. Survey, being the right-of-way of State Highway 158, described more particularly by metes and bounds as shown on the plat attached hereto:

**Leases Committed to Pooled Unit:**

**Lease No. 1**

Lessor: James R. Currie, Individually and as Trustee, joined by his wife, Jimmie R. Currie; Cynthia C. Howard; and Darla C. Taylor.

Lessee: Henry Petroleum LP

Date: December 5, 2005

Recording: Memorandum of Lease recorded Volume 89, Page 652 of Official Public Records of Glasscock County, Texas

Description: Insofar as and only insofar as said lease covers Tract 1 described above.

**Lease No. 2**

Lessor: Commissioner of the General Land Office of the State of Texas  
Texas General Land Office Lease No. (MF 112153)

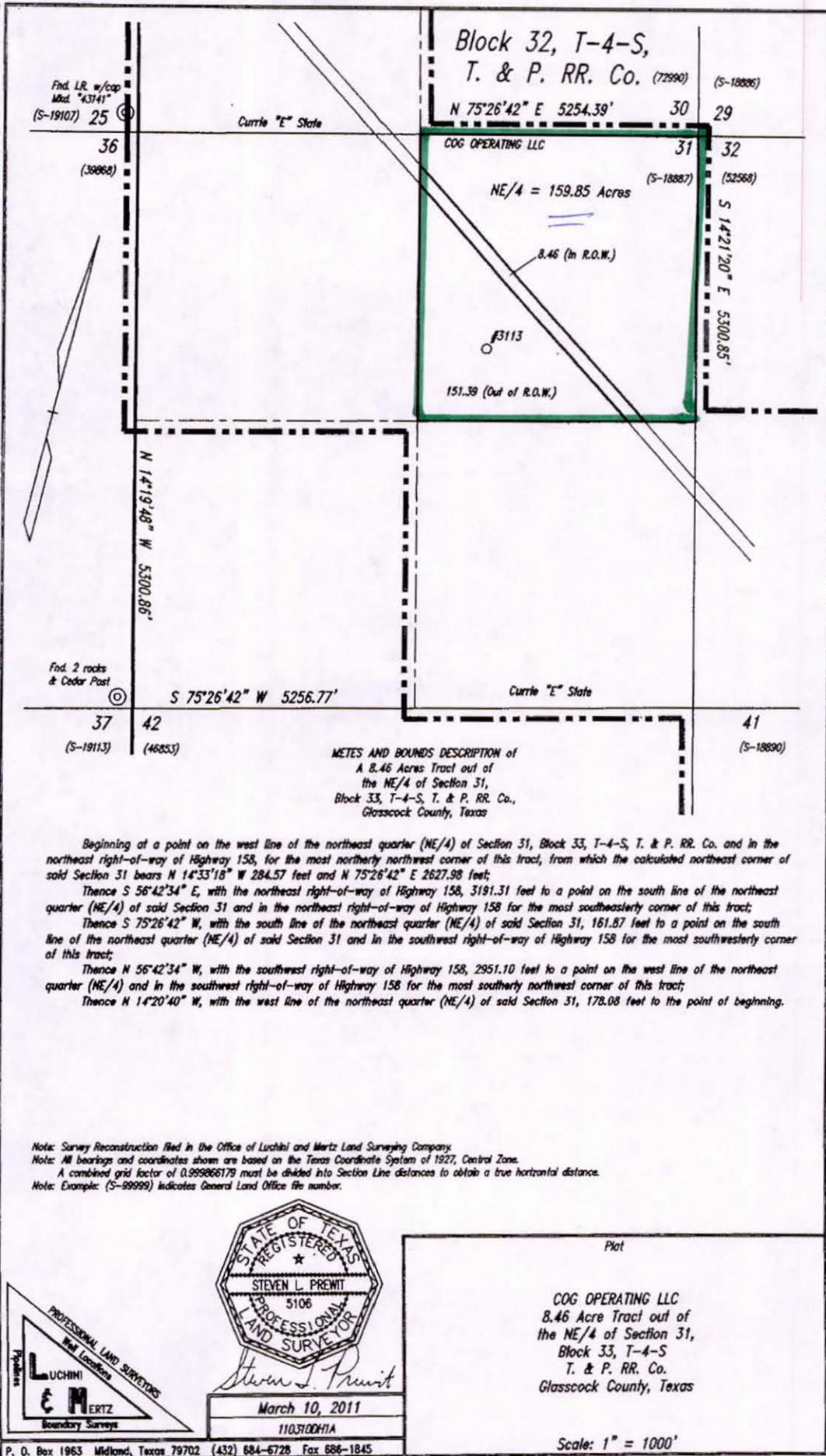
Lessee: COG Operating LLC

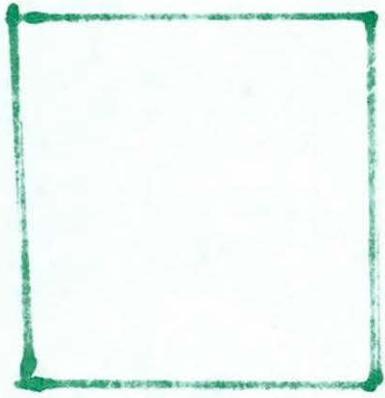
Date: April 5, 2011

Recording: Volume 166, Page 148 of Official Public Records of Glasscock County,  
Texas

Description: Insofar as and only insofar as said lease covers Tract 2 described above.

End of Exhibit "A" to Currie "E" State #3113 Pooled Unit - Designation of Pooled Unit





**From:** Karin Parker <kparker@concho.com>  
**To:** "Beverly Boyd (beverly.boyd@glo.state.tx.us)" <beverly.boyd@glo.state.tx...>  
**CC:** Marylyn Gibbs <MGibbs@concho.com>, Romae Bell <rbell@concho.com>  
**Date:** 11/4/2011 2:15 PM  
**Subject:** CURRIE E STATE #3113  
**Attachments:** CURRIE E STATE #3113 DIVISION ORDERS.pdf; UNSIGNED DESIGNATION OF POOLED UNIT -CURRIE E STATE #3113.pdf; STATE OF TEXAS MF 112153.pdf

November 3, 2011

General Land Office

Beverly Boyd

PO Box 128973

Austin, TX 78711-2873

RE: Currie E State #3113 - MF 112153, Upton County, TX

Beverly:

Please see faxed Division Orders and copy of the State lease MF112153 on the Currie E State #3113 - MF 112153. As per our telephone conversation the Designation of Pooling is at Chevron waiting to be signed I have enclosed an unsigned copy of the unrecorded Designation of Pooled Unit on the Currie E State #3113. COG will send the recorded Designation of Pooled Unit as soon it is received signed & recorded.

Please let me know if there is anything else I need to send.

Respectfully,

Karin Parker  
Division Order Analyst  
COG OPERATING LLC  
550 W. Texas Avenue, Suite 100  
Midland, Texas 79701  
Ph 432.686.3086  
Fx 432.687-8024

Email: [kparker@concho.com](mailto:kparker@concho.com)<<mailto:tcompton@conchoresources.com>>  
[concho\_logo.jpg]

CONFIDENTIALITY NOTICE: The information in this email may be confidential and/or privileged. If you are not the intended recipient or an authorized representative of the intended recipient, you are hereby notified that any review, dissemination or copying of this email and its attachments, if any, or the information contained herein, is prohibited. If you have received this email in error, please immediately notify the sender by return email and delete this email from your system. Thank you.

## OIL AND GAS DIVISION ORDER

Property Number: 424212.3113.1  
 Property Name: CURRIE "E" STATE #3113

Date Prepared: 10/28/2011  
 Effective Date: Date of First Sales

**MF -112153**

Operator: COG OPERATING LLC  
 County/State: Glasscock, TX  
 Property Description: SW/4 of NE/4, Sec. 31, Blk 32, T-4-S, T&P RR Survey  
 Production: Oil \_\_\_\_\_ Gas  Other \_\_\_\_\_

<b>Owner Name:</b>	GENERAL LAND OFFICE	<b>Owner Number:</b>	001523
<b>Address:</b>	1700 N. CONGRESS AVENUE STE 935	<b>Type of Interest:</b>	RI
	AUSTIN, TX 78701-1495		
<b>Phone #:</b>	512-463-5001	<b>Interest:</b>	0.01323116

The undersigned certifies the ownership of their decimal in production or proceeds as described above payable by (Payor).

COG OPERATING, LLC

Payor shall be notified, in writing, of any change in ownership, decimal interest, or payment address. All such changes shall be effective the first day of the month following receipt of such notice.

Payor is authorized to withhold payment pending resolution of a title dispute or adverse claim asserted regarding the interest in production claimed herein by the undersigned.

The undersigned agrees to indemnify and reimburse Payor any amount attributable to an interest to which the undersigned is not entitled.

Payor may accrue proceeds until the total amount equals \$ 25.00, or pay annually, whichever occurs first, or as required by applicable state statutes.

This Division Order does not amend any lease or operating agreement between the undersigned and the lessee or operator or any other contracts for the purchase of oil or gas.

In addition to the terms and conditions of this Division Order, the undersigned and Payor may have certain statutory rights under the laws of the state in which the property is located.

	Witness:
Owner(s) Signature: _____	
Owner(s) Tax ID/SS No.: _____	
Owner(s) Daytime Telephone No.: _____	
Owner(s) FAX Telephone No.: _____	

**IMPORTANT: TO AVOID DELAY IN PAYMENT, YOUR SOCIAL SECURITY NUMBER OR TAX IDENTIFICATION NUMBER MUST BE SHOWN ABOVE. FAILURE TO FURNISH YOUR SOCIAL SECURITY NUMBER OR TAX IDENTIFICATION NUMBER WILL RESULT IN 28% WITHHOLDING TAX IN ACCORDANCE WITH FEDERAL LAW AND ANY TAX WITHHELD WILL NOT BE REFUNDABLE BY PAYOR. BE SURE YOUR SIGNATURE IS WITNESSED AND YOUR CORRECT ADDRESS IS SHOWN.**



THIS COPY

API No. <u>42-173-34028</u> Drilling Permit # <u>710304</u> SWR Exception Case/Docket No. _____	<b>RAILROAD COMMISSION OF TEXAS</b> <b>OIL &amp; GAS DIVISION</b> <b>APPLICATION FOR PERMIT TO DRILL, RECOMPLETE, OR RE-ENTER</b> <i>This facsimile W-1 was generated electronically from data submitted to the RRC.</i> <i>A certification of the automated data is available in the RRC's Austin office.</i>	<b>FORM W-1</b> 07/2004 Permit Status: <b>Approved</b>				
1. RRC Operator No. <b>166150</b>	2. Operator's Name (as shown on form P-5, Organization Report) <b>COG OPERATING LLC</b>	3. Operator Address (include street, city, state, zip):				
4. Lease Name <b>CURRIE "E"</b>	5. Well No. <b>3113</b>					
<b>GENERAL INFORMATION</b>						
6. Purpose of filing (mark ALL appropriate boxes):						
<input checked="" type="checkbox"/> New Drill <input type="checkbox"/> Recompletion <input type="checkbox"/> Reclass <input type="checkbox"/> Field Transfer <input type="checkbox"/> Re-Enter <input type="checkbox"/> Amended <input type="checkbox"/> Amended as Drilled (BHL) (Also File Form W-1D)						
7. Wellbore Profile (mark ALL appropriate boxes):						
<input checked="" type="checkbox"/> Vertical <input type="checkbox"/> Horizontal (Also File Form W-1H) <input type="checkbox"/> Directional (Also File Form W-1D) <input type="checkbox"/> Sidetrack						
8. Total Depth <b>10500</b>	9. Do you have the right to develop the minerals under any right-of-way? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10. Is this well subject to Statewide Rule 36 (hydrogen sulfide area)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
<b>SURFACE LOCATION AND ACREAGE INFORMATION</b>						
11. RRC District No. <b>08</b>	12. County <b>GLASSCOCK</b>	13. Surface Location <input checked="" type="checkbox"/> Land <input type="checkbox"/> Bay/Estuary <input type="checkbox"/> Inland Waterway <input type="checkbox"/> Offshore				
14. This well is to be located <u>8.1</u> miles in a <u>SE</u> direction from <u>GARDEN CITY</u> which is the nearest town in the county of the well site.						
15. Section <b>31</b>	16. Block <b>32 T4S</b>	17. Survey <b>T&amp;P RR CO</b>				
18. Abstract No. <b>A-79</b>	19. Distance to nearest lease line: <b>3275</b> ft.	20. Number of contiguous acres in lease, pooled unit, or unitized tract: <b>5091</b>				
21. Lease Perpendiculars: <u>3275</u> ft from the <u>WEST</u> line and <u>7222</u> ft from the <u>NORTH</u> line.						
22. Survey Perpendiculars: <u>1980</u> ft from the <u>EAST</u> line and <u>1980</u> ft from the <u>NORTH</u> line.						
23. Is this a pooled unit? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		24. Unitization Docket No:				
25. Are you applying for Substandard Acreage Field? <input type="checkbox"/> Yes (attach Form W-1A) <input checked="" type="checkbox"/> No						
<b>FIELD INFORMATION</b> List all fields of anticipated completion including Wildcat. List one zone per line.						
26. RRC District No.	27. Field No.	28. Field Name (exactly as shown in RRC records)	29. Well Type	30. Completion Depth	31. Distance to Nearest Well in this Reservoir	32. Number of Wells on this lease in this Reservoir
08	33998500	GARDEN CITY, S. (WOLFCAMP)	Oil Well	10500	2964.00	8
08	74080500	R.W.P. (STRAWN)	Oil Well	10500	12453.00	8
<b>BOTTOMHOLE LOCATION INFORMATION is required for DIRECTIONAL, HORIZONTAL, AND AMENDED AS DRILLED PERMIT APPLICATIONS</b>						
<b>Remarks</b> [RRC STAFF Feb 16, 2011 10:41 AM]: Nearest well corrected for the GARDEN CITY, S. (WOLFCAMP) field per plat.				<b>Certificate:</b> I certify that information stated in this application is true and complete, to the best of my knowledge.  <u>Viola Vasquez, Regulatory Analyst</u> <u>Feb 15, 2011</u> Name of filer    Date submitted  <u>(432)683-7443</u> <u>Vvasquez@conchoresources.com</u> Phone    E-mail Address (OPTIONAL)		
<b>RRC Use Only</b> Data Validation Time Stamp: Feb 17, 2011 4:47 PM( 'As Approved' Version )						

Block 32, T-4-S,  
T. & P. RR. Co.

Fnd. I.R. w/cap  
Mkd. "43141"  
(S-19107) 25

(72990) (S-18886)

N 75°26'42" E 5254.39'

30 29

COG OPERATING LLC

31 32

36

(39868)

To Approximate Lease Line  
2221'

1980'

(S-18887) (52568)

N 14°19'48" W 5300.86'

3275'  
To Lease Line

#3113  
EL.  
2525

1980'

S 14°21'20" E  
5300.85'

7230'  
To Approximate Lease Line

2961'

To Lease Line  
8622'

To Lease Line  
12455'

Fnd. 2 rocks  
& Cedar Post

639.6 Acres (Sec. 31)  
Approx. 5091.0 Acres (Lease Total)

Currie "E"

S 75°26'42" W 5256.77'

42 41

37

(S-19113)

(46853)

(S-18890)

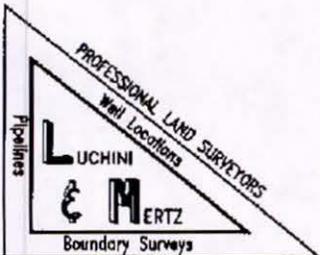
Note: Survey Reconstruction filed in the Office of Luchini and Mertz Land Surveying Company.  
Note: All bearings and coordinates shown are based on the Texas Coordinate System of 1927, Central Zone.  
A combined grid factor of 0.9998632 must be divided into Section Line distances to obtain a true horizontal distance.  
Note: Example: (S-99999) indicates General Land Office file number.  
Note: NAD '27 Coordinates & Latitude/Longitude on well location in Section 31.  
Note: Well location is approximately 8.1 miles southeast of Garden City.

#3113

X: 1685068.21      Latitude - 31.83035682° N  
Y: 788368.65      Longitude - 101.34733309° W  
Latitude - 31°49'49.29"N Longitude - 101°20'50.40"W



Steven L. Prewit  
February 7, 2011  
1102070



Railroad Commission Permit Plat  
COG OPERATING LLC  
Currie "E" Lease  
all of Sections 29, 30, 31, 32, 41, 42, & 44,  
Block 32, T-4-S, & all of  
Section 5, Block 32, T-5-S,  
T. & P. RR. Co.,  
Glasscock County, Texas  
Scale: 1" = 1000'

File No. 112153  
Unit 569 - Annex E  
# 3113 - Unit Designation  
Date Filed: 11-7-11  
By: Jerry E. Patterson, Commissioner

#12

**DO NOT DESTROY**



**Texas General Land Office**  
**UNIT AGREEMENT MEMO**

PA12-578

**Unit Number** 6062  
**Operator Name** COG OPERATING LLC **Effective Date** 6/15/2012  
**Customer ID** C000044811 **Unitized For** Oil & Gas  
**Unit Name** Currie "E" State 3102 **Unit Term** 0 Months  
**County 1** Glasscock  
**County 2** Old Unit Number Inactive Status Date  
**County 3** 0  
**RRC District:** 08 0  
**Unit Type:** Permanent 0  
**State Royalty Interest:** 0.0021733692 0  
**State Part in Unit:** 0.0086934768  
**Unit Depth** All **Well:** Unit  
**Below Depth** 0 **Formation:**  
**Above Depth** 0 **Participation Basis:** Surface Acreage  
*[If Exclusions Apply: See Remarks]*

**MF Number** MF112153 **Tract Number** 1  
**Lease Acres** 1.39 / **Total Unit Acres** 159.89 =  
**Tract Participation:** 0.0086935 X  
**Lease Royalty** 0.25 = **Manual Tract Participation:**  0 **See Remarks**  
**Tract Royalty Participation** 0.0021734 **Manual Tract Royalty:**  0

**Tract Royalty Reduction** No  
**Tract Royalty Rate** 0  
**Tract On-Line Date:**

API Number

421733406900

RRC Number

166150

Remarks:

HROW Unit - Garden City, S. (Wolfcamp).

Prepared By:

Hand

Prepared Date:

12-14-12

GLO Base Updated By:

Hand

GLOBase Date:

12-14-12

RAM Approval By:

Swain

RAM Approval Date:

12-27-12

GIS By:

76

GIS Date:

1-9-13

#122951

BOOK 200 PAGE 766

**DESIGNATION OF POOLED UNIT**

**COG Operating LLC  
Currie "E" State #3102 Pooled Unit  
Glasscock County, Texas**

This Designation of Pooled Unit is made and entered into effective as of June 15, 2012, by and between the undersigned owners of the oil and gas leases described in Exhibit "A" hereof embracing lands in Glasscock County, Texas and by and between the undersigned owners of royalty in and under the lands described in Exhibit "A" hereof.

**WITNESSETH:**

1. Each of said oil and gas leases embraces a portion of the lands within the pooled unit and collectively embraces the entire pooled unit.
2. The owners of said oil and gas leases desire to pool the oil and gas leases described in Exhibit "A" hereof (INSOFAR, but only insofar as said oil and gas leases cover and affect lands lying within the unit area).
3. The owners of the royalty in and under the lands described in Exhibit "A" hereof hereby consent to this Designation of Pooled Unit (INSOFAR, but only insofar as said oil and gas leases cover and affect lands lying within the unit area).
4. The unit area shall consist of 159.89 acres, more or less, in Glasscock County, Texas, as described and referred to in Exhibit "A" hereto as to all depths and formations.
5. The owners of said oil and gas leases commit all of their interest and all interest over which they hold pooling privilege or power by virtue of said oil and gas leases, amendment and/or ratifications thereof, other instruments or by operation of law and which are within the above described unit area to the extent these presents pool said oil and gas leases, the leasehold rights, and royalty interest therein, insofar as said leases, rights and interest cover and affect the lands described in Exhibit "A" for the drilling and production of oil, gas, condensate, casinghead gas and other hydrocarbons hereinafter at times referred to as "pooled mineral."
  - (a) The unit shall be operated as an entirety for the exploration, development, and production of the pooled mineral, rather than as separate tracts.
  - (b) All drilling operations, reworking or other operations with respect to the pooled mineral on lands within the unit shall be considered as though the same were on each separate tract in the unit, regardless of the actual location of the well or wells thereon, for all purposes under the terms of the respective leases or other contracts thereon and this agreement.
  - (c) Production of the pooled mineral from the unit allocated to each separate tract, respectively, as hereinafter provided, shall be deemed to have been produced from each separate tract in the unit, regardless of the actual location of the well or wells thereon, for all purposes under the terms of the respective leases or other contracts thereon and this agreement.
  - (d) All rights to the production of the pooled mineral from the unit, including royalties and other payments, shall be determined and governed by the lease or other contract pertaining to each separate tract, respectively, based upon the production so allocated to such tract only, and in lieu of the actual production of the pooled mineral therefrom.
6. For the purposes of computing the royalty to which each Lessor or royalty owner shall be entitled on production of oil or gas and condensate there shall be allocated to each tract committed to the above referred unit, that pro rata portion from the pooled mineral produced from the pooled unit which the number of surface acres contained in each such tract bears to the total number of surface acres included in the pooled unit.
7. Notwithstanding anything contained elsewhere in this Designation of Pooled Unit, it is expressly understood and agreed that nothing contained in this Designation of Pooled Unit shall modify or affect (i) the continuous development provisions, the horizontal and vertical lease

Designation of Pooled Unit  
Currie "E" State 3102 Pooled Unit

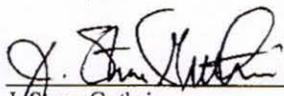
termination provisions or the separate lease provisions contained in Lease No. 1 described on Exhibit "A" attached hereto ("Lease 1"); or (ii) the Lessee's implied covenant to reasonably develop the lands covered by Lease 1, if any. It is further expressly understood and agreed that upon partial termination of Lease 1 pursuant to its terms as to any portion of Tract No. 1 described on Exhibit "A" attached hereto, neither the terminated portion of Lease 1 nor that portion of the mineral interest in said Tract No. 1 that was subject to Lease 1 prior to such partial termination shall remain subject to the terms of this Designation of Pooled Unit. Provided, notwithstanding (i) and (ii) above or other language of this paragraph, a unit well shall be deemed a well on Lease No. 1 for purposes of: (a) extending the continuous development period of Lease No. 1, if and to the extent, but only if and to the extent, it would do so if drilled on Lease No. 1 in the absence of pooling and (b) determining compliance with Lease No. 1's implied duty of reasonable development, if any.

The declaration may be executed in counterpart, none of which needs to be executed by all parties, or may be ratified or consented to by separate instruments and shall be binding upon both parties who have executed such a counterpart, ratification or consent.

IN WITNESS WHEREOF, the parties hereto have executed this agreement upon the respective dates of their acknowledgments.

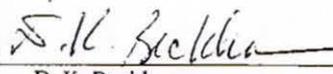
Lessee under Leases 1 & 2:

**COG Operating LLC**

By:   
J. Steve Guthrie  
Vice President of Texas 

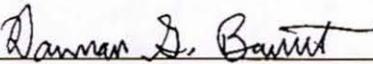
**Chevron Midcontinent, L.P.**

By: Chevron Midcontinent Operations LLC,  
General Partner

By:   
D. K. Beckham  
Attorney-in-Fact

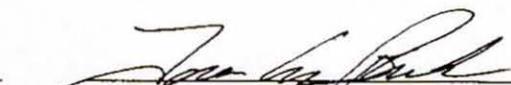
**Baqash Resources LP**

By: Baqash Resources Management LLC,  
General Partner

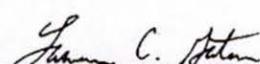
  
Damian G. Barrett, Manager

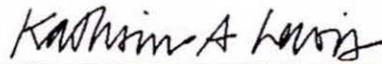
**Tekar Tech, L.P.**

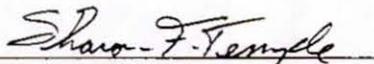
By: TCB Management, LLC,  
General Partner

  
Terence Craig Burkes, President

**L & K Gates Resources LP**

By:   
Lawrence C. Gates, Manager

  
Kathrin A. Lewis

  
Sharon F. Temple

Designation of Pooled Unit  
Currie "E" State 3102 Pooled Unit

**Royalty Owners Under Lease 1:**

**CCH Ranch Investments LP**  
By: CCH Ranch Management LLC  
General Partner

By: Cynthia C. Howard  
Cynthia C. Howard  
President

**DCT Ranch Investments LP**  
By: DCT Ranch Management LLC  
General Partner

By: Darla C. Taylor  
Darla C. Taylor  
President

**ACKNOWLEDGMENTS**

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was acknowledged before me on 10<sup>th</sup> day of October, 2012, by **J. Steve Guthrie**, as Vice President Texas of **COG OPERATING LLC**, a Delaware limited liability company on behalf of said limited liability company.



Romae J. Bell  
Notary Public, State of Texas

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was acknowledged before me on 4<sup>th</sup> day of October, 2012, by **D. K. Beckham**, as Attorney-in-Fact for Chevron Midcontinent Operations LLC, a Delaware limited liability company, as General Partner of **CHEVRON MIDCONTINENT, L.P.**, a Texas limited partnership, on behalf of said limited partnership..



Susanne Strickland  
Notary Public, State of Texas

My commission expires:

11-19-2012

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was acknowledged before me on 15<sup>th</sup> day of August, 2012, by **TERENCE CRAIG BURKES**, as President for TCB Management, LLC, a Texas limited liability company, as General Partner of **TEKAR TECH, L.P.**, a Texas limited partnership, on behalf of said limited partnership.



Romae J. Bell  
Notary Public, State of Texas

Designation of Pooled Unit  
Currie "E" State 3102 Pooled Unit

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was acknowledged before me on 15<sup>th</sup> day of August, 2012, by **DAMIAN G. BARRETT**, as Manager for Baqash Resources Management LLC, a Texas limited liability company, as General Partner of BAQASH RESOURCES LP, a Texas limited partnership, on behalf of said limited partnership.



Romae J. Bell  
Notary Public, State of Texas

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was acknowledged before me on 10<sup>th</sup> day of August, 2012, by **LAWRENCE C. GATES**, as Manager of **L & K GATES RESOURCES LP**, a Texas limited partnership, on behalf of said limited partnership.



Romae J. Bell  
Notary Public, State of Texas

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was acknowledged before me on 30<sup>th</sup> day of August, 2012, by **KATHRIN A. LEWIS**.



Romae J. Bell  
Notary Public, State of Texas

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was personally acknowledged before me on 10<sup>th</sup> day of September, 2012, by **SHARON F. TEMPLE**.

Romae J. Bell  
Notary Public, State of Texas

My commission expires:



Designation of Pooled Unit  
Currie "E" State 3102 Pooled Unit

ACKNOWLEDGMENTS

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was personally acknowledged before me on 8<sup>th</sup> day of August, 2012, by **Cynthia C. Howard**, President of CCH Ranch Management LLC, General partner of **CCH RANCH INVESTMENTS LP**, a Texas limited partnership, on behalf of said limited partnership.



Jean Gladish  
Notary Public, State of Texas

My commission expires:  
\_\_\_\_\_



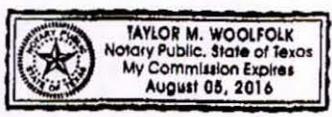
STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was personally acknowledged before me on 7<sup>th</sup> day of August, 2012, by **Darla C. Taylor**, President of DCT Ranch Management LLC, General Partner of **DCT RANCH INVESTMENTS LP**, a Texas limited partnership, on behalf of said limited partnership.

Jana M Woolfolk  
Notary Public, State of Texas

My commission expires:  
8-5-16



Designation of Pooled Unit  
Currie "E" State 3102 Pooled Unit

**EXHIBIT "A"**  
**DESIGNATION OF POOLED UNIT**

**COG Operating LLC**  
**Currie "E" State #3102 Pooled Unit**  
**Glasscock County, Texas**

**Description of Pooled Unit**

**Currie "E" State 3102 Unit**

NW/4 of Section 31, Block 32, Township 4 South, T & P Ry. Co. Survey, A-79, containing 159.89 acres, more or less:

**Tract No. 1**

A tract of land containing 158.50 acres, more or less, being all of NW/4 of Section 31, Block 32, Township 4 South, T & P Ry. Co. Survey, A-79, containing 159.89 acres, more or less, SAVE AND EXCEPT 1.39 acres, more or less, being the right-of way of State Highway 158, described more particularly by metes and bounds in Tract No. 2 below.

**Tract No. 2**

A tract of land containing 1.39 acres, more or less, out of NW/4 of Section 31, Block 32, Township 4 South, T&P Ry. Co. Survey, being the right-of-way of State Highway 158, described more particularly by metes and bounds as shown on the plat attached hereto:

**Leases Committed to Pooled Unit:**

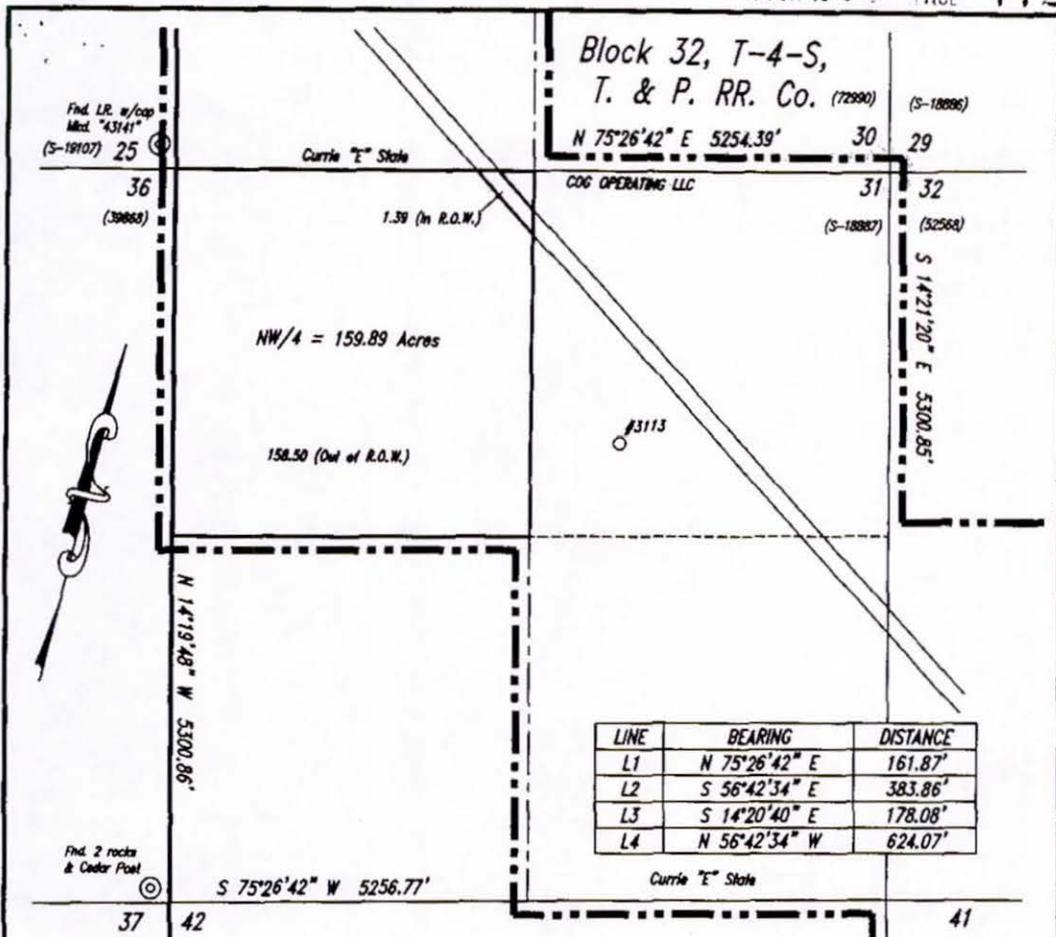
**Lease No. 1**

Lessor: James R. Currie, Individually and as Trustee, joined by his wife, Jimmie R. Currie; Cynthia C. Howard; and Darla C. Taylor.  
Lessee: Henry Petroleum LP  
Date: December 5, 2005  
Recording: Memorandum of Lease recorded Volume 89, Page 652 of Official Public Records of Glasscock County, Texas  
Description: Insofar as and only insofar as said lease covers Tract 1 described above.

**Lease No. 2**

Lessor: Commissioner of the General Land Office of the State of Texas  
Texas General Land Office Lease No. (MF 112153)  
Lessee: COG Operating LLC  
Date: April 5, 2011  
Recording: Volume 166, Page 148 of Official Public Records of Glasscock County, Texas  
Description: Insofar as and only insofar as said lease covers Tract 2 described above.

End of Exhibit "A" to Currie "E" State #3102 Pooled Unit - Designation of Pooled Unit



LINE	BEARING	DISTANCE
L1	N 75°26'42" E	161.87'
L2	S 56°42'34" E	383.86'
L3	S 14°20'40" E	178.08'
L4	N 56°42'34" W	624.07'

**METES AND BOUNDS DESCRIPTION of**  
 A 1.39 Acre Tract out of  
 the NW/4 of Section 31,  
 Block 33, T-4-S, T. & P. RR. Co.,  
 Glasscock County, Texas

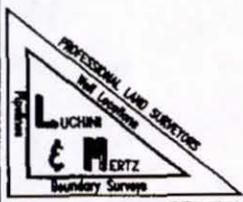
Beginning at a point on the north line of Section 31, Block 33, T-4-S, T. & P. RR. Co. and in the southwest right-of-way of Highway 158, for the most northwesterly corner of this tract, from which the calculated northwest corner of said Section 31 bears S 75°26'42" E 2208.92 feet;  
 Thence N 75°26'42" E, with the north line of said Section 31, 161.87 feet to a point on the north line of said Section 31 and in the northeast right-of-way of said Highway 158, for the most northeasterly corner of this tract;  
 Thence S 56°42'34" E, with the northeast right-of-way of said Highway 158, 383.86 feet to a point in the northeast right-of-way of said Highway 158 and on the east line of the northwest quarter (NW/4) of said Section 31, for the most southeasterly corner of this tract;  
 Thence S 14°20'40" E, with the east line of the northwest quarter (NW/4) of said Section 31, 178.08 feet to a point on the east line of the northwest quarter (NW/4) of said Section 31 and in the southwest right-of-way of said Highway 158 for the most southwesterly corner of this tract;  
 Thence N 56°42'34" W, with the southwest right-of-way of said Highway 158, 624.07 feet to the point of beginning.

Note: Survey Reconstruction filed in the Office of Luchini and Mertz Land Surveying Company.  
 Note: All bearings and coordinates shown are based on the Texas Coordinate System of 1927, Central Zone.  
 A combined grid factor of 0.999966179 must be divided into Section Line distances to obtain a true horizontal distance.  
 Note: Example: (S-99999) indicates General Land Office file number.



*Steven L. Prewitt*  
 March 10, 2011  
 1103100H1B

Plot  
 COG OPERATING LLC  
 1.39 Acre Tract out of  
 the NW/4 of Section 31,  
 Block 33, T-4-S  
 T. & P. RR. Co.  
 Glasscock County, Texas



FILED  
AT 8:00 O'CLOCK A M  
ON THE 22 DAY OF OCT  
A.D., 2012  
INS. NO. 1223151

STATE OF TEXAS  
COUNTY OF GLASSCOCK

I hereby certify that this instrument was FILED on the date and at the time stamped hereon by me and was duly RECORDED in the Volume and Page of the named RECORDS of Glasscock County, Texas, as stamped hereon by me.



Rebecca Badla  
County Clerk, Glasscock County, Texas

Rebecca Badla  
COUNTY CLERK, GLASSCOCK COUNTY, TEXAS

BY *Mona J. Miller*  
DEPUTY

OFFICIAL PUBLIC RECORDS  
VOL. 200 PAGE 766  
RECORDED OCT 22, 2012



**Information for Highway Right-of-Way Unit Declaration**

Texas General Land Office  
Jerry Patterson, Commissioner  
1700 North Congress Avenue  
Austin, Texas 78701-1495

**OPERATOR INFORMATION**

Contact Name: Mr. Joe Dutton Phone ( 432 ) 818-2211  
Name of Pooled Unit Currie "E" State 3102 Pooled Unit  
Operator of Pooled Unit COG Operating LLC County Glasscock  
Operator TAX ID # 61-1469854  
**Effective Date of Unit Declaration:** June 15, 2012

**HROW LEASE(S) IN UNIT**

<u>HROW State Lease No.</u>	<u>Lease Date</u>	<u>Term</u>	<u>HROW Royalty</u>	<u>Total Lease Acreage</u>	<u>Lease Acreage in Unit</u>	<u>Lessee of Record</u>
-----------------------------	-------------------	-------------	---------------------	----------------------------	------------------------------	-------------------------

Total HROW Acreage In Unit = 1.39 Ac.

State's Net Revenue Interest in Unit: .00217336

Total Private Acreage In Unit = 158.50 Ac.

Total Acreage In Pooled Unit = 159.89 Ac.

Attach a plat showing the pooled unit outline, unit well(s) location, and HROW lease tracts.

Type of Mineral Pooled:  Oil  Gas  Oil & Gas

Pooled Interval: All Depths All Depths Top Depth \_\_\_\_\_ Base Depth \_\_\_\_\_

If pooling a Formation(s) please list Formation Name: All formations

RRC Field Name(s): Garden City, S. (Wolfcamp) Field

**UNIT WELL(S)**

API #	<u>42-173-34069</u>	RRC ID#	<u>166150</u>
API #	<u>42-173-35108</u>	RRC ID#	<u>166150</u>
API #	<u>42-173-34028</u>	RRC ID#	<u>166150</u>
API #	_____	RRC ID#	_____

PA12-578  
6062

mF112153

**From:** Romae Bell <rbell@concho.com>  
**To:** "beverly.boyd@glo.texas.gov" <beverly.boyd@glo.texas.gov>  
**Date:** 12/11/2012 9:08 AM  
**Subject:** Designation of Pooled Unit - HROW Declaration.pdf  
**Attachments:** Designation of Pooled Unit - HROW Declaration.pdf

Good Morning Beverly:

Attached for your further handling is a completed Information for Highway Right-of-Way Unit Declaration along with a recorded copy of a Designation of Pool Unit for the Currie "E" State #3102 Well located in Glasscock County, Texas.

As soon as I received the certified copy of the Correction Assignment, I will forward on to you.

If you have any questions or need additional information, please feel free to contact me at 432-818-2203. Thank you so much for all your help.

Romae

Romae Bell  
Land Coordinator  
COG OPERATING LLC  
One Concho Center  
600 W. Illinois Avenue  
Midland, TX 79701

Phone: 432.683.7443  
Direct: 432.818.2203  
Fax: 432.221.0863

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#1

File No. MF112153  
Unit 6062 - Currie E "3102"

Date Filed: 12-14-17  
Jerry E. Patterson, Commissioner

By B. Boyd

( KEEP THIS COPY FOR YOUR RECORDS )



### DIVISION ORDER

To: Plains Marketing L.P.  
P.O. Box 4648  
Houston, TX 77210-4648

Date: 08/13/2013  
Property Descr: SEE EXHIBIT 'A'  
Effective 7 A.M.: 06/01/2013

Owner Number  
**0062639**  
Property Number:  
**01 191641**

Property Name: CURRIE E STATE 4104  
Operator: COG OPERATING LLC  
County and State: GLASSCOCK, TX  
Production: OIL / CONDENSATE ( GAS )

Decimal Interest: 0.00720146  
Type of Interest: RI  
ROYALTY INTEREST

Owner Name and Address: COMMISSIONER GENERAL LD OFFICE  
STATE OF TEXAS  
1700 NORTH CONGRESS AVENUE  
AUSTIN, TX 78701

COMMISSIONER GENERAL LD OFFICE  
STATE OF TEXAS  
1700 NORTH CONGRESS AVENUE  
AUSTIN, TX 78701

[Correspondence Address]

[Remittance Address]

The undersigned severally and not jointly certifies the ownership of their decimal interest in production or proceeds as described above payable by Plains Marketing, L.P. (hereinafter called "Payor").

Payor shall be notified, in writing, of any change in ownership, decimal interest, or payment address. All such changes shall be effective the first day of the month following receipt of such notice.

Payor is authorized to withhold payment pending resolution of a title dispute or adverse claim asserted regarding the interest in production claimed herein by the undersigned. The undersigned agrees to reimburse Payor any amount attributable to an interest to which the undersigned is not entitled. Unless otherwise required by law, Payor shall not be required to pay interest on payments withheld due to a title dispute or adverse claim.

Payments of less than \$25.00 may be accrued before disbursement until the total amount equals \$25.00 or more, or until December 31 of each year, whichever occurs first.

This Division Order does not amend any lease or operating agreement between the undersigned and the lessee or operator or any other contracts for the purchase of oil or gas.

The undersigned will be paid in accordance with the division of interests set out above. As to oil and/or condensate, the Payor shall pay all parties at the price agreed to by the operator for oil and/or condensate to be sold pursuant to this division order. Payor shall compute quantity and make corrections for gravity and temperature and make deductions for impurities. As to gas, the undersigned will be paid in accordance with the division of interest set forth herein. The Payor will pay all parties for their respective interest in the gas proceeds paid to Payor by the operator for disbursement at the price and upon the terms agreed to by the operator for the gas marketed by the operator. Payor is a disbursement service provider only and does not purchase the gas nor take title to the gas. The operator is responsible for marketing gas produced from the property described in the attached property description. Payor does not assume any obligations of the lessee or operator under any oil and gas lease, gas sales contract or other agreement to which Payor is not a party.

In addition to the terms and conditions of this Division Order, the undersigned and Payor may have certain statutory rights under the laws of the state in which the property is located.

Special Clauses/Requirements: If applicable, see Exhibit 'A'.

Owner Social Security #  
or Taxpayer ID #: 74-6000108  
Owner Daytime Telephone #:  
Owner FAX #:  
Email Address:

Owner BY: \_\_\_\_\_  
Signature: OWNER #: 0062639  
TITLE: \_\_\_\_\_

Signature of two  
Witnesses/Attest \_\_\_\_\_

**FEDERAL LAW REQUIRES YOU TO FURNISH YOUR SOCIAL SECURITY OR TAXPAYER IDENTIFICATION NUMBER.  
FAILURE TO COMPLY WILL RESULT IN 28% TAX WITHHOLDING AND WILL NOT BE REFUNDABLE BY PAYOR.**

( KEEP THIS COPY FOR YOUR RECORDS )

**EXHIBIT 'A'**

**PROPERTY NUMBER: 01 191641**

**OWNER: 0062639**

<u>OWNER</u>	<u>NAME/ADDRESS</u>	<u>SSN/TIN</u>	<u>INTEREST</u>	<u>TYPE</u>	<u>PAY ST</u>	<u>EFFECTIVE</u>	<u>CLAUSES</u>	<u>REQUIREMENTS</u>
0062639	COMMISSIONER GENERAL LD OFFICE STATE OF TEXAS 1700 NORTH CONGRESS AVENUE AUSTIN, TX 78701	74-6000108	0.00720146	RI	3U	06/01/2013	1	N/A

**CLAUSES**

- 1 EFFECTIVE WITH JUNE 2013 PRODUCTION, PLAINS MARKETING, L.P. WAS DESIGNATED AS OIL PURCHASER FOR THE CURRIE E STATE 4104 LEASE BY THE OPERATOR, COG OPERATING LLC. THIS DIVISION ORDER WAS PREPARED BASED ON INFORMATION PROVIDED BY THE OPERATOR.

LEGAL DESCRIPTION

SE/4 SECTION 41, BLOCK 32, T-4-S, T&P RR CO SURVEY  
GLASSCOCK COUNTY, TX

File No. 112-153

DIVISION ORDER

Date Filed: 08/19/13  
Jerry E. Patterson, Commissioner

By: 

# DO NOT DESTROY



## Texas General Land Office UNIT AGREEMENT MEMO

UPA148010

Unit Number 6683  
Operator Name Cog Operating Llc Effective Date 03/25/2013  
Customer ID Unitized For Oil And Gas  
Unit Name Currie "E" State #3108 Pooled Unit Unit Term  
County 1 Glasscock RRC District 1 08 Old Unit Number Inactive Status Date  
County 2 RRC District 2  
County 3 RRC District 3  
County 4 RRC District 4  
Unit type Permanent  
State Net Revenue Interest 0.00644610  
State Part in Unit 0.02578441  
Unit Depth Allow All Depths Well  
From Depth Formation  
To Depth Participation Basis Surface Acreage  
If Exclusions Apply: See Remarks

Lease Number	Tract No	Lease Acres in Unit	Total Unit Acres	Tract Participation	Lease Royalty	Tract Royalty Participation	Royalty Rate Reduction Clause
MF112153	1	4.15	160.95	0.025784	0.25000000	0.006446	No

API Number

4217335472 ✓

Remarks:

Prepared By:

Mark Adm

Prepared Date:

1/15/14

GLO Base Updated By:

Mark Adm

GLO Base Date:

1/15/14

RAM Approval By:

RAM

RAM Approval Date:

1/16/14

GIS By:

EG

GIS Date:

2-26-14

Well Inventory By:

MB

WI Date:

1/15/14

# Pooling Committee Report

To: School Land Board

UPA148010

Date of Board Meeting:

Unit Number: 6683

Effective Date: 03/25/2013

Unit Expiration Date:

Applicant:

Attorney Rep:

Operator: Cog Operating Llc

Unit Name: Currie "E" State #3108 Pooled Unit

Field Name: Garden City, S. (Wolfcamp)

County:

<u>Lease Type</u>	<u>Lease Number</u>	<u>Lease Royalty</u>	<u>Expiration Date</u>	<u>Lease Term</u>	<u>Lease Acres</u>	<u>Lease Acres In Unit</u>	<u>Royalty Participation</u>
HROW	MF112153	0.25000000	04/05/2014	3 years	75.320	4.150	0.00644610

<b>Private Acres:</b>	156.800000
<b>State Acres:</b>	4.150000
<b>Total Unit Acres:</b>	160.950000

<b>Participation Basis:</b>	Surface Acreage
Surface Acreage	
<b>State Acreage:</b>	2.58%
<b>State Net Revenue Interest:</b>	0.64%

<b>Unit Type:</b>	<b>Unitized for:</b>
Permanent	Oil And Gas
<b>Term:</b>	

<b>RRC Rules:</b>	<b>Spacing Acres:</b>
No	

**Information for Highway Right-of-Way Unit Declaration**

Texas General Land Office  
 Jerry Patterson, Commissioner  
 1700 North Congress Avenue  
 Austin, Texas 78701-1495

**OPERATOR INFORMATION**

Contact Name: Mr. Joe Dutton Phone (432) 818-2211  
 Name of Pooled Unit Currie E State 3108  
 Operator of Pooled Unit COG Operating LLC County Glasscock  
 Effective Date of Unit Declaration: March 25, 2013

**HROW LEASE(S) IN UNIT**

HROW State Lease No.	Lease Date	Term	HROW Royalty	Total Lease Acreage	Lease Acreage in Unit
MF-112153	4/5/2011	3 years	1/4	75.32	4.15

Total Acreage In Pooled Unit 160.95 Ac. ✓  
 State's Royalty Revenue Interest in Unit: 0.644610% Total HROW Acreage In Unit 4.15 Ac. ✓  
 Total Private Acreage In Unit 156.80 Ac.

Attach a plat showing the pooled unit outline, unit well(s) location, and HROW lease tracts.

Type of Mineral Pooled:  Oil  Gas  Oil & Gas  
 Pooled Interval: All Depths X Top Depth \_\_\_\_\_ Base Depth \_\_\_\_\_  
 If pooling a Formation(s) please list Formation Name: All Formations  
 RRC Field Name(s): Garden City, S. (Wolfcamp Field)

**UNIT WELL(S)**

API # 42-173-35472 RRC ID# 166150  
 API # \_\_\_\_\_ RRC ID# \_\_\_\_\_  
 API # \_\_\_\_\_ RRC ID# \_\_\_\_\_  
 API # \_\_\_\_\_ RRC ID# \_\_\_\_\_

*Recvd. 11/1/13*

#132855

**DESIGNATION OF POOLED UNIT**

**COG Operating LLC  
Currie "E" State #3108 Pooled Unit  
Glasscock County, Texas**

This Designation of Pooled Unit is made and entered into effective as of March 25, 2013, by and between the undersigned owners of the oil and gas leases described in Exhibit "A" hereof embracing lands in Glasscock County, Texas and by and between the undersigned owners of royalty in and under the lands described in Exhibit "A" hereof.

WITNESSETH:

1. Each of said oil and gas leases embraces a portion of the lands within the pooled unit and collectively embraces the entire pooled unit.

2. The owners of said oil and gas leases desire to pool the oil and gas leases described in Exhibit "A" hereof (INSOFAR, but only insofar as said oil and gas leases cover and affect lands lying within the unit area).

3. The owners of the royalty in and under the lands described in Exhibit "A" hereof hereby consent to this Designation of Pooled Unit (INSOFAR, but only insofar as said oil and gas leases cover and affect lands lying within the unit area).

4. The unit area shall consist of 160.95 acres, more or less, in Glasscock County, Texas, as described and referred to in Exhibit "A" hereto as to all depths and formations.

5. The owners of said oil and gas leases commit all of their interest and all interest over which they hold pooling privilege or power by virtue of said oil and gas leases, amendment and/or ratifications thereof, other instruments or by operation of law and which are within the above described unit area, and by these presents do hereby pool said oil and gas leases, the leasehold rights, and royalty interest therein, insofar as said leases, rights and interest cover and affect the lands described in Exhibit "A" for the drilling and production of oil, gas, condensate, casinghead gas and other hydrocarbons hereinafter at times referred to as "pooled mineral."

(a) The unit shall be operated as an entirety for the exploration, development, and production of the pooled mineral, rather than as separate tracts.

(b) All drilling operations, reworking or other operations with respect to the pooled mineral on lands within the unit shall be considered as though the same were on each separate tract in the unit, regardless of the actual location of the well or wells thereon, for all purposes under the terms of the respective leases or other contracts thereon and this agreement.

(c) Production of the pooled mineral from the unit allocated to each separate tract, respectively, as hereinafter provided, shall be deemed to have been produced from each separate tract in the unit, regardless of the actual location of the well or wells thereon, for all purposes under the terms of the respective leases or other contracts thereon and this agreement.

(d) All rights to the production of the pooled mineral from the unit, including royalties and other payments, shall be determined and governed by the lease or other contract pertaining to each separate tract, respectively, based upon the production so allocated to such tract only, and in lieu of the actual production of the pooled mineral therefrom.

6. For the purposes of computing the royalty to which each Lessor or royalty owner shall be entitled on production of oil or gas and condensate there shall be allocated to each tract committed to the above referred unit, that pro rata portion from the pooled mineral produced from the pooled unit which the number of surface acres contained in each such tract bears to the total number of surface acres included in the pooled unit.

7. Notwithstanding anything contained elsewhere in this Designation of Pooled Unit, it is expressly understood and agreed that nothing contained in this Designation of Pooled Unit shall modify or affect (i) the continuous development provisions, the horizontal and vertical lease

Designation of Pooled Unit  
Currie "E" State 3108 Pooled Unit

termination provisions or the separate lease provisions contained in Lease No. 1 described on Exhibit "A" attached hereto ("Lease 1"); or (ii) the Lessee's implied covenant to reasonably develop the lands covered by Lease 1, if any. It is further expressly understood and agreed that upon partial termination of Lease 1 pursuant to its terms as to any portion of Tract No. 1 described on Exhibit "A" attached hereto, neither the terminated portion of Lease 1 nor that portion of the mineral interest in said Tract No. 1 that was subject to Lease 1 prior to such partial termination shall remain subject to the terms of this Designation of Pooled Unit. Provided, notwithstanding (i) and (ii) above or other language of this paragraph, a unit well shall be deemed a well on Lease No. 1 for purposes of: (a) extending the continuous development period of Lease No. 1, if and to the extent, but only if and to the extent, it would do so if drilled on Lease No. 1 in the absence of pooling and (b) determining compliance with Lease No. 1's implied duty of reasonable development, if any.

The declaration may be executed in counterpart, none of which needs to be executed by all parties, or may be ratified or consented to by separate instruments and shall be binding upon both parties who have executed such a counterpart, ratification or consent.

IN WITNESS WHEREOF, the parties hereto have executed this agreement upon the respective dates of their acknowledgments.

Lessee under Leases 1 & 2:

**COG Operating LLC**

**Chevron Midcontinent, L.P.**

By: Chevron Midcontinent Operations LLC,  
General Partner

By: Mona D. Ables  
Mona D. Ables  
Vice President of Land *MDA*

By: \_\_\_\_\_  
D. K. Beckham  
Attorney-in-Fact

**Baqash Resources LP**

By: Baqash Resources Management LLC.  
General Partner

**Tekar Tech, L.P.**

By: TCB Management, LLC.  
General Partner

Damian G. Barrett  
Damian G. Barrett, Manager

Terence Craig Burkes  
Terence Craig Burkes, President

**L & K Gates Resources LP**

By: Lawrence C. Gates  
Lawrence C. Gates, Manager

\_\_\_\_\_  
Kathrin A. Lewis

\_\_\_\_\_  
Sharon F. Temple

Designation of Pooled Unit  
Currie "E" State 3108 Pooled Unit

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The declaration may be executed in counterpart, none of which needs to be executed by all parties, or may be ratified or consented to by separate instruments and shall be binding upon both parties who have executed such a counterpart, ratification or consent.

IN WITNESS WHEREOF, the parties hereto have executed this agreement upon the respective dates of their acknowledgments.

Lessee under Leases 1 & 2:

**COG Operating LLC**

By: Mona D. Ables  
Mona D. Ables  
Vice President of Land *MDA*

**Chevron Midcontinent, L.P.**

By: Chevron Midcontinent Operations LLC,  
General Partner

By: D.K. Beckham  
D. K. Beckham  
Attorney-in-Fact

**Baqash Resources LP**

By: Baqash Resources Management LLC.  
General Partner

Damian G. Barrett  
Damian G. Barrett, Manager

**Tekar Tech, L.P.**

By: TCB Management, LLC.  
General Partner

Terence Craig Burkes  
Terence Craig Burkes, President

**L & K Gates Resources LP**

By: Lawrence C. Gates  
Lawrence C. Gates, Manager

Kathrin A. Lewis  
Kathrin A. Lewis

Sharon F. Temple

Designation of Pooled Unit  
Currie "E" State 3108 Pooled Unit

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The declaration may be executed in counterpart, none of which needs to be executed by all parties, or may be ratified or consented to by separate instruments and shall be binding upon both parties who have executed such a counterpart, ratification or consent.

IN WITNESS WHEREOF, the parties hereto have executed this agreement upon the respective dates of their acknowledgments.

Lessee under Leases 1 & 2:

**COG Operating LLC**

**Chevron Midcontinent, L.P.**

By: Chevron Midcontinent Operations LLC,  
General Partner

By: Mona D. Ables  
Mona D. Ables  
Vice President of Land *MDA*

By: \_\_\_\_\_  
D. K. Beckham  
Attorney-in-Fact

**Baqash Resources LP**

By: Baqash Resources Management LLC.  
General Partner

**Tekar Tech, L.P.**

By: TCB Management, LLC.  
General Partner

Damian G. Barrett  
Damian G. Barrett, Manager

Terence Craig Burkes  
Terence Craig Burkes, President

**L & K Gates Resources LP**

By: Lawrence C. Gates  
Lawrence C. Gates, Manager

\_\_\_\_\_  
Kathrin A. Lewis

Sharon F. Temple  
Sharon F. Temple

Designation of Pooled Unit  
Currie "E" State 3108 Pooled Unit

**Royalty Owners Under Lease 1:**

**CCH Ranch Investments LP**  
By: CCH Ranch Management LLC  
General Partner

**DCT Ranch Investments LP**  
By: DCT Ranch Management LLC  
General Partner

By: Cynthia C. Howard  
Cynthia C. Howard  
President

By: Darla C. Taylor  
Darla C. Taylor  
President

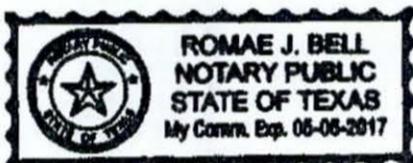
**ACKNOWLEDGMENTS**

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was acknowledged before me on 12<sup>th</sup> day of July, 2013,  
by **MONA D. ABLES**, as Vice President of Land of **COG OPERATING/LLC**, a Delaware  
limited liability company on behalf of said limited liability company.

Romae J. Bell  
Notary Public, State of Texas

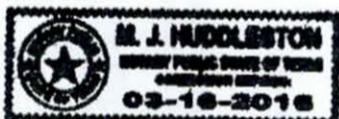


STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was acknowledged before me on 3<sup>rd</sup> day of October, 2013,  
by **D. K. BECKHAM**, as Attorney-in-Fact for Chevron Midcontinent Operations LLC, a  
Delaware limited liability company, as General Partner of **CHEVRON MIDCONTINENT,**  
L.P., a Texas limited partnership, on behalf of said limited partnership..

M. J. Huddleston  
Notary Public, State of Texas



My commission expires:

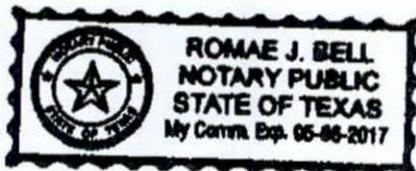
3/16/2016

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was acknowledged before me on 5<sup>th</sup> day of September, 2013,  
by **TERENCE CRAIG BURKES**, as President for TCB Management, LLC, a Texas limited  
liability company, as General Partner of **TEKAR TECH, L.P.**, a Texas limited partnership, on  
behalf of said limited partnership.

Romae J. Bell  
Notary Public, State of Texas

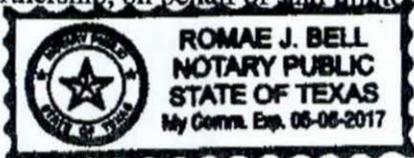


Designation of Pooled Unit  
Currie "E" State 3108 Pooled Unit

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was acknowledged before me on 3<sup>rd</sup> day of September, 2013, by **DAMIAN G. BARRETT**, as Manager for Baqash Resources Management LLC, a Texas limited liability company, as General Partner of BAQASH RESOURCES LP, a Texas limited partnership, on behalf of said limited partnership.

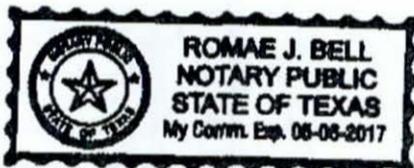


Romae J. Bell  
Notary Public, State of Texas

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was acknowledged before me on 3<sup>rd</sup> day of September, 2013, by **LAWRENCE C. GATES**, as Manager of **L & K GATES RESOURCES LP**, a Texas limited partnership, on behalf of said limited partnership.

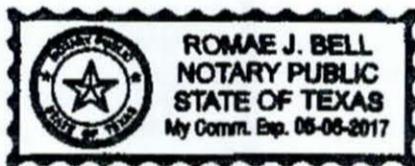


Romae J. Bell  
Notary Public, State of Texas

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was acknowledged before me on 11<sup>th</sup> day of September, 2013, by **KATHRIN A. LEWIS**.



Romae J. Bell  
Notary Public, State of Texas

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was personally acknowledged before me on 1<sup>st</sup> day of October, 2013 by **SHARON F. TEMPLE**.

Romae J. Bell  
Notary Public, State of Texas

My commission expires:



Designation of Pooled Unit  
Currie "E" State 3108 Pooled Unit

**ACKNOWLEDGMENTS**

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was personally acknowledged before me on 24<sup>th</sup> day of July, 2013, by **CYNTHIA C. HOWARD**, President of CCH Ranch Management LLC, General partner of **CCH RANCH INVESTMENTS LP**, a Texas limited partnership, on behalf of said limited partnership.



Jean Gladish  
Notary Public, State of Texas

My commission expires:

\_\_\_\_\_

STATE OF TEXAS

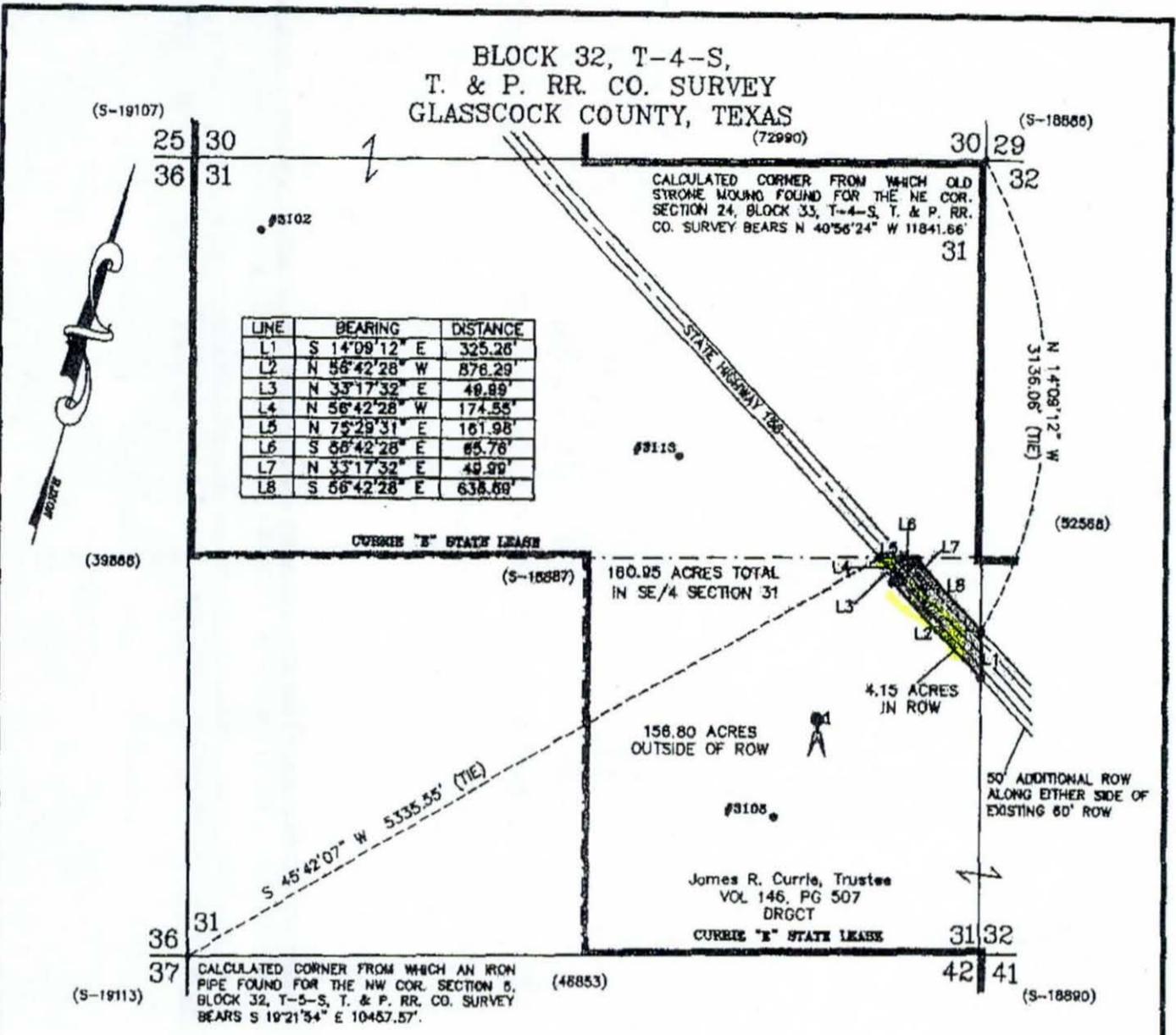
COUNTY OF MIDLAND

This instrument was personally acknowledged before me on 25<sup>th</sup> day of July, 2013, by **DARLA C. TAYLOR**, President of DCT Ranch Management LLC, General Partner of **DCT RANCH INVESTMENTS LP**, a Texas limited partnership, on behalf of said limited partnership.



Paula A. Ritz  
Notary Public, State of Texas

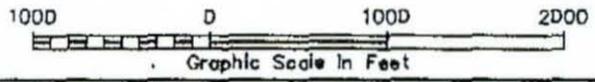
My commission expires  
December 31, 2013



SEE SHEET 2 OF 2 FOR A FIELD NOTE DESCRIPTION OF THIS TRACT OF LAND

**LEGEND**

- ⊙ - Denotes Set Spike with metal washer Marked "WEST CO. MIDLAND"
- - Denotes Calculated Corner
- - Denotes Producing Well Location
- (S-27758) - Denotes General Land Office File No.
- — — - Denotes Lease Line



**NOTE:**

- 1) Plane Coordinates, Bearings and Distances shown hereon are Lambert Grid and Conform to the "Texas Coordinate System", Texas Central Zone, North American Datum of 1927. Acreages shown hereon are mean surface values.
- 2) Geodetic Coordinate shown hereon references the North American Datum of 1927, (Clarke Spheroid of 1886).
- 3) See information filed in the office of this Surveyor which describes the reconstruction of this Tract.

I HEREBY CERTIFY THAT THIS STATE WAS MADE FROM NOTES TAKEN IN THE FIELD IN A STATE SURVEY MADE UNDER MY SUPERVISION.

*Waide Mertz*  
 WAIDE MERTZ TEXAS R.P. SURVEYOR  
 REGISTERED PROFESSIONAL SURVEYOR  
 4082

**WEST COMPANY**  
 of Midland, Inc.

110 W. LOUISIANA, STE. 110  
 MIDLAND TEXAS, 79701-3414  
 OFFICE: (432)887-0865 FAX: (432)887-0888  
 Web Page: www.team-west.com  
 Email: survey@team-west.com

**COG OPERATING, LLC**

TRACT SURVEY  
 4.15 ACRES IN STATE HIGHWAY 158 ROW  
 OUT OF THE SE/4 OF  
 SECTION 31, BLOCK 32, T-4-S,  
 T. & P. RR. CO. SURVEY  
 GLASSCOCK CO., TEXAS

Drawn By: D.E.H.	Date: June 6, 2013
Scale: 1"=1000'	Revised:
Sheet 1 of 2	Field Note Book: COG 1002/3-4
W.O. No: 2013-0879-01	Org. No.: 2013-0879-01_SE-4_31.DWG

© COPYRIGHT 2013 ALL RIGHTS RESERVED

FILED  
AT 10:00 O'CLOCK A M  
ON THE 18 DAY OF Oct.  
A.D., 2013  
INS. NO. 132855

*Rebecca Bada*

COUNTY CLERK, GLASSCOCK COUNTY, TEXAS

BY *Adriana Ramirez*  
DEPUTY

STATE OF TEXAS  
COUNTY OF GLASSCOCK

I hereby certify that this instrument was FILED on the date and at the time stamped hereon by me and was duly RECORDED in the Volume and Page of the named RECORDS of Glasscock County, Texas, as stamped hereon by me.



*Rebecca Bada*

County Clerk, Glasscock County, Texas

OFFICIAL PUBLIC RECORDS

VOL. 231 PAGE 449  
RECORDED Oct. 18, 2013

Designation of Pooled Unit  
Currie "E" State 3108 Pooled Unit

**EXHIBIT "A"**  
**DESIGNATION OF POOLED UNIT**

**COG Operating LLC**  
**Currie "E" State #3108 Pooled Unit**  
**Glasscock County, Texas**

**Description of Pooled Unit**

**Currie "E" State 3108 Unit**

SE/4 of Section 31, Block 32, Township 4 South, T & P Ry. Co. Survey, A-79, containing 160.95 acres, more or less:

**Tract No. 1**

A tract of land containing 156.8 acres, more or less, being all of SE/4 of Section 31, Block 32, Township 4 South, T & P Ry. Co. Survey, A-79, containing 160.95 acres, more or less, SAVE AND EXCEPT 4.15 acres, more or less, being the right-of way of State Highway 158, described more particularly by metes and bounds in Tract No. 2 below.

**Tract No. 2**

A tract of land containing 4.15 acres, more or less, out of SE/4 of Section 31, Block 32, Township 4 South, T&P Ry. Co. Survey, being the right-of-way of State Highway 158, described more particularly by metes and bounds as shown on the plat attached hereto:

**Leases Committed to Pooled Unit:**

**Lease No. 1**

Lessor: James R. Currie, Individually and as Trustee, joined by his wife, Jimmie R. Currie; Cynthia C. Howard; and Darla C. Taylor.  
Lessee: Henry Petroleum LP  
Date: December 5, 2005  
Recording: Memorandum of Lease recorded Volume 89, Page 652 of Official Public Records of Glasscock County, Texas  
Description: Insofar as and only insofar as said lease covers Tract 1 described above.

**Lease No. 2**

Lessor: Commissioner of the General Land Office of the State of Texas  
Lease No. (MF 112153)  
Lessee: COG Operating LLC  
Date: April 5, 2011  
Recording: Volume 166, Page 148 of Official Public Records of Glasscock County, Texas  
Description: Insofar as and only insofar as said lease covers Tract 2 described above.

End of Exhibit "A" to Currie "E" State #3108 Pooled Unit - Designation of Pooled Unit

EXHIBIT "A"

LEGAL DESCRIPTION

BEING a 4.15 acre tract of land out of a tract belonging to James R. Currie, Trustee, according to Volume 148, Page 507, Deed Records Glasscock County Texas, located in the southeast quarter (SE/4) of Section 31, Block 32, T-4-S, T. & P. RR. Co. Survey, Glasscock County, Texas and being more particularly described as follows:

BEGINNING at a spike with a metal washer marked "WEST CO. MIDLAND" set in the north right-of-way of State Highway 158, and on the east line of said Section 31, for the most easterly northeast corner of this tract, from which the calculated northeast corner of said Section 31 bears N 14°09'12" W, a distance of 3135.61 feet, from said calculated corner, an old stone mound found for the northeast corner of Section 24, Block 33, T-4-S, T. & P. RR. Co. Survey bears N 40°58'24" W, a distance of 11839.97 feet;

THENCE S 14°09'12" E, with the east line of said Section 31, common with the west line of Section 32, Block 32, T-4-S, T. & P. RR. Co. Survey, a distance of 325.26 feet to a spike with a metal washer marked "WEST CO. MIDLAND" set on the east line of said Section 31 and in the south right-of-way of said State Highway 158 for the most southerly corner of this tract;

THENCE N 56°42'28" W, with the south right-of-way of said State Highway 158, a distance of 876.29 feet to a spike with a metal washer marked "WEST CO. MIDLAND" set in the south right-of-way of said State Highway 158 for a corner of this tract;

THENCE N 33°17'32" E, with the south right-of-way of said State Highway 158, a distance of 49.99 feet to a spike with a metal washer marked "WEST CO. MIDLAND" set in the south right-of-way of said State Highway 158 for an interior corner of this tract;

THENCE N 56°42'28" W, with the south right-of-way of said State Highway 158, a distance of 174.55 feet to a spike with a metal washer marked "WEST CO. MIDLAND" set in the south right-of-way of said State Highway 158 and on the north line of the southeast quarter (SE/4) of said Section 31 for the most northwesterly corner of this tract, from which the calculated southwest corner of said Section 31 bears S 45°42'07" W, a distance of 5334.79 feet, from said calculated corner, an iron pipe found for the northwest corner of Section 6, Block 32, T-6-S, T. & P. RR. Co. Survey bears S 19°21'54" E, a distance of 10456.08 feet;

THENCE N 75°29'31" E, with the north line of the southeast quarter (SE/4) of said Section 31, a distance of 161.96 feet to a spike with a metal washer marked "WEST CO. MIDLAND" set on the north line of the southeast quarter (SE/4) of said Section 31 and in the north right-of-way of said State Highway 158 for the most northerly northeast corner of this tract;

THENCE S 56°42'28" E, with the north right-of-way of said State Highway 158, a distance of 65.76 feet to a spike with a metal washer marked "WEST CO. MIDLAND" set for an interior corner of this tract;

THENCE N 33°17'32" E, with the north right-of-way of said State Highway 158, a distance of 49.99 feet to a spike with a metal washer marked "WEST CO. MIDLAND" set for a corner of this tract;

THENCE S 56°42'28" E, with the north right-of-way of said State Highway 158, a distance of 636.89 feet to the POINT OF BEGINNING and containing 4.15 acres of land.

SEE SHEET 1 OF 2 FOR A DETAILED SKETCH OF THIS TRACT OF LAND

NOTE:

- 1) Plane Coordinates, Bearings and Distances shown hereon are Lambert Grid and Conform to the "Texas Coordinate System", Texas Central Zone, North American Datum of 1927. Acreages shown hereon are mean surface values.
- 2) Geodetic Coordinate shown hereon references the North American Datum of 1927, (Clarke Spheroid of 1866).
- 3) See information filed in the office of this Surveyor which describes the reconstruction of this Tract.

I HEREBY CERTIFY THAT THIS PLAN AND NOTES TAKEN IN THE FIELD IN A TRACT MADE UNDER MY SUPERVISION.

*Waide Mertz*  
WAIDE MERTZ TEXAS R.P. SURVEYOR

**WEST COMPANY**

of Midland, Inc.  
110 W. LOUISIANA, STE. 110  
MIDLAND TEXAS, 79701-3414  
OFFICE: (432)887-0865 FAX: (432)887-0868  
Web Page: www.team-west.com  
Email: survey@team-west.com



<b>COG OPERATING, LLC</b>	
TRACT SURVEY 4.15 ACRES IN STATE HIGHWAY 158 ROW OUT OF THE SE/4 OF SECTION 31, BLOCK 32, T-4-S, T. & P. RR. CO. SURVEY GLASSCOCK CO., TEXAS	
Drawn By: D.E.H.	Date: June 6, 2013
Scale: 1"=1000'	Revised:
Sheet 2 of 2	Field Note Book: COG 1002/3-4
W.O. No: 2013-0879-02	Dwg. No.: 2013-0879-01_SE-4_31.DWG

File No. MF 112 153  
Unit # 6683 Curric "E" State  
#3108 Pooled Unit  
Date Filed: 11/11/13  
Jerry F. Patterson, Commissioner  
By: J.A.

# DO NOT DESTROY



## Texas General Land Office UNIT AGREEMENT MEMO

UPA148011

Unit Number 6684  
Operator Name Cog Operating Llc  
Customer ID  
Unit Name Currie "E" State #4101 Pooled Unit  
County 1 Glasscock RRC District 1 08  
County 2 RRC District 2  
County 3 RRC District 3  
County 4 RRC District 4  
Unit type Permanent  
State Net Revenue Interest 0.00976342  
State Part in Unit 0.03905370  
Unit Depth Allow All Depths Well  
From Depth Formation  
To Depth Participation Basis Surface Acreage  
If Excluions Apply: See Remarks

Effective Date 08/06/2013  
Unitized For Oil And Gas  
Unit Term  
Old Unit Number Inactive Status Date

Lease Number	Tract No	Lease Acres in Unit	Total Unit Acres	Tract Participation	Lease Royalty	Tract Royalty Participation	Royalty Rate Reduction Clause
MF112153	1	6.24	159.78	0.039054	0.25000000	0.009763	No

API Number  
4217335870 ✓

Remarks:

Prepared By:

GLO Base Updated By:

RAM Approval By:

GIS By:

Well Inventory By:

Prepared Date:

GLO Base Date:

RAM Approval Date:

GIS Date:

WI Date:

# Pooling Committee Report

To: School Land Board

UPA148011

Date of Board Meeting:

Unit Number: 6684

Effective Date: 08/06/2013

Unit Expiration Date:

Applicant:

Attorney Rep:

Operator: Cog Operating Llc

Unit Name: Currie "E" State #4101 Pooled Unit

Field Name: Garden City, S. (Wolfcamp)

County:

<u>Lease Type</u>	<u>Lease Number</u>	<u>Lease Royalty</u>	<u>Expiration Date</u>	<u>Lease Term</u>	<u>Lease Acres</u>	<u>Lease Acres In Unit</u>	<u>Royalty Participation</u>
HROW	MF112153	0.25000000	04/05/2014	3 years	75.320	6.240	0.00976342

<b>Private Acres:</b>	153.540000
<b>State Acres:</b>	6.240000
<b>Total Unit Acres:</b>	159.780000

<b>Participation Basis:</b>	Surface Acreage
Surface Acreage	
<b>State Acreage:</b>	3.91%
<b>State Net Revenue Interest:</b>	0.98%

<b>Unit Type:</b>	<b>Unitized for:</b>
Permanent	Oil And Gas
<b>Term:</b>	

<b>RRC Rules:</b>	<b>Spacing Acres:</b>
No	



**Information for Highway Right-of-Way Unit Declaration**

Texas General Land Office  
Jerry Patterson, Commissioner  
1700 North Congress Avenue  
Austin, Texas 78701-1495

**OPERATOR INFORMATION**

Contact Name: Mr. Joe Dutton Phone (432) 818-2211

Name of Pooled Unit Currie E State 4101

Operator of Pooled Unit COG Operating LLC County Glasscock

Effective Date of Unit Declaration: August 6, 2013

**HROW LEASE(S) IN UNIT**

HROW State Lease No.	Lease Date	Term	HROW Royalty	Total Lease Acreage	Lease Acreage in Unit
MF-112153	4/5/2011	3 years	1/4	75.32	✓ 6.24

0.00976342 ✓

State's Royalty Revenue Interest In Unit: 0.976342%

Total Acreage In Pooled Unit 159.78 ✓ Ac.

Total HROW Acreage In Unit 6.24 ✓ Ac.

Total Private Acreage In Unit 153.54 ✓ Ac.

Attach a plat showing the pooled unit outline, unit well(s) location, and HROW lease tracts.

Type of Mineral Pooled:  Oil  Gas  Oil & Gas

Pooled Interval: All Depths X Top Depth \_\_\_\_\_ Base Depth \_\_\_\_\_

If pooling a Formation(s) please list Formation Name: All Formations

RRC Field Name(s): Garden City, S. (Wolfcamp Field)

**UNIT WELL(S)**

API # 42-173-35870 RRC ID# 166150

API # \_\_\_\_\_ RRC ID# \_\_\_\_\_

API # \_\_\_\_\_ RRC ID# \_\_\_\_\_

API # \_\_\_\_\_ RRC ID# \_\_\_\_\_

Rec'd 11/9/13

#132856

**DESIGNATION OF POOLED UNIT**

**COG Operating LLC  
Currie "E" State #4101 Pooled Unit  
Glasscock County, Texas**

This Designation of Pooled Unit is made and entered into effective as of August 6, 2013, by and between the undersigned owners of the oil and gas leases described in Exhibit "A" hereof embracing lands in Glasscock County, Texas and by and between the undersigned owners of royalty in and under the lands described in Exhibit "A" hereof.

**WITNESSETH:**

1. Each of said oil and gas leases embraces a portion of the lands within the pooled unit and collectively embraces the entire pooled unit.

2. The owners of said oil and gas leases desire to pool the oil and gas leases described in Exhibit "A" hereof (INSOFAR, but only insofar as said oil and gas leases cover and affect lands lying within the unit area).

3. The owners of the royalty in and under the lands described in Exhibit "A" hereof hereby consent to this Designation of Pooled Unit (INSOFAR, but only insofar as said oil and gas leases cover and affect lands lying within the unit area).

4. The unit area shall consist of 159.78 acres, more or less, in Glasscock County, Texas, as described and referred to in Exhibit "A" hereto as to all depths and formations.

5. The owners of said oil and gas leases commit all of their interest and all interest over which they hold pooling privilege or power by virtue of said oil and gas leases, amendment and/or ratifications thereof, other instruments or by operation of law and which are within the above described unit area, and by these presents do hereby pool said oil and gas leases, the leasehold rights, and royalty interest therein, insofar as said leases, rights and interest cover and affect the lands described in Exhibit "A" for the drilling and production of oil, gas, condensate, casinghead gas and other hydrocarbons hereinafter at times referred to as "pooled mineral."

(a) The unit shall be operated as an entirety for the exploration, development, and production of the pooled mineral, rather than as separate tracts.

(b) All drilling operations, reworking or other operations with respect to the pooled mineral on lands within the unit shall be considered as though the same were on each separate tract in the unit, regardless of the actual location of the well or wells thereon, for all purposes under the terms of the respective leases or other contracts thereon and this agreement.

(c) Production of the pooled mineral from the unit allocated to each separate tract, respectively, as hereinafter provided, shall be deemed to have been produced from each separate tract in the unit, regardless of the actual location of the well or wells thereon, for all purposes under the terms of the respective leases or other contracts thereon and this agreement.

(d) All rights to the production of the pooled mineral from the unit, including royalties and other payments, shall be determined and governed by the lease or other contract pertaining to each separate tract, respectively, based upon the production so allocated to such tract only, and in lieu of the actual production of the pooled mineral therefrom.

6. For the purposes of computing the royalty to which each Lessor or royalty owner shall be entitled on production of oil or gas and condensate there shall be allocated to each tract committed to the above referred unit, that pro rata portion from the pooled mineral produced from the pooled unit which the number of surface acres contained in each such tract bears to the total number of surface acres included in the pooled unit.

7. Notwithstanding anything contained elsewhere in this Designation of Pooled Unit, it is expressly understood and agreed that nothing contained in this Designation of Pooled Unit shall modify or affect (i) the continuous development provisions, the horizontal and vertical lease

Designation of Pooled Unit  
Currie "E" State #4101 Pooled Unit

termination provisions or the separate lease provisions contained in Lease No. 1 described on Exhibit "A" attached hereto ("Lease 1"); or (ii) the Lessee's implied covenant to reasonably develop the lands covered by Lease 1, if any. It is further expressly understood and agreed that upon partial termination of Lease 1 pursuant to its terms as to any portion of Tract No. 1 described on Exhibit "A" attached hereto, neither the terminated portion of Lease 1 nor that portion of the mineral interest in said Tract No. 1 that was subject to Lease 1 prior to such partial termination shall remain subject to the terms of this Designation of Pooled Unit. Provided, notwithstanding (i) and (ii) above or other language of this paragraph, a unit well shall be deemed a well on Lease No. 1 for purposes of: (a) extending the continuous development period of Lease No. 1, if and to the extent, but only if and to the extent, it would do so if drilled on Lease No. 1 in the absence of pooling and (b) determining compliance with Lease No. 1's implied duty of reasonable development, if any.

The declaration may be executed in counterpart, none of which needs to be executed by all parties, or may be ratified or consented to by separate instruments and shall be binding upon both parties who have executed such a counterpart, ratification or consent.

IN WITNESS WHEREOF, the parties hereto have executed this agreement upon the respective dates of their acknowledgments.

Lessee under Leases 1 & 2:

**COG Operating LLC**

**Chevron Midcontinent, L.P.**

By: Chevron Midcontinent Operations LLC,  
General Partner

By: Mona D. Ables  
Mona D. Ables  
Vice President of Land

By: \_\_\_\_\_  
D. K. Beckham  
Attorney-in-Fact

**Baqash Resources LP**

By: Baqash Resources Management LLC.  
General Partner

**Tekar Tech, L.P.**

By: TCB Management, LLC.  
General Partner

Damian G. Barrett  
Damian G. Barrett, Manager

Terence Craig Burkes  
Terence Craig Burkes, President

**L & K Gates Resources LP**

By: Lawrence C. Gates  
Lawrence C. Gates, Manager

Kathrin A. Lewis  
Kathrin A. Lewis

\_\_\_\_\_  
Sharon F. Temple

Designation of Pooled Unit  
Currie "E" State #4101 Pooled Unit

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IN WITNESS WHEREOF, the parties hereto have executed this agreement upon the respective dates of their acknowledgments.

Lessee under Leases 1 & 2:

**COG Operating LLC**

**Chevron Midcontinent, L.P.**

By: Chevron Midcontinent Operations LLC,  
General Partner

By: Mona D. Ables  
Mona D. Ables  
Vice President of Land

By: D.K. Beckham  
D. K. Beckham  
Attorney-in-Fact

**Baqash Resources LP**

**Tekar Tech, L.P.**

By: Baqash Resources Management LLC,  
General Partner

By: TCB Management, LLC,  
General Partner

Damian G. Barrett  
Damian G. Barrett, Manager

\_\_\_\_\_  
Terence Craig Burkes, President

**L & K Gates Resources LP**

By: Lawrence C. Gates  
Lawrence C. Gates, Manager

\_\_\_\_\_  
Kathrin A. Lewis

\_\_\_\_\_  
Sharon F. Temple

Designation of Pooled Unit  
Currie "E" State #4101 Pooled Unit

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The declaration may be executed in counterpart, none of which needs to be executed by all parties, or may be ratified or consented to by separate instruments and shall be binding upon both parties who have executed such a counterpart, ratification or consent.

IN WITNESS WHEREOF, the parties hereto have executed this agreement upon the respective dates of their acknowledgments.

Lessee under Leases 1 & 2:

**COG Operating LLC**

**Chevron Midcontinent, L.P.**

By: Chevron Midcontinent Operations LLC,  
General Partner

By: Mona D. Ables  
Mona D. Ables  
Vice President of Land

By: \_\_\_\_\_  
D. K. Beckham  
Attorney-in-Fact

**Baqash Resources LP**

**Tekar Tech, L.P.**

By: Baqash Resources Management LLC.  
General Partner

By: TCB Management, LLC.  
General Partner

By: Damian G. Barrett  
Damian G. Barrett, Manager

By: \_\_\_\_\_  
Terence Craig Burkes, President

**L & K Gates Resources LP**

By: Lawrence C. Gates  
Lawrence C. Gates, Manager

By: \_\_\_\_\_  
Kathrin A. Lewis

By: Sharon F. Temple  
Sharon F. Temple

Designation of Pooled Unit  
Currie "E" State #4101 Pooled Unit

**Royalty Owners Under Lease 1:**

**CCH Ranch Investments LP**  
By: CCH Ranch Management LLC  
General Partner

By: Cynthia C. Howard  
Cynthia C. Howard  
President

**DCT Ranch Investments LP**  
By: DCT Ranch Management LLC  
General Partner

By: Darla C. Taylor  
Darla C. Taylor  
President

**ACKNOWLEDGMENTS**

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was acknowledged before me on 12<sup>th</sup> day of August, 2013,  
by **MONA D. ABLES**, as Vice President of Land of **COG OPERATING LLC**, a Delaware  
limited liability company on behalf of said limited liability company.

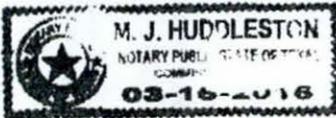


Joann Elaine Barnes  
Notary Public, State of Texas

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was acknowledged before me on 3<sup>rd</sup> day of October, 2013,  
by **D. K. BECKHAM**, as Attorney-in-Fact for Chevron Midcontinent Operations LLC, a  
Delaware limited liability company, as General Partner of **CHEVRON MIDCONTINENT,**  
L.P., a Texas limited partnership, on behalf of said limited partnership..



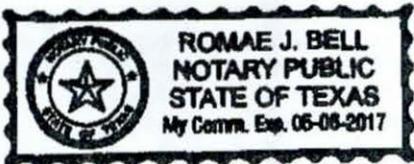
M. J. Huddleston  
Notary Public, State of Texas

My commission expires:  
3/16/2016

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was acknowledged before me on 5<sup>th</sup> day of September, 2013,  
by **TERENCE CRAIG BURKES**, as President for TCB Management, LLC, a Texas limited  
liability company, as General Partner of **TEKAR TECH, L.P.**, a Texas limited partnership, on  
behalf of said limited partnership.



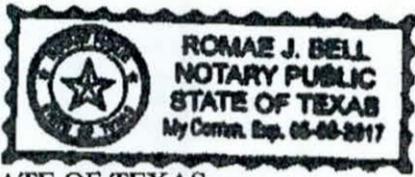
Romae J. Bell  
Notary Public, State of Texas

Designation of Pooled Unit  
Currie "E" State #4101 Pooled Unit

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was acknowledged before me on 3<sup>rd</sup> day of September, 2013, by **DAMIAN G. BARRETT**, as Manager for Baqash Resources Management LLC, a Texas limited liability company, as General Partner of BAQASH RESOURCES LP, a Texas limited partnership, on behalf of said limited partnership.

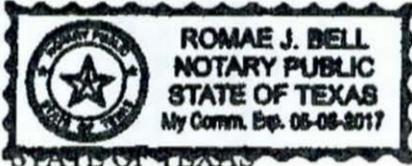


Romae J. Bell  
Notary Public, State of Texas

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was acknowledged before me on 3<sup>rd</sup> day of September, 2013, by **LAWRENCE C. GATES**, as Manager of **L & K GATES RESOURCES LP**, a Texas limited partnership, on behalf of said limited partnership.

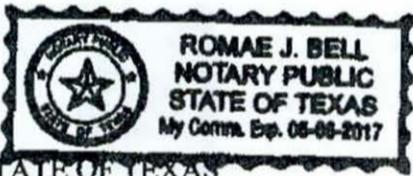


Romae J. Bell  
Notary Public, State of Texas

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was acknowledged before me on 11<sup>th</sup> day of September, 2013, by **KATHRIN A. LEWIS**.



Romae J. Bell  
Notary Public, State of Texas

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was personally acknowledged before me on 1<sup>st</sup> day of October, 2013 by **SHARON F. TEMPLE**.



Romae J. Bell  
Notary Public, State of Texas

Designation of Pooled Unit  
Currie "E" State #4101 Pooled Unit

ACKNOWLEDGMENTS

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was personally acknowledged before me on 15<sup>th</sup> day of August, 2013, by **CYNTHIA C. HOWARD**, President of CCH Ranch Management LLC, General partner of **CCH RANCH INVESTMENTS LP**, a Texas limited partnership, on behalf of said limited partnership.



Jean Gladish  
Notary Public, State of Texas

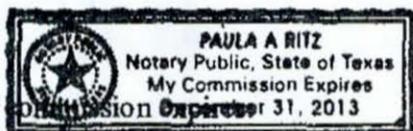
My commission expires:

\_\_\_\_\_

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was personally acknowledged before me on 17<sup>th</sup> day of August, 2013, by **DARLA C. TAYLOR**, President of DCT Ranch Management LLC, General Partner of **DCT RANCH INVESTMENTS LP**, a Texas limited partnership, on behalf of said limited partnership.



Paula A. Ritz  
Notary Public, State of Texas

My

commission expires

December

Designation of Pooled Unit  
Currie "E" State 4101 Pooled Unit

**EXHIBIT "A"**  
**DESIGNATION OF POOLED UNIT**

**COG Operating LLC**  
**Currie "E" State #4101 Pooled Unit**  
**Glasscock County, Texas**

**Description of Pooled Unit**

**Currie "E" State #4101 Unit**

NE/4 of Section 41, Block 32, Township 4 South, T & P Ry. Co. Survey, A-82, containing 159.78 acres, more or less:

**Tract No. 1**

A tract of land containing 153.54 acres, more or less, being all of NE/4 of Section 41, Block 32, Township 4 South, T & P Ry. Co. Survey, A-82, Glasscock County, Texas, containing 159.78 acres, more or less, SAVE AND EXCEPT 6.24 acres, more or less, being the right-of-way of State Highway 158, described more particularly by metes and bounds in Tract No. 2 below.

**Tract No. 2**

A tract of land containing 6.24 acres, more or less, out of NE/4 of Section 41, Block 32, Township 4 South, T&P Ry. Co. Survey, Glasscock County, Texas, being the right-of-way of State Highway 158, described more particularly by metes and bounds as shown on the plat attached hereto:

**Leases Committed to Pooled Unit:**

**Lease No. 1**

Lessor: James R. Currie, Individually and as Trustee, joined by his wife, Jimmie R. Currie; Cynthia C. Howard; and Darla C. Taylor.  
Lessee: Henry Petroleum LP  
Date: December 5, 2005  
Recording: Memorandum of Lease recorded Volume 89, Page 652 of Official Public Records of Glasscock County, Texas  
Description: Insofar as and only insofar as said lease covers Tract 1 described above.

**Lease No. 2**

Lessor: Commissioner of the General Land Office of the State of Texas  
Lease No. (MF 112153)  
Lessee: COG Operating LLC  
Date: April 5, 2011  
Recording: Volume 166, Page 148 of Official Public Records of Glasscock County, Texas  
Description: Insofar as and only insofar as said lease covers Tract 2 described above.

End of Exhibit "A" to Currie "E" State #4101 Pooled Unit - Designation of Pooled Unit

LEGAL DESCRIPTION

BEING a 6.24 acre tract of land out of a tract belonging to James R. Carr, Trustee, according to Volume 145, Page 507, Deed Records Glasscock County Texas, located in the northeast quarter (NE/4) of Section 41, Block 32, T-4-S, T. & P. RR. Co. Survey, Glasscock County, Texas and being more particularly described as follows:

BEGINNING of a spike with a metal washer marked "WEST CO. MIDLAND" set in the north right-of-way of State Highway 158, and on the west line of the northeast quarter (NE/4) of said Section 41, for the most northerly corner of this tract, from which the calculated northeast corner of said Section 41 bears N 57°25'04" E, a distance of 2770.74 feet, from said calculated corner, an old stone mound found for the northeast corner of Section 24, Block 33, T-4-S, T. & P. RR. Co. Survey bears N 47°26'01" W, a distance of 19048.65 feet;

THENCE S 68°57'28" E, with the north right-of-way of said State Highway 158, a distance of 2385.34 feet to a spike with a metal washer marked "WEST CO. MIDLAND" set on the south line of the northeast quarter (NE/4) of said Section 41 and in the north right-of-way of said State Highway 158 for the most southeasterly corner of this tract;

THENCE S 75°27'48" W, with the south line of the northeast quarter (NE/4) of said Section 41, a distance of 160.01 feet to a spike with a metal washer marked "WEST CO. MIDLAND" set in south right-of-way of said State Highway 158, and on the south line of the northeast quarter (NE/4) of said Section 41 for the most southwesterly corner of this tract, from which the calculated southwest corner of said Section 41 bears S 42°25'57" W, a distance of 4660.62 feet, from said calculated corner, an iron pipe found for the northeast corner of Section 6, Block 32, T-4-S, T. & P. RR. Co. Survey bears S 25°37'40" W, a distance of 6731.76 feet;

THENCE N 58°57'28" W, with the south right-of-way of said State Highway 158, a distance of 2146.47 feet to a spike with a metal washer marked "WEST CO. MIDLAND" set on the west line of the northeast quarter (NE/4) of said Section 41 and in the south right-of-way of said State Highway 158 for the most northwesterly corner of this tract;

THENCE N 14°07'15" W, with the west line of the northeast quarter (NE/4), a distance of 179.88 feet to the POINT OF BEGINNING and containing 6.24 acres of land.

SEE SHEET 1 OF 2 FOR A DETAILED SKETCH OF THIS TRACT OF LAND

NOTE:

- 1) Plane Coordinates, Bearings and Distances shown herein are Lambert Grid and Conform to the "Texas Coordinate System", Texas Central Zone, North American Datum of 1983. Azimuths shown herein are mean surface values.
- 2) See information filed in the office of this Surveyor which describes the reconstruction of this Tract.

I HEREBY CERTIFY THAT THIS PLAN WAS MADE FROM NOTES TAKEN IN THE FIELD IN A BOOK MADE UNDER MY SUPERVISION.

*Wade H. Mertz*  
 WADE MERTZ TEXAS P.L.L.C. PROFESSIONAL SURVEYOR  
 1982

**WEST COMPANY**  
 116 W. LINDEN, SUITE 310  
 MIDLAND, TEXAS 79701-3114  
 OFFICE (806) 692-2222 FAX (806) 692-2222  
 WWW.WESTCOMPANY.COM  
 MAIL (806) 692-2222

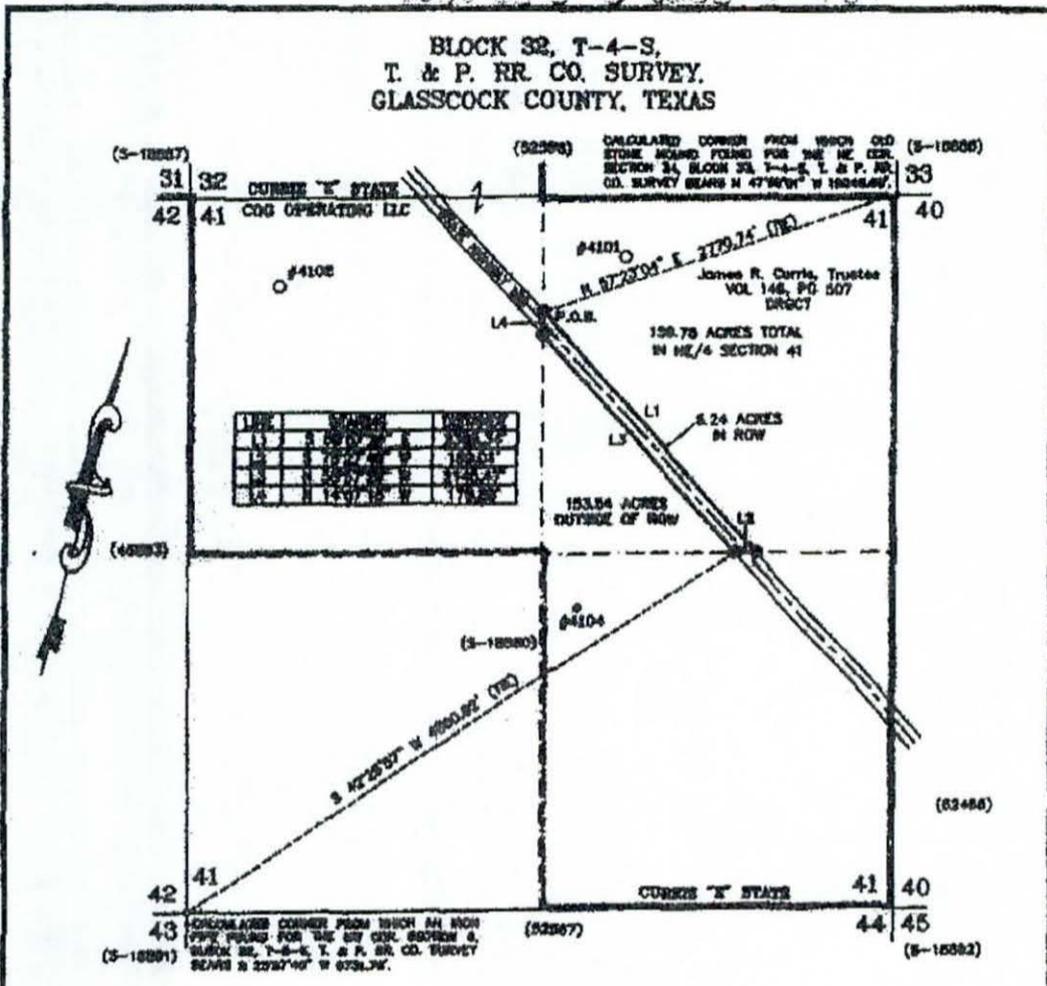


<b>COG OPERATING, LLC</b>	
TRACT SURVEY 6.24 ACRES IN STATE HIGHWAY 158 ROW OUT OF THE NE/4 OF SECTION 41, BLOCK 32, T-4-S, T. & P. RR. CO. SURVEY GLASSCOCK CO., TEXAS	
Drawn By: G.E.H.	Date: June 28, 2013
Scale: 1"=1000'	Revised:
Sheet 2 of 2	Field Note Book: COG 1002/3-4
W.S. No: 2013-0679-03	Dep. No: 2013-0679-03_MC-4_41.DWG

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*Survey State #101*

BLOCK 32, T-4-S,  
T. & P. RR. CO. SURVEY.  
GLASSCOCK COUNTY, TEXAS



SEE SHEET 2 OF 2 FOR A FIELD NOTE DESCRIPTION OF THIS TRACT OF LAND

LEGEND

- ⊙ -- Denotes Set Spike with metal washer Marked "WEST CO. MIDLAND"
- -- Denotes Calculated Corner
- ⊙ -- Denotes Producing Well Location
- -- Denotes Proposed Well Location
- (S-27750) -- Denotes General Land Office File No.
- -- Denotes Lease Line



NOTE:

- 1) Plane Coordinates, Bearings and Distances shown hereon are Lambert Grid and Conform to the "Texas Coordinate System", Texas Central Zone, North American Datum of 1983. Averages shown hereon are mean surface values.
- 2) See information filed in the office of this Surveyor which describes the reconstruction of this Tract.

I HEREBY CERTIFY THAT THIS PLAT WAS MADE FROM NOTES TAKEN IN THE FIELD IN A BONA FIDE SURVEY MADE UNDER MY SUPERVISION.

*Wade Miller*  
 WADE MILLER SURVEYOR  
 STATE OF TEXAS  
 COMMISSION EXPIRES 12/31/2013

136 N. GARDNER, BOX 116  
 MIDLAND, TEXAS 79701-3274  
 OFFICE: (806) 688-8000 FAX: (806) 688-8004  
 Web Page: wade-miller.com  
 Email: wade@wade-miller.com

COG OPERATING, LLC

TRACT SURVEY  
 6.24 ACRES IN STATE HIGHWAY 156 ROW  
 OUT OF THE NE/4 OF  
 SECTION 41, BLOCK 32, T-4-S,  
 T. & P. RR. CO. SURVEY  
 GLASSCOCK CO., TEXAS

Drawn By: D.E.H.	Date: June 26, 2013
Scale: 1"=1000'	Revised:
Sheet 1 of 2	Field Note Book: COG T002/3-4
W.O. No: 2013-0578-03	Dep. No: 2013-0578-03, NE-4, 41 DWG

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FILED  
AT 10:00 O'CLOCK A M  
ON THE 18 DAY OF Oct.  
A.D., 2013  
INS. NO. 132856

Rebecca Bada  
COUNTY CLERK, GLASSCOCK COUNTY, TEXAS  
BY Adriana Ramirez  
DEPUTY

STATE OF TEXAS  
COUNTY OF GLASSCOCK

I hereby certify that this instrument was FILED on the date and at the time stamped hereon by me and was duly RECORDED in the Volume and Page of the named RECORDS of Glasscock County, Texas, as stamped hereon by me.



Rebecca Bada  
County Clerk, Glasscock County, Texas

OFFICIAL PUBLIC RECORDS  
VOL. 231 PAGE 460  
RECORDED Oct. 18, 2013

18.

File No. MF 112153  
Unit # 6684, Currie "E"  
State #4101, Pooled Unit

Date Filed: 11/1/13  
Jerry E. Patterson, Commissioner  
By: J.E.A.

# DO NOT DESTROY



## Texas General Land Office UNIT AGREEMENT MEMO

UPA148012

Unit Number 6685  
 Operator Name Cog Operating Llc  
 Customer ID  
 Unit Name Currie "E" State #4102 Pooled Unit  
 County 1 Glasscock RRC District 1 08  
 County 2 RRC District 2  
 County 3 RRC District 3  
 County 4 RRC District 4  
 Unit type Permanent  
 State Net Revenue Interest 0.00546029  
 State Part in Unit 0.02184117  
 Unit Depth Allow All Depths Well  
 From Depth Formation  
 To Depth Participation Basis Surface Acreage  
 If Excluions Apply: See Remarks

Effective Date 08/06/2013  
 Unitized For Oil And Gas  
 Unit Term  
 Old Unit Number Inactive Status Date

Lease Number	Tract No	Lease Acres in Unit	Total Unit Acres	Tract Participation	Lease Royalty	Tract Royalty Participation	Royalty Rate Reduction Clause
MF112153	1	3.49	159.79	0.021841	0.25000000	0.005460	No

API Number  
421733597

Remarks:

Prepared By: Mark Adams  
 GLO Base Updated By: Mark Adams  
 RAM Approval By: [Signature]  
 GIS By: \_\_\_\_\_  
 Well Inventory By: [Signature]

Prepared Date: 1/15/14  
 GLO Base Date: 1/15/14  
 RAM Approval Date: 1/16/14  
 GIS Date: \_\_\_\_\_  
 WI Date: 1/16/14

# Pooling Committee Report

To: School Land Board

UPA148012

Date of Board Meeting:

Unit Number: 6685

Effective Date: 08/06/2013

Unit Expiration Date:

Applicant:

Attorney Rep:

Operator: Cog Operating Llc

Unit Name: Currie "E" State #4102 Pooled Unit

Field Name: Garden City, S. (Wolfcamp)

County:

<u>Lease Type</u>	<u>Lease Number</u>	<u>Lease Royalty</u>	<u>Expiration Date</u>	<u>Lease Term</u>	<u>Lease Acres</u>	<u>Lease Acres In Unit</u>	<u>Royalty Participation</u>
HROW	MF112153	0.25000000	04/05/2014	3 years	75.320	3.490	0.00546029

<b>Private Acres:</b>	156.300000
<b>State Acres:</b>	3.490000
<b>Total Unit Acres:</b>	159.790000

<b>Participation Basis:</b>	Surface Acreage
Surface Acreage	
<b>State Acreage:</b>	2.18%
<b>State Net Revenue Interest:</b>	0.55%

<b>Unit Type:</b>	<b>Unitized for:</b>
Permanent	Oil And Gas
<b>Term:</b>	

<b>RRC Rules:</b>	<b>Spacing Acres:</b>
No	

#6685



Information for Highway Right-of-Way Unit Declaration  
Texas General Land Office  
Jerry Patterson, Commissioner  
1700 North Congress Avenue  
Austin, Texas 78701-1495

**OPERATOR INFORMATION**

Contact Name: Mr. Joe Dutton Phone (432) 818-2211  
Name of Pooled Unit Currie E State 4102  
Operator of Pooled Unit COG Operating LLC County Glasscock ✓  
Effective Date of Unit Declaration: August 6, 2013 ✓

**HROW LEASE(S) IN UNIT**

HROW State Lease No.	Lease Date	Term	HROW Royalty	Total Lease Acreage	Lease Acreage in Unit
MF-112153	4/5/2011 ✓	3 years ✓	1/4 ✓	75.32 ✓	3.49 ✓

0.00546029  
State's Royalty Revenue Interest in Unit: 0.546030%  
Total Acreage In Pooled Unit 159.79 ✓ Ac.  
Total HROW Acreage In Unit 3.49 ✓ Ac.  
Total Private Acreage In Unit 156.30 ✓ Ac.

Attach a plat showing the pooled unit outline, unit well(s) location, and HROW lease tracts.

Type of Mineral Pooled:  Oil  Gas  Oil & Gas ✓  
Pooled Interval: All Depths X Top Depth \_\_\_\_\_ Base Depth \_\_\_\_\_  
If pooling a Formation(s) please list Formation Name: All Formations  
RRC Field Name(s): Garden City, S. (Wolfcamp Field)

**UNIT WELL(S)**

API # 42-173-35917 RRC ID# 166150  
API # \_\_\_\_\_ RRC ID# \_\_\_\_\_  
API # \_\_\_\_\_ RRC ID# \_\_\_\_\_  
API # \_\_\_\_\_ RRC ID# \_\_\_\_\_

Revd 11/1/13

#132857

BOOK 231 PAGE 471

#6685

**DESIGNATION OF POOLED UNIT**

**COG Operating LLC  
Currie "E" State #4102 Pooled Unit  
Glasscock County, Texas**

This Designation of Pooled Unit is made and entered into effective as of August 6, 2013, by and between the undersigned owners of the oil and gas leases described in Exhibit "A" hereof embracing lands in Glasscock County, Texas and by and between the undersigned owners of royalty in and under the lands described in Exhibit "A" hereof.

**WITNESSETH:**

1. Each of said oil and gas leases embraces a portion of the lands within the pooled unit and collectively embraces the entire pooled unit.

2. The owners of said oil and gas leases desire to pool the oil and gas leases described in Exhibit "A" hereof (INSOFAR, but only insofar as said oil and gas leases cover and affect lands lying within the unit area).

3. The owners of the royalty in and under the lands described in Exhibit "A" hereof hereby consent to this Designation of Pooled Unit (INSOFAR, but only insofar as said oil and gas leases cover and affect lands lying within the unit area).

4. The unit area shall consist of 159.79 acres, more or less, in Glasscock County, Texas, as described and referred to in Exhibit "A" hereto as to all depths and formations.

5. The owners of said oil and gas leases commit all of their interest and all interest over which they hold pooling privilege or power by virtue of said oil and gas leases, amendment and/or ratifications thereof, other instruments or by operation of law and which are within the above described unit area, and by these presents do hereby pool said oil and gas leases, the leasehold rights, and royalty interest therein, insofar as said leases, rights and interest cover and affect the lands described in Exhibit "A" for the drilling and production of oil, gas, condensate, casinghead gas and other hydrocarbons hereinafter at times referred to as "pooled mineral."

(a) The unit shall be operated as an entirety for the exploration, development, and production of the pooled mineral, rather than as separate tracts.

(b) All drilling operations, reworking or other operations with respect to the pooled mineral on lands within the unit shall be considered as though the same were on each separate tract in the unit, regardless of the actual location of the well or wells thereon, for all purposes under the terms of the respective leases or other contracts thereon and this agreement.

(c) Production of the pooled mineral from the unit allocated to each separate tract, respectively, as hereinafter provided, shall be deemed to have been produced from each separate tract in the unit, regardless of the actual location of the well or wells thereon, for all purposes under the terms of the respective leases or other contracts thereon and this agreement.

(d) All rights to the production of the pooled mineral from the unit, including royalties and other payments, shall be determined and governed by the lease or other contract pertaining to each separate tract, respectively, based upon the production so allocated to such tract only, and in lieu of the actual production of the pooled mineral therefrom.

6. For the purposes of computing the royalty to which each Lessor or royalty owner shall be entitled on production of oil or gas and condensate there shall be allocated to each tract committed to the above referred unit, that pro rata portion from the pooled mineral produced from the pooled unit which the number of surface acres contained in each such tract bears to the total number of surface acres included in the pooled unit.

7. Notwithstanding anything contained elsewhere in this Designation of Pooled Unit, it is expressly understood and agreed that nothing contained in this Designation of Pooled Unit shall modify or affect (i) the continuous development provisions, the horizontal and vertical lease

Designation of Pooled Unit  
Currie "E" State #4102 Pooled Unit

termination provisions or the separate lease provisions contained in Lease No. 1 described on Exhibit "A" attached hereto ("Lease 1"); or (ii) the Lessee's implied covenant to reasonably develop the lands covered by Lease 1, if any. It is further expressly understood and agreed that upon partial termination of Lease 1 pursuant to its terms as to any portion of Tract No. 1 described on Exhibit "A" attached hereto, neither the terminated portion of Lease 1 nor that portion of the mineral interest in said Tract No. 1 that was subject to Lease 1 prior to such partial termination shall remain subject to the terms of this Designation of Pooled Unit. Provided, notwithstanding (i) and (ii) above or other language of this paragraph, a unit well shall be deemed a well on Lease No. 1 for purposes of: (a) extending the continuous development period of Lease No. 1, if and to the extent, but only if and to the extent, it would do so if drilled on Lease No. 1 in the absence of pooling and (b) determining compliance with Lease No. 1's implied duty of reasonable development, if any.

The declaration may be executed in counterpart, none of which needs to be executed by all parties, or may be ratified or consented to by separate instruments and shall be binding upon both parties who have executed such a counterpart, ratification or consent.

IN WITNESS WHEREOF, the parties hereto have executed this agreement upon the respective dates of their acknowledgments.

Lessee under Leases 1 & 2:

**COG Operating LLC**

**Chevron Midcontinent, L.P.**

By: Chevron Midcontinent Operations LLC,  
General Partner

By: Mona D. Ables  
Mona D. Ables  
Vice President of Land

By: \_\_\_\_\_  
D. K. Beckham  
Attorney-in-Fact

**Baqash Resources LP**

**Tekar Tech, L.P.**

By: Baqash Resources Management LLC,  
General Partner

By: TCB Management, LLC,  
General Partner

Damian G. Barrett  
Damian G. Barrett, Manager

Terence Craig Burkes  
Terence Craig Burkes, President

**L & K Gates Resources LP**

By: Lawrence C. Gates  
Lawrence C. Gates, Manager

Kathrin A. Lewis  
Kathrin A. Lewis

\_\_\_\_\_  
Sharou F. Temple

Designation of Pooled Unit  
Currie "E" State #4102 Pooled Unit

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IN WITNESS WHEREOF, the parties hereto have executed this agreement upon the respective dates of their acknowledgments.

**Lessee under Leases 1 & 2:**

**COG Operating LLC**

**Chevron Midcontinent, L.P.**

By: Chevron Midcontinent Operations LLC,  
General Partner

By: Mona D. Ables  
Mona D. Ables  
Vice President of Land *JD DC*

By: D. K. Beckham  
D. K. Beckham  
Attorney-in-Fact

**Baqash Resources LP**

**Tekar Tech, L.P.**

By: Baqash Resources Management LLC,  
General Partner

By: TCB Management, LLC,  
General Partner

Damian G. Barrett  
Damian G. Barrett, Manager

\_\_\_\_\_  
Terence Craig Burkes, President

**L & K Gates Resources LP**

By: Lawrence C. Gates  
Lawrence C. Gates, Manager

\_\_\_\_\_  
Kathrin A. Lewis

\_\_\_\_\_  
Sharon F. Temple

Designation of Pooled Unit  
Currie "E" State #4102 Pooled Unit

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IN WITNESS WHEREOF, the parties hereto have executed this agreement upon the respective dates of their acknowledgments.

Lessee under Leases 1 & 2:

**COG Operating LLC**

**Chevron Midcontinent, L.P.**

By: Chevron Midcontinent Operations LLC,  
General Partner

By: Mona D. Ables  
Mona D. Ables  
Vice President of Land *JD PC*

By: \_\_\_\_\_  
D. K. Beckham  
Attorney-in-Fact

**Baqash Resources LP**

**Tekar Tech, L.P.**

By: Baqash Resources Management LLC,  
General Partner

By: TCB Management, LLC,  
General Partner

Damian G. Barrett  
Damian G. Barrett, Manager

\_\_\_\_\_  
Terence Craig Burkes, President

**L & K Gates Resources LP**

By: Lawrence C. Gates  
Lawrence C. Gates, Manager

\_\_\_\_\_  
Kathrin A. Lewis

Sharon F. Temple  
Sharon F. Temple

Designation of Pooled Unit  
Currie "E" State #4102 Pooled Unit

**Royalty Owners Under Lease 1:**

**CCH Ranch Investments LP**  
By: CCH Ranch Management LLC  
General Partner

By: Cynthia C. Howard  
Cynthia C. Howard  
President

**DCT Ranch Investments LP**  
By: DCT Ranch Management LLC  
General Partner

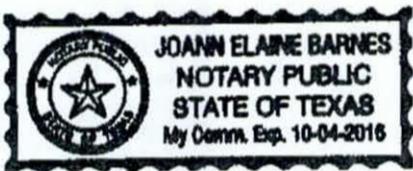
By: Darla C. Taylor  
Darla C. Taylor  
President

**ACKNOWLEDGMENTS**

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was acknowledged before me on 12<sup>th</sup> day of August, 2013, by **MONA D. ABLES**, as Vice President of Land of **COG OPERATING LLC**, a Delaware limited liability company on behalf of said limited liability company.

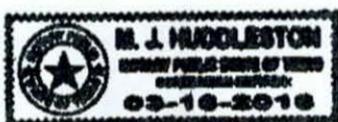


Joann Elaine Barnes  
Notary Public, State of Texas

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was acknowledged before me on 3<sup>rd</sup> day of October, 2013, by **D. K. BECKHAM**, as Attorney-in-Fact for Chevron Midcontinent Operations LLC, a Delaware limited liability company, as General Partner of **CHEVRON MIDCONTINENT, L.P.**, a Texas limited partnership, on behalf of said limited partnership..



M. J. Huddleston  
Notary Public, State of Texas

My commission expires:

3/16/2016

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was acknowledged before me on 5<sup>th</sup> day of September, 2013, by **TERENCE CRAIG BURKES**, as President for TCB Management, LLC, a Texas limited liability company, as General Partner of **TEKAR TECH, L.P.**, a Texas limited partnership, on behalf of said limited partnership.



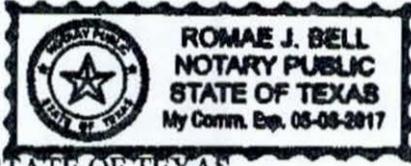
Romae J. Bell  
Notary Public, State of Texas

Designation of Pooled Unit  
Currie "E" State #4102 Pooled Unit

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was acknowledged before me on 3<sup>rd</sup> day of September, 2013, by **DAMIAN G. BARRETT**, as Manager for Baqash Resources Management LLC, a Texas limited liability company, as General Partner of BAQASH RESOURCES LP, a Texas limited partnership, on behalf of said limited partnership.

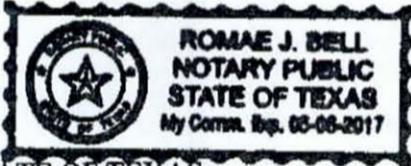


Romae J. Bell  
Notary Public, State of Texas

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was acknowledged before me on 3<sup>rd</sup> day of September, 2013, by **LAWRENCE C. GATES**, as Manager of L & K GATES RESOURCES LP, a Texas limited partnership, on behalf of said limited partnership.



Romae J. Bell  
Notary Public, State of Texas

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was acknowledged before me on 11<sup>th</sup> day of September, 2013, by **KATHRIN A. LEWIS**.



Romae J. Bell  
Notary Public, State of Texas

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was personally acknowledged before me on 1<sup>st</sup> day of October, 2013 by **SHARON F. TEMPLE**.



Romae J. Bell  
Notary Public, State of Texas

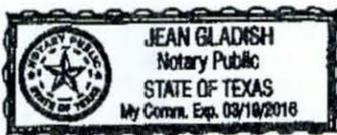
Designation of Pooled Unit  
Currie "E" State #4102 Pooled Unit

ACKNOWLEDGMENTS

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was personally acknowledged before me on 15<sup>th</sup> day of August, 2013, by **CYNTHIA C. HOWARD**, President of CCH Ranch Management LLC, General partner of **CCH RANCH INVESTMENTS LP**, a Texas limited partnership, on behalf of said limited partnership.



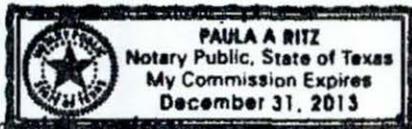
Jean Gladish  
Notary Public, State of Texas

My commission expires:  
\_\_\_\_\_

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was personally acknowledged before me on 17<sup>th</sup> day of August, 2013, by **DARLA C. TAYLOR**, President of DCT Ranch Management LLC, General Partner of **DCT RANCH INVESTMENTS LP**, a Texas limited partnership, on behalf of said limited partnership.



Paula A. Ritz  
Notary Public, State of Texas

My commission expires:  
\_\_\_\_\_

Designation of Pooled Unit  
Currie "E" State 4102 Pooled Unit

**EXHIBIT "A"**  
**DESIGNATION OF POOLED UNIT**

**COG Operating LLC**  
**Currie "E" State #4104 Pooled Unit**  
**Glasscock County, Texas**

**Description of Pooled Unit**

**Currie "E" State #4102 Unit**

NW/4 of Section 41, Block 32, Township 4 South, T & P Ry. Co. Survey, A-82, containing 159.79 acres, more or less:

**Tract No. 1**

A tract of land containing 156.30 acres, more or less, being all of NW/4 of Section 41, Block 32, Township 4 South, T & P Ry. Co. Survey, A-82, Glasscock County, Texas, containing 159.79 acres, more or less, SAVE AND EXCEPT 3.49 acres, more or less, being the right-of-way of State Highway 158, described more particularly by metes and bounds in Tract No. 2 below.

**Tract No. 2**

A tract of land containing 3.49 acres, more or less, out of NW/4 of Section 41, Block 32, Township 4 South, T&P Ry. Co. Survey, Glasscock County, Texas, being the right-of-way of State Highway 158, described more particularly by metes and bounds as shown on the plat attached hereto:

**Leases Committed to Pooled Unit:**

**Lease No. 1**

Lessor: James R. Currie, Individually and as Trustee, joined by his wife, Jimmie R. Currie; Cynthia C. Howard; and Darla C. Taylor.  
Lessee: Henry Petroleum LP  
Date: December 5, 2005  
Recording: Memorandum of Lease recorded Volume 89, Page 652 of Official Public Records of Glasscock County, Texas  
Description: Insofar as and only insofar as said lease covers Tract 1 described above.

**Lease No. 2**

Lessor: Commissioner of the General Land Office of the State of Texas  
Lease No. (MF 112153)  
Lessee: COG Operating LLC  
Date: April 5, 2011  
Recording: Volume 166, Page 148 of Official Public Records of Glasscock County, Texas  
Description: Insofar as and only insofar as said lease covers Tract 2 described above.

End of Exhibit "A" to Currie "E" State #4102 Pooled Unit - Designation of Pooled Unit





FILED  
AT 10:00 O'CLOCK A M  
ON THE 18 DAY OF Oct  
A.D., 2013  
INS. NO. 132857

*Rebecca Bada*

COUNTY CLERK, GLASSCOCK COUNTY, TEXAS

BY *Adriana Ramirez*  
DEPUTY

STATE OF TEXAS  
COUNTY OF GLASSCOCK

I hereby certify that this instrument was FILED on the date and at the time stamped hereon by me and was duly RECORDED in the Volume and Page of the named RECORDS of Glasscock County, Texas, as stamped hereon by me.



*Rebecca Bada*

County Clerk, Glasscock County, Texas

OFFICIAL PUBLIC RECORDS

VOL. 231 PAGE 471

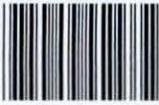
RECORDED Oct. 18, 2013

File No. MF 112153  
Unit #6685, Curric "E"  
State #402 Pooled Unit

Date Filed: 11/1/13

Jerry E. Patterson, Commissioner

By J.M.A.



### DIVISION ORDER

To: Plains Marketing L.P.  
P.O. Box 4648  
Houston, TX 77210-4648

Date: 07/02/2013  
Property Descr: SEE EXHIBIT 'A'  
Effective 7 A.M.: 04/01/2013  
  
Decimal Interest: 0.00644610  
Type of Interest: RI  
ROYALTY INTEREST

Owner Number  
**0062639**  
Property Number:  
**01 191544**

Property Name: CURRIE E STATE #3108  
Operator: COG OPERATING LLC  
County and State: GLASSCOCK, TX  
Production: OIL / CONDENSATE ( GAS )

Owner Name and Address: COMMISSIONER GENERAL LD OFFICE  
STATE OF TEXAS  
1700 NORTH CONGRESS AVENUE  
AUSTIN, TX 78701

COMMISSIONER GENERAL LD OFFICE  
STATE OF TEXAS  
1700 NORTH CONGRESS AVENUE  
AUSTIN, TX 78701

[Correspondence Address]

[Remittance Address]

The undersigned severally and not jointly certifies the ownership of their decimal interest in production or proceeds as described above payable by Plains Marketing, L.P. (hereinafter called "Payor").

Payor shall be notified, in writing, of any change in ownership, decimal interest, or payment address. All such changes shall be effective the first day of the month following receipt of such notice.

Payor is authorized to withhold payment pending resolution of a title dispute or adverse claim asserted regarding the interest in production claimed herein by the undersigned. The undersigned agrees to reimburse Payor any amount attributable to an interest to which the undersigned is not entitled. Unless otherwise required by law, Payor shall not be required to pay interest on payments withheld due to a title dispute or adverse claim.

Payments of less than \$25.00 may be accrued before disbursement until the total amount equals \$25.00 or more, or until December 31 of each year, whichever occurs first.

This Division Order does not amend any lease or operating agreement between the undersigned and the lessee or operator or any other contracts for the purchase of oil or gas.

The undersigned will be paid in accordance with the division of interests set out above. As to oil and/or condensate, the Payor shall pay all parties at the price agreed to by the operator for oil and/or condensate to be sold pursuant to this division order. Payor shall compute quantity and make corrections for gravity and temperature and make deductions for impurities. As to gas, the undersigned will be paid in accordance with the division of interest set forth herein. The Payor will pay all parties for their respective interest in the gas proceeds paid to Payor by the operator for disbursement at the price and upon the terms agreed to by the operator for the gas marketed by the operator. Payor is a disbursement service provider only and does not purchase the gas nor take title to the gas. The operator is responsible for marketing gas produced from the property described in the attached property description. Payor does not assume any obligations of the lessee or operator under any oil and gas lease, gas sales contract or other agreement to which Payor is not a party.

In addition to the terms and conditions of this Division Order, the undersigned and Payor may have certain statutory rights under the laws of the state in which the property is located.

Special Clauses/Requirements: If applicable, see Exhibit 'A'.

Owner Social Security # or Taxpayer ID #:   
Owner Daytime Telephone #: \_\_\_\_\_  
Owner FAX #: \_\_\_\_\_  
Email Address: \_\_\_\_\_

Owner BY: \_\_\_\_\_  
Signature: OWNER #: 0062639  
  
TITLE: \_\_\_\_\_

Signature of two Witnesses/Attest \_\_\_\_\_  
\_\_\_\_\_

**FEDERAL LAW REQUIRES YOU TO FURNISH YOUR SOCIAL SECURITY OR TAXPAYER IDENTIFICATION NUMBER. FAILURE TO COMPLY WILL RESULT IN 28% TAX WITHHOLDING AND WILL NOT BE REFUNDABLE BY PAYOR.**



COMMISSIONER GENERAL LD OFFICE  
STATE OF TEXAS  
1700 NORTH CONGRESS AVENUE  
AUSTIN, TX 78701

OWNER NUMBER: 0062639

INSTRUCTIONS TO ALL INTEREST OWNERS  
READ CAREFULLY BEFORE SIGNING DIVISION ORDER.

FAILURE TO COMPLY WITH THESE INSTRUCTIONS WILL DELAY PAYMENT. THE ATTACHED DIVISION ORDER SHOULD NOT BE ALTERED IN ANY WAY UNLESS ACCOMPANIED BY DOCUMENTARY EVIDENCE TO SUPPORT THE CHANGE.

**Signature:**

**Individuals**

Sign name as shown on the instrument. Have the signature witnessed by at least one person not related to the party signing.

**Corporations**

If signing for a corporation, signature must be attested, corporate seal affixed, and title of signatory party shown. If not previously furnished, a certified copy of authority of executing officer must be submitted.

**Partnerships**

If signing for a partnership, all partners must sign unless signed by an authorized partner and a certified copy of his authority furnished.

**Signature by Second Party**

If the instrument is signed by an agent, attorney-in-fact, guardian, estate representative, trustee or any party other than the named interest owner, evidence of the rights vested in the signatory party must be provided.

**Taxpayer ID or Social Security Number**

Insert your number in the space provided. Failure to provide this information may result in backup withholding at the rate of 28%. This information must be shown on this Division Order even if it has been previously provided.

**State Tax Exempt**

Please advise immediately if the interest is owned by a tax-free entity and provide our office with a copy of the applicable state form. State taxes will be deducted if you fail to enclose documentation supporting your tax-exempt status.

**Correspondence Address**

Indicate in the space provided the address to which correspondence is to be mailed. Print or type. Do not abbreviate.

**Remittance Address**

Indicate in the space provided the address to which royalty checks are to be mailed. If you are already receiving checks from Plains Marketing, L.P., be sure to use the same address to which we are now mailing checks. For information about electronic deposit of your check, please call our Customer Relations Department toll free at 1-800-772-7589.

**Change of Address**

You should notify us promptly of any change in your mailing address. For your protection, please submit your address change to us in writing at the address below. If you should have any questions, please call our toll free Customer Relations line for assistance at 1-800-772-7589 or in the Houston area at 713-646-4460.

RETURN THE EXECUTED DIVISION ORDER AND EXHIBIT 'A' PROVIDED TO THE ADDRESS BELOW.  
KEEP ONE COPY FOR YOUR RECORDS.

Plains Marketing L.P.  
Attention: Division Order  
P.O. Box 4648  
Houston, TX 77210-4648

**PLEASE NOTE THAT AN IMPROPERLY EXECUTED DIVISION ORDER WILL NOT BE PROCESSED FOR PAYMENT AND WILL BE RETURNED FOR PROPER EXECUTION.**



( DO NOT DETACH FROM PAGE ONE OF DIVISION ORDER )

**EXHIBIT 'A'**

**PROPERTY NUMBER: 01 191544**

**OWNER: 0062639**

OWNER	NAME/ADDRESS	SSN/TIN	INTEREST	TYPE	PAY ST	EFFECTIVE	CLAUSES	REQUIREMENTS
0062639	COMMISSIONER GENERAL LD OFFICE STATE OF TEXAS 1700 NORTH CONGRESS AVENUE AUSTIN, TX 78701	[REDACTED]	0.00644610	RI	3U	04/01/2013	1	N/A

**CLAUSES**

- 1 EFFECTIVE WITH APRIL 2013 PRODUCTION, PLAINS MARKETING, L.P. WAS DESIGNATED AS OIL PURCHASER FOR THE CURRIE E STATE #3108 LEASE BY THE OPERATOR, COG OPERATING LLC. THIS DIVISION ORDER WAS PREPARED BASED ON INFORMATION PROVIDED BY THE OPERATOR.

**LEGAL DESCRIPTION**

SE/4 SECTION 31, BLOCK 32, T-4-S, T&P RY CO. SURVEY, A-79  
GLASSCOCK COUNTY, TEXAS

File No. MF 112053  
Division Order

Date Filed: 7/8/13  
By Jerry E. Patterson, Comissioner  
EA



**DO NOT DESTROY**



**Texas General Land Office  
UNIT AGREEMENT MEMO**

UPA148018

Unit Number 6691  
 Operator Name Cog Operating Llc Effective Date 08/06/2013  
 Customer ID C006044811 Unitized For Oil And Gas  
 Unit Name Currie "E" State #4104 Unit Term  
 County 1 Glasscock RRC District 1 08 Old Unit Number Inactive Status Date  
 County 2 RRC District 2  
 County 3 RRC District 3  
 County 4 RRC District 4  
 Unit type Permanent  
 State Net Revenue Interest 0.00720145  
 State Part in Unit 0.02880581  
 Unit Depth Allow All Depths Well  
 From Depth Formation  
 To Depth Participation Basis Surface Acreage  
 If Excluions Apply: See Remarks

Lease Number	Tract No	Lease Acres in Unit	Total Unit Acres	Tract Participation	Lease Royalty	Tract Royalty Participation	Royalty Rate Reduction Clause
MF112153	1	4.60	159.69	0.028806	0.25000000	0.007201	No

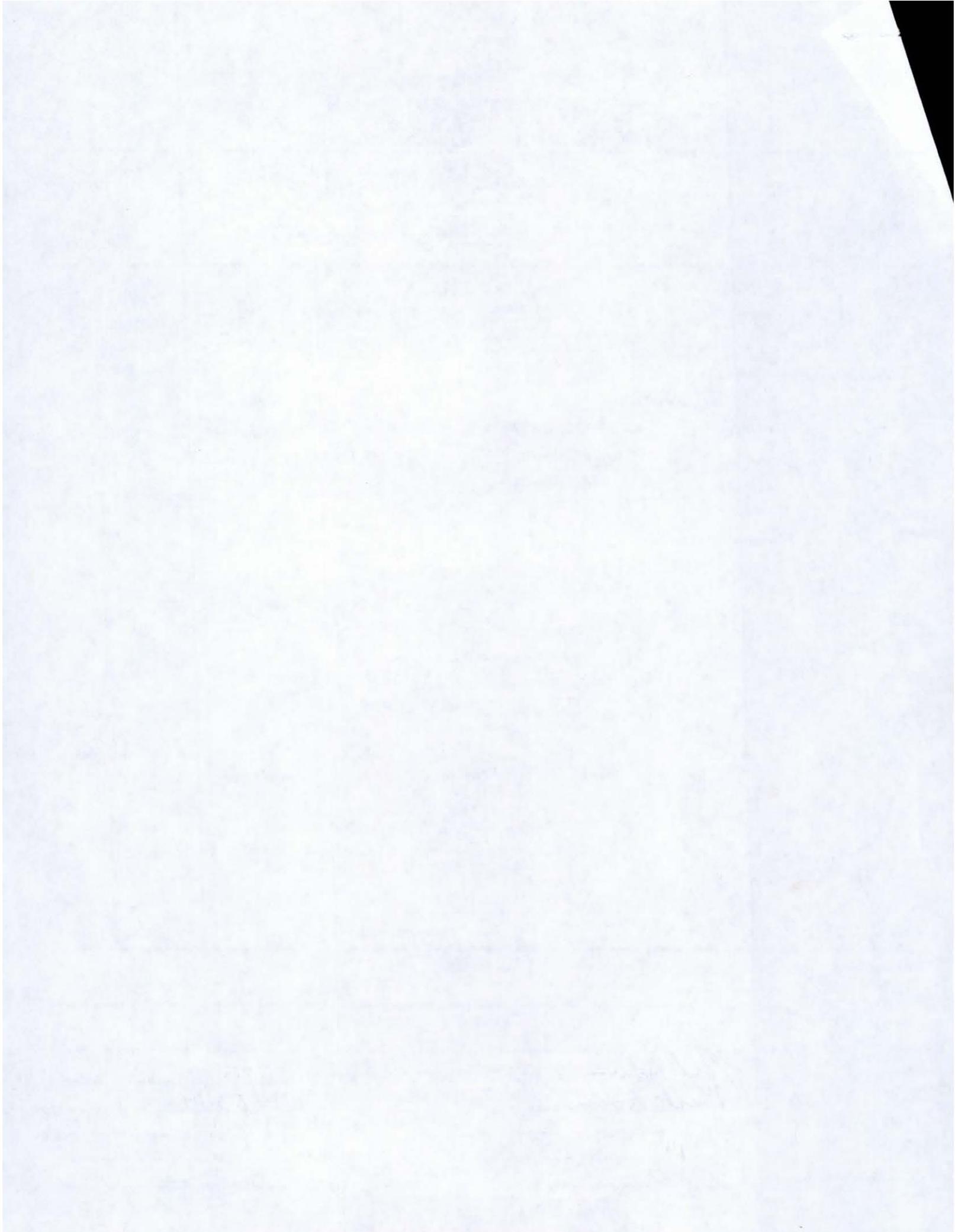
API Number  
4217335662 ✓

Remarks:

[Empty box for Remarks]

Prepared By: Mark Adams  
 GLO Base Updated By: Mark Adams  
 RAM Approval By: [Signature]  
 GIS By: [Signature]  
 Well Inventory By: [Signature]

Prepared Date: 1/23/14  
 GLO Base Date: 1/23/14  
 RAM Approval Date: 1/27/14  
 GIS Date: \_\_\_\_\_  
 WI Date: 1/27/14



# Pooling Committee Report

To: School Land Board

UPA148018

Date of Board Meeting:

Unit Number: 6691

Effective Date: 08/06/2013

Unit Expiration Date:

Applicant:

Attorney Rep:

Operator: Cog Operating Llc

Unit Name: Currie "E" State #4104

Field Name: Garden City, S. (Wolfcamp)

County:

Glasscock

<u>Lease Type</u>	<u>Lease Number</u>	<u>Lease Royalty</u>	<u>Expiration Date</u>	<u>Lease Term</u>	<u>Lease Acres</u>	<u>Lease Acres In Unit</u>	<u>Royalty Participation</u>
HROW	MF112153	0.25000000	04/05/2014	3 years	75.320	4.600	0.00720145

<b>Private Acres:</b>	155.090000
<b>State Acres:</b>	4.600000
<b>Total Unit Acres:</b>	159.690000

<b>Participation Basis:</b>	Surface Acreage
Surface Acreage	
<b>State Acreage:</b>	2.88%
<b>State Net Revenue Interest:</b>	0.72%

<b>Unit Type:</b>	<b>Unitized for:</b>
Permanent	Oil And Gas
<b>Term:</b>	

<b>RRC Rules:</b>	<b>Spacing Acres:</b>
No	

#132858

#6691  
BOOK 231 PAGE 482

**DESIGNATION OF POOLED UNIT**

MF 112153  
HROW Unit

**COG Operating LLC  
Currie "E" State #4104 Pooled Unit  
Glasscock County, Texas**

This Designation of Pooled Unit is made and entered into effective as of August 6, 2013 by and between the undersigned owners of the oil and gas leases described in Exhibit "A" hereof embracing lands in Glasscock County, Texas and by and between the undersigned owners of royalty in and under the lands described in Exhibit "A" hereof.

**WITNESSETH:**

1. Each of said oil and gas leases embraces a portion of the lands within the pooled unit and collectively embraces the entire pooled unit.

2. The owners of said oil and gas leases desire to pool the oil and gas leases described in Exhibit "A" hereof (INSOFAR, but only insofar as said oil and gas leases cover and affect lands lying within the unit area).

3. The owners of the royalty in and under the lands described in Exhibit "A" hereof hereby consent to this Designation of Pooled Unit (INSOFAR, but only insofar as said oil and gas leases cover and affect lands lying within the unit area).

4. The unit area shall consist of 159.69 acres, more or less, in Glasscock County, Texas, as described and referred to in Exhibit "A" hereto as to all depths and formations.

5. The owners of said oil and gas leases commit all of their interest and all interest over which they hold pooling privilege or power by virtue of said oil and gas leases, amendment and/or ratifications thereof, other instruments or by operation of law and which are within the above described unit area, and by these presents do hereby pool said oil and gas leases, the leasehold rights, and royalty interest therein, insofar as said leases, rights and interest cover and affect the lands described in Exhibit "A" for the drilling and production of oil, gas, condensate, casinghead gas and other hydrocarbons hereinafter at times referred to as "pooled mineral."

(a) The unit shall be operated as an entirety for the exploration, development, and production of the pooled mineral, rather than as separate tracts.

(b) All drilling operations, reworking or other operations with respect to the pooled mineral on lands within the unit shall be considered as though the same were on each separate tract in the unit, regardless of the actual location of the well or wells thereon, for all purposes under the terms of the respective leases or other contracts thereon and this agreement.

(c) Production of the pooled mineral from the unit allocated to each separate tract, respectively, as hereinafter provided, shall be deemed to have been produced from each separate tract in the unit, regardless of the actual location of the well or wells thereon, for all purposes under the terms of the respective leases or other contracts thereon and this agreement.

(d) All rights to the production of the pooled mineral from the unit, including royalties and other payments, shall be determined and governed by the lease or other contract pertaining to each separate tract, respectively, based upon the production so allocated to such tract only, and in lieu of the actual production of the pooled mineral therefrom.

6. For the purposes of computing the royalty to which each Lessor or royalty owner shall be entitled on production of oil or gas and condensate there shall be allocated to each tract committed to the above referred unit, that pro rata portion from the pooled mineral produced from the pooled unit which the number of surface acres contained in each such tract bears to the total number of surface acres included in the pooled unit.

7. Notwithstanding anything contained elsewhere in this Designation of Pooled Unit, it is expressly understood and agreed that nothing contained in this Designation of Pooled Unit shall modify or affect (i) the continuous development provisions, the horizontal and vertical lease

Designation of Pooled Unit  
Currie "E" State #4104 Pooled Unit

termination provisions or the separate lease provisions contained in Lease No. 1 described on Exhibit "A" attached hereto ("Lease 1"); or (ii) the Lessee's implied covenant to reasonably develop the lands covered by Lease 1, if any. It is further expressly understood and agreed that upon partial termination of Lease 1 pursuant to its terms as to any portion of Tract No. 1 described on Exhibit "A" attached hereto, neither the terminated portion of Lease 1 nor that portion of the mineral interest in said Tract No. 1 that was subject to Lease 1 prior to such partial termination shall remain subject to the terms of this Designation of Pooled Unit. Provided, notwithstanding (i) and (ii) above or other language of this paragraph, a unit well shall be deemed a well on Lease No. 1 for purposes of: (a) extending the continuous development period of Lease No. 1, if and to the extent, but only if and to the extent, it would do so if drilled on Lease No. 1 in the absence of pooling and (b) determining compliance with Lease No. 1's implied duty of reasonable development, if any.

The declaration may be executed in counterpart, none of which needs to be executed by all parties, or may be ratified or consented to by separate instruments and shall be binding upon both parties who have executed such a counterpart, ratification or consent.

IN WITNESS WHEREOF, the parties hereto have executed this agreement upon the respective dates of their acknowledgments.

Lessee under Leases 1 & 2:

**COG Operating LLC**

**Chevron Midcontinent, L.P.**

By: Chevron Midcontinent Operations LLC,  
General Partner

By: Mona D. Ables  
Mona D. Ables  
Vice President of Land

By: \_\_\_\_\_  
D. K. Beckham  
Attorney-in-Fact

**Baqash Resources LP**

**Tekar Tech, L.P.**

By: Baqash Resources Management LLC.  
General Partner

By: TCB Management, LLC.  
General Partner

Damian G. Barrett  
Damian G. Barrett, Manager

Terence Craig Burkes  
Terence Craig Burkes, President

**L & K Gates Resources LP**

By: Lawrence C. Gates  
Lawrence C. Gates, Manager

\_\_\_\_\_  
**Kathrin A. Lewis**

\_\_\_\_\_  
**Sharon F. Temple**

Designation of Pooled Unit  
Currie "E" State #4104 Pooled Unit

termination provisions or the separate lease provisions contained in Lease No. 1 described on Exhibit "A" attached hereto ("Lease 1"); or (ii) the Lessee's implied covenant to reasonably develop the lands covered by Lease 1, if any. It is further expressly understood and agreed that upon partial termination of Lease 1 pursuant to its terms as to any portion of Tract No. 1 described on Exhibit "A" attached hereto, neither the terminated portion of Lease 1 nor that portion of the mineral interest in said Tract No. 1 that was subject to Lease 1 prior to such partial termination shall remain subject to the terms of this Designation of Pooled Unit. Provided, notwithstanding (i) and (ii) above or other language of this paragraph, a unit well shall be deemed a well on Lease No. 1 for purposes of: (a) extending the continuous development period of Lease No. 1, if and to the extent, but only if and to the extent, it would do so if drilled on Lease No. 1 in the absence of pooling and (b) determining compliance with Lease No. 1's implied duty of reasonable development, if any.

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IN WITNESS WHEREOF, the parties hereto have executed this agreement upon the respective dates of their acknowledgments.

Lessee under Leases 1 & 2:

**COG Operating LLC**

**Chevron Midcontinent, L.P.**

By: Chevron Midcontinent Operations LLC,  
General Partner

By: Mona D. Ables  
Mona D. Ables  
Vice President of Land

By: D. K. Beckham  
D. K. Beckham  
Attorney-in-Fact

**Baqash Resources LP**

**Tekar Tech, L.P.**

By: Baqash Resources Management LLC.  
General Partner

By: TCB Management, LLC.  
General Partner

Damian G. Barrett  
Damian G. Barrett, Manager

Terence Craig Burkes, President

**L & K Gates Resources LP**

By: Lawrence C. Gates  
Lawrence C. Gates, Manager

Kathrin A. Lewis  
Kathrin A. Lewis

Sharon F. Temple

Designation of Pooled Unit  
Currie "E" State #4104 Pooled Unit

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The declaration may be executed in counterpart, none of which needs to be executed by all parties, or may be ratified or consented to by separate instruments and shall be binding upon both parties who have executed such a counterpart, ratification or consent.

IN WITNESS WHEREOF, the parties hereto have executed this agreement upon the respective dates of their acknowledgments.

Lessee under Leases 1 & 2:

**COG Operating LLC**

By: Mona D. Ables  
Mona D. Ables  
Vice President of Land

**Chevron Midcontinent, L.P.**

By: Chevron Midcontinent Operations LLC,  
General Partner

By: \_\_\_\_\_  
D. K. Beckham  
Attorney-in-Fact

**Baqash Resources LP**

By: Baqash Resources Management LLC.  
General Partner

Damian G. Barrett  
Damian G. Barrett, Manager

**Tekar Tech, L.P.**

By: TCB Management, LLC.  
General Partner

\_\_\_\_\_  
Terence Craig Burkes, President

**L & K Gates Resources LP**

By: Lawrence C. Gates  
Lawrence C. Gates, Manager

\_\_\_\_\_  
Kathrin A. Lewis

Sharon F. Temple  
Sharon F. Temple

Designation of Pooled Unit  
Currie "E" State #4104 Pooled Unit

**Royalty Owners Under Lease 1:**

**CCH Ranch Investments LP**  
By: CCH Ranch Management LLC  
General Partner

By: Cynthia C. Howard  
Cynthia C. Howard  
President

**DCT Ranch Investments LP**  
By: DCT Ranch Management LLC  
General Partner

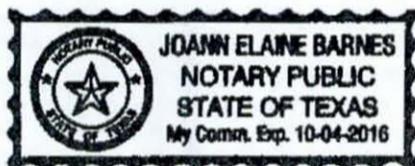
By: Darla C. Taylor  
Darla C. Taylor  
President

**ACKNOWLEDGMENTS**

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was acknowledged before me on 12<sup>th</sup> day of August, 2013, by **MONA D. ABLES**, as Vice President of Land of **COG OPERATING LLC**, a Delaware limited liability company on behalf of said limited liability company.

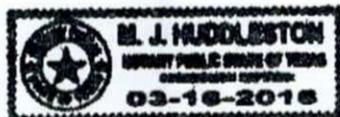


Joann Elaine Barnes  
Notary Public, State of Texas

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was acknowledged before me on 3<sup>rd</sup> day of October, 2013, by **D. K. BECKHAM**, as Attorney-in-Fact for Chevron Midcontinent Operations LLC, a Delaware limited liability company, as General Partner of **CHEVRON MIDCONTINENT, L.P.**, a Texas limited partnership, on behalf of said limited partnership..



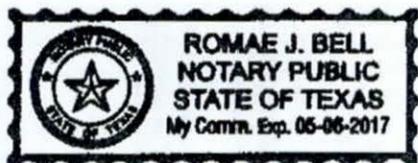
M. J. Huddleston  
Notary Public, State of Texas

My commission expires:  
3/16/2016

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was acknowledged before me on 5<sup>th</sup> day of September, 2013, by **TERENCE CRAIG BURKES**, as President for TCB Management, LLC, a Texas limited liability company, as General Partner of **TEKAR TECH, L.P.**, a Texas limited partnership, on behalf of said limited partnership.



Romae J. Bell  
Notary Public, State of Texas

Designation of Pooled Unit  
Currie "E" State #4104 Pooled Unit

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was acknowledged before me on 3<sup>rd</sup> day of September, 2013, by **DAMIAN G. BARRETT**, as Manager for Baqash Resources Management LLC, a Texas limited liability company, as General Partner of BAQASH RESOURCES LP, a Texas limited partnership, on behalf of said limited partnership.

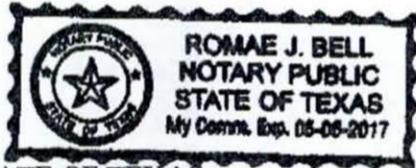


Romae J. Bell  
Notary Public, State of Texas

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was acknowledged before me on 3<sup>rd</sup> day of September, 2013, by **LAWRENCE C. GATES**, as Manager of **L & K GATES RESOURCES LP**, a Texas limited partnership, on behalf of said limited partnership.

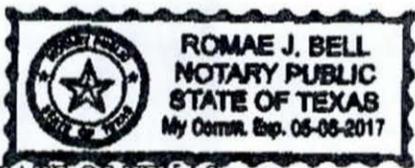


Romae J. Bell  
Notary Public, State of Texas

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was acknowledged before me on 11<sup>th</sup> day of September, 2013, by **KATHRIN A. LEWIS**.



Romae J. Bell  
Notary Public, State of Texas

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was personally acknowledged before me on 1<sup>st</sup> day of October, 2013 by **SHARON F. TEMPLE**.



Romae J. Bell  
Notary Public, State of Texas

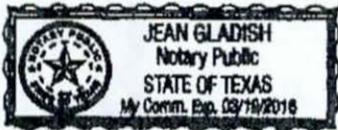
Designation of Pooled Unit  
Currie "E" State #4104 Pooled Unit

ACKNOWLEDGMENTS

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was personally acknowledged before me on 15<sup>th</sup> day of August, 2013, by **CYNTHIA C. HOWARD**, President of CCH Ranch Management LLC, General partner of **CCH RANCH INVESTMENTS LP**, a Texas limited partnership, on behalf of said limited partnership.



Jean Gladish  
Notary Public, State of Texas

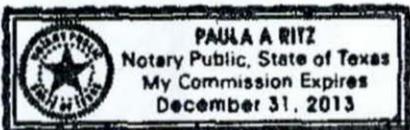
My commission expires:

\_\_\_\_\_

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was personally acknowledged before me on 17 day of August, 2013, by **DARLA C. TAYLOR**, President of DCT Ranch Management LLC, General Partner of **DCT RANCH INVESTMENTS LP**, a Texas limited partnership, on behalf of said limited partnership.



Paula A. Ritz  
Notary Public, State of Texas

My commission expires:

\_\_\_\_\_

Designation of Pooled Unit  
Currie "E" State 4104 Pooled Unit**EXHIBIT "A"**  
**DESIGNATION OF POOLED UNIT**COG Operating LLC  
Currie "E" State #4104 Pooled Unit  
Glasscock County, TexasDescription of Pooled Unit**Currie "E" State #4104 Unit**

SE/4 of Section 41, Block 32, Township 4 South, T &amp; P Ry. Co. Survey, A-82, containing 159.69 acres, more or less:

Tract No. 1**A tract of land containing 155.09 acres, more or less, being all of SE/4 of Section 41, Block 32, Township 4 South, T & P Ry. Co. Survey, A-82, Glasscock County, Texas, containing 159.69 acres, more or less, SAVE AND EXCEPT 4.60 acres, more or less, being the right-of-way of State Highway 158, described more particularly by metes and bounds in Tract No. 2 below.**Tract No. 2**A tract of land containing 4.60 acres, more or less, out of SE/4 of Section 41, Block 32, Township 4 South, T&P Ry. Co. Survey, Glasscock County, Texas, being the right-of-way of State Highway 158, described more particularly by metes and bounds as shown on the plat attached hereto:**Leases Committed to Pooled Unit:Lease No. 1

Lessor: James R. Currie, Individually and as Trustee, joined by his wife, Jimmie R. Currie; Cynthia C. Howard; and Darla C. Taylor.

Lessee: Henry Petroleum LP

Date: December 5, 2005

Recording: Memorandum of Lease recorded Volume 89, Page 652 of Official Public Records of Glasscock County, Texas

Description: Insofar as and only insofar as said lease covers Tract 1 described above.

Lease No. 2

Lessor: Commissioner of the General Land Office of the State of Texas  
Lease No. (MF 112153)

Lessee: COG Operating LLC

Date: April 5, 2011

Recording: Volume 166, Page 148 of Official Public Records of Glasscock County,  
Texas

Description: Insofar as and only insofar as said lease covers Tract 2 described above.

End of Exhibit "A" to Currie "E" State #4104 Pooled Unit - Designation of Pooled Unit

LEGAL DESCRIPTION

BEING a 4.80 acre tract of land out of a tract belonging to James R. Currie, Trustee, according to Volume 146, Page 507, Deed Records Glasscock County Texas, located in the southeast quarter (SE/4) of Section 41, Block 32, T-4-S, T. & P. RR. Co. Survey, Glasscock County, Texas and being more particularly described as follows:

BEGINNING at a spike with a metal washer marked "WEST CO. MIDLAND" set in the north right-of-way of State Highway 158, and on the east line of said Section 41, for the most southerly northeast corner of this tract, from which the calculated northeast corner of said Section 41 bears N 14°00'15" W, a distance of 3811.54 feet, from said calculated corner, an old stone mound found for the northeast corner of Section 24, Block 33, T-4-S, T. & P. RR. Co. Survey bears N 47°36'01" W, a distance of 18048.68 feet;

THENCE S 14°00'15" E, with the east line of said Section 41, commencing with the west line of Section 40, Block 32, T-4-S, T. & P. RR. Co. Survey, a distance of 178.77 feet to a spike with a metal washer marked "WEST CO. MIDLAND" set on the east line of said Section 41 and in the south right-of-way of said State Highway 158 for the most southerly corner of this tract;

THENCE N 85°57'25" W, with the south right-of-way of said State Highway 158, a distance of 1780.53 feet to a spike with a metal washer marked "WEST CO. MIDLAND" set in the south right-of-way of said State Highway 158 and on the north line of the southeast quarter (SE/4) of said Section 41 for the most northwesterly corner of this tract, from which the calculated southwest corner of said Section 41 bears S 42°25'57" W, a distance of 4880.82 feet, from said calculated corner, an iron pipe found for the northwest corner of Section 5, Block 32, T-4-S, T. & P. RR. Co. Survey bears S 25°37'45" W, a distance of 5731.78 feet;

THENCE N 75°27'45" E, with the north line of the southeast quarter (SE/4) of said Section 41, a distance of 180.01 feet to a spike with a metal washer marked "WEST CO. MIDLAND" set on the north line of the southeast quarter (SE/4) of said Section 41 and in the north right-of-way of said State Highway 158 for the most northerly northeast corner of this tract;

THENCE S 85°37'25" E, with the north right-of-way of said State Highway 158, a distance of 1550.81 feet to the POINT OF BEGINNING and containing 4.80 acres of land.

SEE SHEET 1 OF 2 FOR A DETAILED SKETCH OF THIS TRACT OF LAND

NOTE:

- 1) Plane Coordinates, Bearings and Distances shown herein are Lambert Grid and Conform to the "Texas Coordinate System", Texas Central Zone, North American Datum of 1983. Acreages shown herein are mean surface values.
- 2) See information filed in the office of this Surveyor which describes the reconstruction of this tract.

I HEREBY CERTIFY THAT THIS PLAN AND NOTES TAKEN IN THE FIELD IN A SURVEY MADE UNDER MY SUPERVISION.

*Wade Mertz*  
WADE MERTZ REGISTERED SURVEYOR



**WEST COMPANY**

150 W. LOUISIANA, STE. 150  
MCKINNEY, TEXAS 75069-2494  
OFFICE: (972) 562-0888 FAX: (972) 562-0889  
WWW.PAGEONE.SURVEYING.COM  
Email: Survey@pageone-surveying.com



**COG OPERATING, LLC**

TRACT SURVEY  
4.80 ACRES IN STATE HIGHWAY 158 ROW  
OUT OF THE SE/4 OF  
SECTION 41, BLOCK 32, T-4-S,  
T. & P. RR. CO. SURVEY  
GLASSCOCK CO., TEXAS

Drawn By: D.E.H.	Date: June 7, 2013
Scale: 1"=1000'	Reviewed:
Sheet 2 of 2	Field Note Book: COG 1002/3-1
W.O. No: 2013-0879-02	Doc. No: 2013-0879-02-SE-1-41.DWG

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FILED  
AT 10:00 O'CLOCK A M  
ON THE 18 DAY OF Oct.  
A.D., 2013  
INS. NO. 132858

Rebecca Batda  
COUNTY CLERK, GLASSCOCK COUNTY, TEXAS  
BY Adriana Ruiz  
DEPUTY

STATE OF TEXAS  
COUNTY OF GLASSCOCK

I hereby certify that this instrument was FILED on the date and at the time stamped hereon by me and was duly RECORDED in the Volume and Page of the named RECORDS of Glasscock County, Texas, as stamped hereon by me.



Rebecca Batda  
County Clerk, Glasscock County, Texas

OFFICIAL PUBLIC RECORDS  
VOL. 231 PAGE 482  
RECORDED Oct. 18, 2013

#6691



**Information for Highway Right-of-Way Unit Declaration**

Texas General Land Office  
Jerry Patterson, Commissioner  
1700 North Congress Avenue  
Austin, Texas 78701-1495

**OPERATOR INFORMATION**

Contact Name: Mr. Joe Dutton Phone (432) 818-2211

Name of Pooled Unit Currie E State #104

Operator of Pooled Unit COG Operating LLC County Glasscock

Effective Date of Unit Declaration: August 6, 2013

**HROW LEASE(S) IN UNIT**

HROW State Lease No.	Lease Date	Term	HROW Royalty	Total Lease Acreage	Lease Acreage in Unit
MF-112153	4/5/2011	3 years	1/4	75.32	4.60

0.00720145

State's Royalty Revenue Interest in Unit: 0.720146%

Total Acreage In Pooled Unit 159.69 Ac.

Total HROW Acreage In Unit 4.60 Ac.

Total Private Acreage In Unit 155.09 Ac.

Attach a plat showing the pooled unit outline, unit well(s) location, and HROW lease tracts.

Type of Mineral Pooled:  Oil  Gas  Oil & Gas

Pooled Interval: All Depths  X Top Depth \_\_\_\_\_ Base Depth \_\_\_\_\_

If pooling a Formation(s) please list Formation Name: All Formations

RRC Field Name(s): Garden City, S. (Wolfcamp Field)

**UNIT WELL(S)**

API # 42-173-35662 RRC ID# 166150

API # \_\_\_\_\_ RRC ID# \_\_\_\_\_

API # \_\_\_\_\_ RRC ID# \_\_\_\_\_

API # \_\_\_\_\_ RRC ID# \_\_\_\_\_

Revd. 11/1/13

(21)

File No. MF112153

Unit # 6691, Currie "E"

State #4204

Date Filed: 11/1/13

Jerry E. Patterson, Commissioner

By M.A.

# DO NOT DESTROY



## Texas General Land Office UNIT AGREEMENT MEMO

UPA148140

Unit Number 6813  
Operator Name COG Operating LLC Effective Date 11/08/2013  
Customer ID C000044811 Unitized For Oil And Gas  
Unit Name Currie "E" State #3207 Unit Term  
County 1 Glasscock RRC District 1 08 Old Unit Number Inactive Status Date  
County 2 RRC District 2  
County 3 RRC District 3  
County 4 RRC District 4  
Unit type Permanent  
State Net Revenue Interest 0.01704723  
State Part in Unit 0.06818893  
Unit Depth Allow All Depths Well  
From Depth Formation  
To Depth Participation Basis Surface Acreage  
If Exclusions Apply: See Remarks

Lease Number	Tract No	Lease Acres in Unit	Total Unit Acres	Tract Participation	Lease Royalty	Tract Royalty Participation	Royalty Rate Reduction Clause
MF112153	1	10.900000	159.850000	0.068189	0.25000000	0.017047	No

API Number  
4217335964 ✓

Remarks:

Prepared By: Mark Adan  
GLO Base Updated By: Mark Adan  
RAM Approval By: DWILLER  
GIS By: MC  
Well Inventory By: MB

Prepared Date: 4/14/14  
GLO Base Date: 4/14/14  
RAM Approval Date: 4.17.14  
GIS Date: \_\_\_\_\_  
WI Date: 4/15/14

# Pooling Committee Report

To: School Land Board

UPA148140

Date of Board Meeting:

Unit Number: 6813

Effective Date: 11/08/2013

Unit Expiration Date:

Applicant:

Attorney Rep:

Operator: Cog Operating Llc, Midland

Unit Name: Currie "E" State #3207

Field Name: Garden City, S. (Wolfcamp)

County:

Glasscock

<u>Lease Type</u>	<u>Lease Number</u>	<u>Lease Royalty</u>	<u>Expiration Date</u>	<u>Lease Term</u>	<u>Lease Acres</u>	<u>Lease Acres In Unit</u>	<u>Royalty Participation</u>
HROW	MF112153	0.25000000	04/05/2014	3 years	75.320000	10.900000	0.01704723

<b>Private Acres:</b>	148.950000
<b>State Acres:</b>	10.900000
<b>Total Unit Acres:</b>	159.850000

<b>Participation Basis:</b>	Surface Acreage
Surface Acreage	
<b>State Acreage:</b>	6.82%
<b>State Net Revenue Interest:</b>	1.70%

<b>Unit Type:</b>	<b>Unitized for:</b>
Permanent	Oil And Gas
<b>Term:</b>	

<b>RRC Rules:</b>	<b>Spacing Acres:</b>
No	

#140522

**DESIGNATION OF POOLED UNIT**

**COG Operating LLC  
Currie "E" State #3207 Pooled Unit  
Glasscock County, Texas**

This Designation of Pooled Unit is made and entered into effective as of November 8, 2013, by and between the undersigned owners of the oil and gas leases described in Exhibit "A" hereof embracing lands in Glasscock County, Texas and by and between the undersigned owners of royalty in and under the lands described in Exhibit "A" hereof.

**WITNESSETH:**

1. Each of said oil and gas leases embraces a portion of the lands within the pooled unit and collectively embraces the entire pooled unit.

2. The owners of said oil and gas leases desire to pool the oil and gas leases described in Exhibit "A" hereof (INSOFAR, but only insofar as said oil and gas leases cover and affect lands lying within the unit area).

3. The owners of the royalty in and under the lands described in Exhibit "A" hereof hereby consent to this Designation of Pooled Unit (INSOFAR, but only insofar as said oil and gas leases cover and affect lands lying within the unit area).

4. The unit area shall consist of 159.85 acres, more or less, in Glasscock County, Texas, as described and referred to in Exhibit "A" hereto as to all depths and formations.

5. The owners of said oil and gas leases commit all of their interest and all interest over which they hold pooling privilege or power by virtue of said oil and gas leases, amendment and/or ratifications thereof, other instruments or by operation of law and which are within the above described unit area, and by these presents do hereby pool said oil and gas leases, the leasehold rights, and royalty interest therein, insofar as said leases, rights and interest cover and affect the lands described in Exhibit "A" for the drilling and production of oil, gas, condensate, casinghead gas and other hydrocarbons hereinafter at times referred to as "pooled mineral."

(a) The unit shall be operated as an entirety for the exploration, development, and production of the pooled mineral, rather than as separate tracts.

(b) All drilling operations, reworking or other operations with respect to the pooled mineral on lands within the unit shall be considered as though the same were on each separate tract in the unit, regardless of the actual location of the well or wells thereon, for all purposes under the terms of the respective leases or other contracts thereon and this agreement.

(c) Production of the pooled mineral from the unit allocated to each separate tract, respectively, as hereinafter provided, shall be deemed to have been produced from each separate tract in the unit, regardless of the actual location of the well or wells thereon, for all purposes under the terms of the respective leases or other contracts thereon and this agreement.

(d) All rights to the production of the pooled mineral from the unit, including royalties and other payments, shall be determined and governed by the lease or other contract pertaining to each separate tract, respectively, based upon the production so allocated to such tract only, and in lieu of the actual production of the pooled mineral therefrom.

6. For the purposes of computing the royalty to which each Lessor or royalty owner shall be entitled on production of oil or gas and condensate there shall be allocated to each tract committed to the above referred unit, that pro rata portion from the pooled mineral produced from the pooled unit which the number of surface acres contained in each such tract bears to the total number of surface acres included in the pooled unit.

7. Notwithstanding anything contained elsewhere in this Designation of Pooled Unit, it is expressly understood and agreed that nothing contained in this Designation of Pooled Unit shall modify or affect (i) the continuous development provisions, the horizontal and vertical lease

Designation of Pooled Unit  
Currie "E" State 3207 Pooled Unit

termination provisions or the separate lease provisions contained in Lease No. 1 described on Exhibit "A" attached hereto ("Lease 1"); or (ii) the Lessee's implied covenant to reasonably develop the lands covered by Lease 1, if any. It is further expressly understood and agreed that upon partial termination of Lease 1 pursuant to its terms as to any portion of Tract No. 1 described on Exhibit "A" attached hereto, neither the terminated portion of Lease 1 nor that portion of the mineral interest in said Tract No. 1 that was subject to Lease 1 prior to such partial termination shall remain subject to the terms of this Designation of Pooled Unit. Provided, notwithstanding (i) and (ii) above or other language of this paragraph, a unit well shall be deemed a well on Lease No. 1 for purposes of: (a) extending the continuous development period of Lease No. 1, if and to the extent, but only if and to the extent, it would do so if drilled on Lease No. 1 in the absence of pooling and (b) determining compliance with Lease No. 1's implied duty of reasonable development, if any.

The declaration may be executed in counterpart, none of which needs to be executed by all parties, or may be ratified or consented to by separate instruments and shall be binding upon both parties who have executed such a counterpart, ratification or consent.

IN WITNESS WHEREOF, the parties hereto have executed this agreement upon the respective dates of their acknowledgments.

Lessee under Leases 1 & 2:

**COG Operating LLC**

**Chevron Midcontinent, L.P.**

By: Chevron Midcontinent Operations LLC,  
General Partner

By: Mona D. Ables  
Mona D. Ables  
Vice President of Land *MD*

By: \_\_\_\_\_  
D. K. Beckham  
Attorney-in-Fact

**Baqash Resources LP**

**Tekar Tech, L.P.**

By: Baqash Resources Management LLC.  
General Partner

By: TCB Management, LLC.  
General Partner

Damian G. Barrett  
Damian G. Barrett, Manager

Terence Craig Burkes  
Terence Craig Burkes, President

**L & K Gates Resources LP**

By: Lawrence C. Gates  
Lawrence C. Gates, Manager

\_\_\_\_\_  
Kathrin A. Lewis

\_\_\_\_\_  
Sharon F. Temple

Designation of Pooled Unit  
Currie "E" State 3207 Pooled Unit

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**COG Operating LLC**

By: Mona D. Ables  
Mona D. Ables  
Vice President of Land *MD*

**Baqash Resources LP**  
By: Baqash Resources Management LLC.  
General Partner

\_\_\_\_\_  
Damian G. Barrett, Manager

**L & K Gates Resources LP**

By: Lawrence C. Gates  
Lawrence C. Gates, Manager

\_\_\_\_\_  
Sharon F. Temple

**Chevron Midcontinent, L.P.**

By: Chevron Midcontinent Operations LLC,  
General Partner

By: D. K. Beckham  
D. K. Beckham  
Attorney-in-Fact

**Tekar Tech, L.P.**  
By: TCB Management, LLC.  
General Partner

\_\_\_\_\_  
Terence Craig Burkes, President

\_\_\_\_\_  
Kathrin A. Lewis

Designation of Pooled Unit  
Currie "E" State 3207 Pooled Unit

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Lessee under Leases 1 & 2:

**COG Operating LLC**

By: Mona D. Ables  
Mona D. Ables  
Vice President of Land *MD*

**Chevron Midcontinent, L.P.**

By: Chevron Midcontinent Operations LLC,  
General Partner

By: \_\_\_\_\_  
D. K. Beckham  
Attorney-in-Fact

**Baqash Resources LP**

By: Baqash Resources Management LLC.  
General Partner

**Tekar Tech, L.P.**

By: TCB Management, LLC.  
General Partner

\_\_\_\_\_  
Damian G. Barrett, Manager

\_\_\_\_\_  
Terence Craig Burkes, President

**L & K Gates Resources LP**

By: Lawrence C. Gates  
Lawrence C. Gates, Manager

Kathrin A. Lewis  
Kathrin A. Lewis

\_\_\_\_\_  
Sharon F. Temple

Designation of Pooled Unit  
Currie "E" State 3207 Pooled Unit

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IN WITNESS WHEREOF, the parties hereto have executed this agreement upon the respective dates of their acknowledgments.

Lessee under Leases 1 & 2:

**COG Operating LLC**

**Chevron Midcontinent, L.P.**

By: Chevron Midcontinent Operations LLC,  
General Partner

By: Mona D. Ables  
Mona D. Ables  
Vice President of Land *MD*

By: \_\_\_\_\_  
D. K. Beckham  
Attorney-in-Fact

**Baqash Resources LP**

**Tekar Tech, L.P.**

By: Baqash Resources Management LLC.  
General Partner

By: TCB Management, LLC.  
General Partner

\_\_\_\_\_  
Damian G. Barrett, Manager

\_\_\_\_\_  
Terence Craig Burkes, President

**L & K Gates Resources LP**

By: Lawrence C. Gates  
Lawrence C. Gates, Manager

\_\_\_\_\_  
Kathrin A. Lewis

Sharon F. Temple by: Erin Temple  
Sharon F. Temple

Designation of Pooled Unit  
Currie "E" State 3207 Pooled Unit

**Royalty Owners Under Lease 1:**

**CCH Ranch Investments LP**

By: CCH Ranch Management LLC  
General Partner

By: Cynthia C. Howard  
Cynthia C. Howard  
President

**DCT Ranch Investments LP**

By: DCT Ranch Management LLC  
General Partner

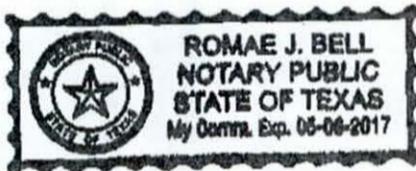
By: Darla C. Taylor  
Darla C. Taylor  
President

**ACKNOWLEDGMENTS**

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was acknowledged before me on 10<sup>th</sup> day of December, 2013, by **MONA D. ABLES**, as Vice President of Land of **COG OPERATING LLC**, a Delaware limited liability company on behalf of said limited liability company.



Romae J. Bell  
Notary Public, State of Texas

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was acknowledged before me on \_\_\_ day of \_\_\_\_\_, 2013, by **D. K. BECKHAM**, as Attorney-in-Fact for Chevron Midcontinent Operations LLC, a Delaware limited liability company, as General Partner of **CHEVRON MIDCONTINENT, L.P.**, a Texas limited partnership, on behalf of said limited partnership..

\_\_\_\_\_  
Notary Public, State of Texas

My commission expires:  
\_\_\_\_\_

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was acknowledged before me on 19<sup>th</sup> day of December, 2013, by **TERENCE CRAIG BURKES**, as President for TCB Management, LLC, a Texas limited liability company, as General Partner of **TEKAR TECH, L.P.**, a Texas limited partnership, on behalf of said limited partnership.



Romae J. Bell  
Notary Public, State of Texas

Designation of Pooled Unit  
Currie "E" State 3207 Pooled Unit

Royalty Owners Under Lease 1:

**CCH Ranch Investments LP**  
By: CCH Ranch Management LLC  
General Partner

**DCT Ranch Investments LP**  
By: DCT Ranch Management LLC  
General Partner

By: Cynthia C. Howard  
Cynthia C. Howard  
President

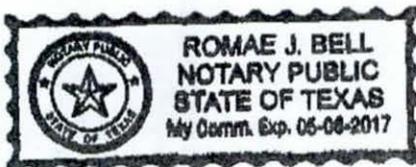
By: Darla C. Taylor  
Darla C. Taylor  
President

**ACKNOWLEDGMENTS**

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was acknowledged before me on 10<sup>th</sup> day of December, 2013, by **MONA D. ABLES**, as Vice President of Land of **COG OPERATING LLC**, a Delaware limited liability company on behalf of said limited liability company.

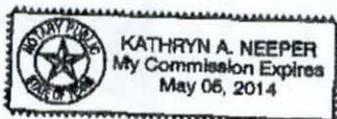


Romae J. Bell  
Notary Public, State of Texas

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was acknowledged before me on 12<sup>th</sup> day of January, 2013, by **D. K. BECKHAM**, as Attorney-in-Fact for Chevron Midcontinent Operations LLC, a Delaware limited liability company, as General Partner of **CHEVRON MIDCONTINENT, L.P.**, a Texas limited partnership, on behalf of said limited partnership..



Kathryn A. Neeper  
Notary Public, State of Texas

My commission expires:

5/5/2014

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was acknowledged before me on \_\_\_ day of \_\_\_\_\_, 2013, by **TERENCE CRAIG BURKES**, as President for TCB Management, LLC, a Texas limited liability company, as General Partner of **TEKAR TECH, L.P.**, a Texas limited partnership, on behalf of said limited partnership.

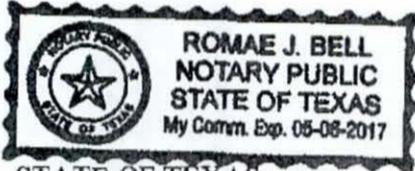
\_\_\_\_\_  
Notary Public, State of Texas

Designation of Pooled Unit  
Currie "E" State 3207 Pooled Unit

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was acknowledged before me on 18<sup>th</sup> day of December, 2013, by **DAMIAN G. BARRETT**, as Manager for Baqash Resources Management LLC, a Texas limited liability company, as General Partner of BAQASH RESOURCES LP, a Texas limited partnership, on behalf of said limited partnership.

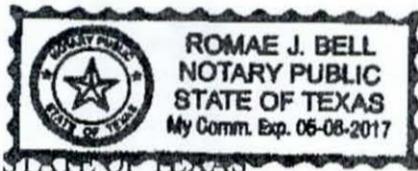


Romae J. Bell  
Notary Public, State of Texas

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was acknowledged before me on 18<sup>th</sup> day of December, 2013, by **LAWRENCE C. GATES**, as Manager of L & K GATES RESOURCES LP, a Texas limited partnership, on behalf of said limited partnership.

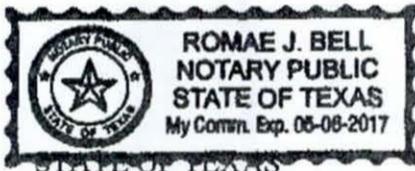


Romae J. Bell  
Notary Public, State of Texas

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was acknowledged before me on 15<sup>th</sup> day of January, <sup>2014</sup>2013, by **KATHRIN A. LEWIS**.



Romae J. Bell  
Notary Public, State of Texas

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was acknowledged before me on 17 day of January, <sup>2014</sup>2013, by **ERIN N. TEMPLE**, as attorney in fact on behalf of **SHARON F. TEMPLE**.



Romae J. Bell  
Notary Public, State of Texas

Designation of Pooled Unit  
Currie "E" State 3207 Pooled Unit

ACKNOWLEDGMENTS

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was personally acknowledged before me on 18th day of December, 2013, by **CYNTHIA C. HOWARD**, President of CCH Ranch Management LLC, General partner of **CCH RANCH INVESTMENTS LP**, a Texas limited partnership, on behalf of said limited partnership.



Judy K. Taylor  
Notary Public, State of Texas

My commission expires:  
8-26-15

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was personally acknowledged before me on 18th day of December, 2013, by **DARLA C. TAYLOR**, President of DCT Ranch Management LLC, General Partner of **DCT RANCH INVESTMENTS LP**, a Texas limited partnership, on behalf of said limited partnership.



Judy K. Taylor  
Notary Public, State of Texas

Designation of Pooled Unit  
Currie "E" State 3207 Pooled Unit

**EXHIBIT "A"**  
**DESIGNATION OF POOLED UNIT**

**COG Operating LLC**  
**Currie "E" State #3207 Pooled Unit**  
**Glasscock County, Texas**

**Description of Pooled Unit**

**Currie "E" State 3207 Unit**

SW/4 of Section 32, Block 32, Township 4 South, T & P Ry. Co. Survey, A-711, containing **159.85** acres, more or less:

**Tract No. 1**

**A tract of land containing 148.95 acres, more or less, being all of SW/4 of Section 32, Block 32, Township 4 South, T & P Ry. Co. Survey, A-79, containing 159.85 acres, more or less, SAVE AND EXCEPT 10.90 acres, more or less, being the right-of way of State Highway 158, described more particularly by metes and bounds in Tract No. 2 below.**

**Tract No. 2**

**A tract of land containing 10.90 acres, more or less, out of SW/4 of Section 32, Block 32, Township 4 South, T&P Ry. Co. Survey, being the right-of-way of State Highway 158, described more particularly by metes and bounds as shown on the plat attached hereto:**

**Leases Committed to Pooled Unit:**

**Lease No. 1**

Lessor: James R. Currie, Individually and as Trustee, joined by his wife, Jimmie R. Currie; Cynthia C. Howard; and Darla C. Taylor.

Lessee: Henry Petroleum LP

Date: December 5, 2005

Recording: Memorandum of Lease recorded Volume 89, Page 652 of Official Public Records of Glasscock County, Texas

Description: Insofar as and only insofar as said lease covers Tract 1 described above.

**Lease No. 2**

Lessor: Commissioner of the General Land Office of the State of Texas  
Lease No. (MF 112153)

Lessee: COG Operating LLC

Date: April 5, 2011

Recording: Volume 166, Page 148 of Official Public Records of Glasscock County,  
Texas

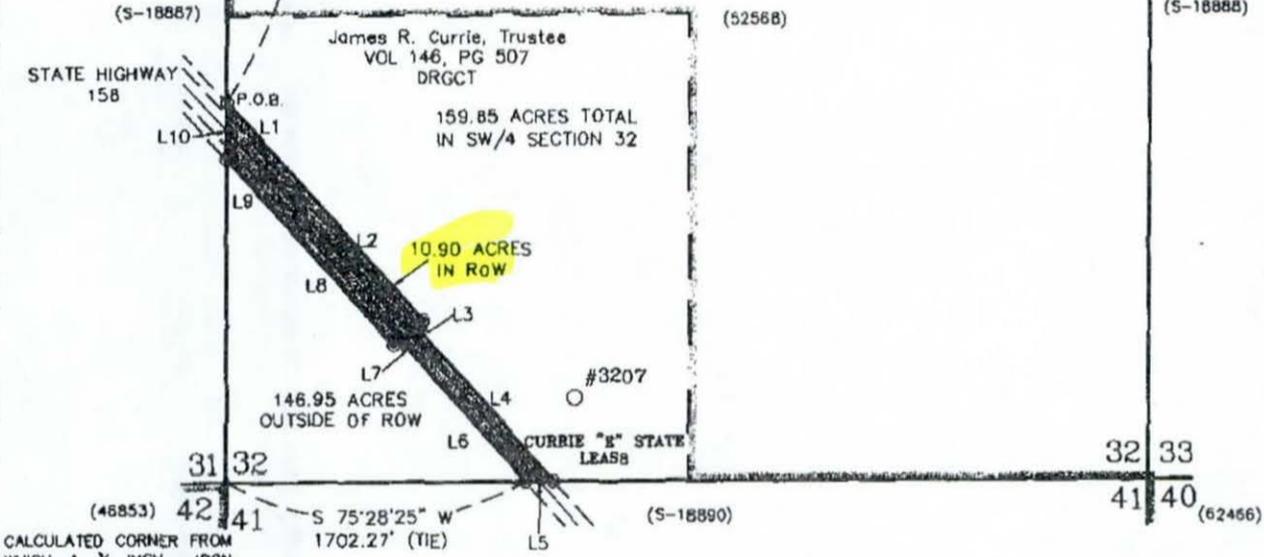
Description: Insofar as and only insofar as said lease covers Tract 2 described above.

End of Exhibit "A" to Currie "E" State #3207 Pooled Unit - Designation of Pooled Unit

BLOCK 32, T-4-S,  
T. & P. RR. CO. SURVEY  
GLASSCOCK COUNTY, TEXAS

(72990) CALCULATED CORNER FROM WHICH OLD STONE MOUND FOUND FOR THE NE COR. SECTION 24, BLOCK 33, T-4-S, T. & P. RR. CO. SURVEY BEARS N 40°56'24" W 11839.97'. (S-18886) 29 28 (59418)  
30 31 32 32 33

LINE	BEARING	DISTANCE
L1	S 58°42'28" E	387.28'
L2	S 55°57'29" E	1277.14'
L3	S 34°02'31" W	49.99'
L4	S 55°57'29" E	1179.54'
L5	S 75°28'25" W	160.03'
L6	N 55°57'29" W	1073.65'
L7	S 34°02'31" W	49.99'
L8	N 55°57'29" W	1275.70'
L9	N 56°42'28" W	146.25'
L10	N 14°09'12" W	325.26'



(48853) CALCULATED CORNER FROM WHICH A 1/4 INCH IRON PIPE FOUND FOR THE NW COR. SECTION 6, BLOCK 32, T-5-S, T. & P. RR. CO. SURVEY BEARS S 08°23'36" W 11311.88'.

SEE SHEET 2 OF 2 FOR A FIELD NOTE DESCRIPTION OF THIS TRACT OF LAND

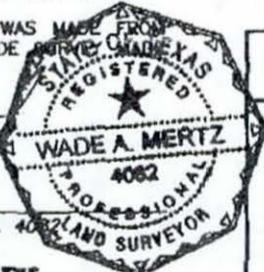
LEGEND

- NOTE:
- Plane Coordinates, Bearings and Distances shown hereon are Lambert Grid and Conform to the "Texas Coordinate System", Texas Central Zone, North American Datum of 1927. Acreages shown hereon are mean surface values.
  - Geodetic Coordinate shown hereon references the North American Datum of 1927, (Clarke Spheroid of 1866).
  - See information filed in the office of this Surveyor which describes the reconstruction of this Tract.
- ⊙ - Denotes Set Spike with metal washer Marked "WEST CO. MIDLAND"
  - - Denotes Calculated Corner
  - - Denotes Producing Well Location
  - (S-27758) - Denotes General Land Office File No.
  - - Denotes Lease Line



I HEREBY CERTIFY THAT THIS PLAT WAS MADE FROM NOTES TAKEN IN THE FIELD IN A BONA FIDE MANNER UNDER MY SUPERVISION.

*Wade Mertz*  
WADE MERTZ TEXAS R.P.L.S. NO. 4082



COG OPERATING, LLC

TRACT SURVEY  
10.90 ACRES IN STATE HIGHWAY 158 ROW  
OUT OF THE SW/4 OF  
SECTION 32, BLOCK 32, T-4-S,  
T. & P. RR. CO. SURVEY  
GLASSCOCK CO., TEXAS

**WEST COMPANY**  
of Midland, Inc.

110 W. LOUISIANA, STE. 110  
MIDLAND TEXAS, 79701-3414  
OFFICE: (432)887-0865 FAX: (432)687-0868  
Web Page: www.team-west.com  
Email: survey@team-west.com

Drawn By: D.E.H.	Date: August 6, 2013
Scale: 1"=1000'	Revised:
Sheet 1 of 2	Field Note Book: COG 1002/3-4
W.O. No: 2013-0879-07	Dwg. No.: 2013-0879-07_SW-4_32.DWG

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LEGAL DESCRIPTION

BEING a 10.90 acre tract of land out of a tract belonging to James R. Currie, Trustee, according to Volume 146, Page 507, Deed Records Glasscock County Texas, located in the southeast quarter (SW/4) of Section 32, Block 32, T-4-S, T. & P. RR. Co. Survey, Glasscock County, Texas and being more particularly described as follows:

BEGINNING at a spike with a metal washer marked "WEST CO. MIDLAND" set in the north right-of-way of State Highway 158, and on the west line of said Section 32, for the most northerly corner of this tract, from which the calculated northwest corner of said Section 32 bears N 14°09'12" W, a distance of 3135.61 feet, from said calculated corner, an old stone mound found for the northeast corner of Section 24, Block 33, T-4-S, T. & P. RR. Co. Survey bears N 40°56'24" W, a distance of 11839.97 feet;

THENCE S 56°42'28" E, with the north right-of-way of said State Highway 158, a distance of 387.28 feet to a point in the north right-of-way of said State Highway 158;

THENCE S 55°57'29" E, with the north right-of-way of said State Highway 158, a distance of 1277.14 feet to a spike with a metal washer marked "WEST CO. MIDLAND" set in the north line of said State Highway 158 for a corner of this tract;

THENCE S 34°02'31" W, with the right-of-way of said State Highway 158, a distance of 49.99 feet to a spike with a metal washer marked "WEST CO. MIDLAND" set in the right-of-way of said State Highway 158 for an interior corner of this tract;

THENCE S 55°57'29" E, with the north right-of-way of said State Highway 158, a distance of 1179.54 feet to a spike with a metal washer marked "WEST CO. MIDLAND" set in the north right-of-way of said State Highway 158 and on the south line of said Section 32, for the most southeasterly corner of this tract;

THENCE S 75°28'25" W, with the south line of said Section 32, a distance of 160.03 feet to a spike with a metal washer marked "WEST CO. MIDLAND" set in the south right-of-way of said State Highway 158 and on the south line of said Section 32 for the most southwesterly corner of this tract, from which the calculated southwest corner of said Section 32 bears S 75°28'25" W, a distance of 1702.27 feet, from said calculated corner, a 3/4 inch iron pipe found for the northwest corner of Section 6, Block 32, T-5-S, T. & P. RR. Co. Survey bears S 08°23'38" W, a distance of 11311.88 feet;

THENCE N 55°57'29" W, with the south right-of-way of said State Highway 158, a distance of 1073.65 feet to a spike with a metal washer marked "WEST CO. MIDLAND" set in the right-of-way of said State Highway 158 for an interior corner of this tract;

THENCE S 34°02'31" W, with the right-of-way of said State Highway 158, a distance of 49.99 feet to a spike with a metal washer marked "WEST CO. MIDLAND" set for a corner of this tract;

THENCE N 55°57'29" W, with the south right-of-way of said State Highway 158, a distance of 1275.70 feet to a point in the south right-of-way of said State Highway 158;

THENCE N 56°42'28" W, with the south right-of-way of said State Highway 158, a distance of 146.25 feet to a spike with a metal washer marked "WEST CO. MIDLAND" set in the south right-of-way of said State Highway 158 and on the west line of said Section 32 for the most northerly southwest corner of this tract;

THENCE N 14°09'12" W, with the west line of said Section 32, a distance of 325.26 feet to the POINT OF BEGINNING and containing 10.90 acres of land.

SEE SHEET 1 OF 2 FOR A DETAILED SKETCH OF THIS TRACT OF LAND

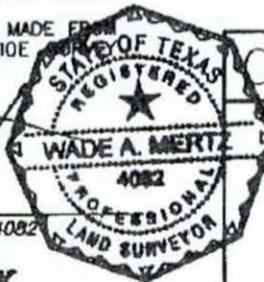
NOTE:

- 1) Plane Coordinates, Bearings and Distances shown hereon are Lambert Grid and Conform to the "Texas Coordinate System", Texas Central Zone, North American Datum of 1927. Acreages shown hereon are mean surface values.
- 2) Geodetic Coordinate shown hereon references the North American Datum of 1927, (Clarke Spheroid of 1866).
- 3) See information filed in the office of this Surveyor which describes the reconstruction of this Tract.



I HEREBY CERTIFY THAT THIS PLAT WAS MADE FROM NOTES TAKEN IN THE FIELD IN A BONA FIDE SURVEY MADE UNDER MY SUPERVISION.

*Wade A. Mertz*  
 WADE MERTZ TEXAS R.P.L.S. NO. 4082



COG OPERATING, LLC

TRACT SURVEY  
 10.90 ACRES IN STATE HIGHWAY 158 ROW  
 OUT OF THE SW/4 OF  
 SECTION 32, BLOCK 32, T-4-S,  
 T. & P. RR. CO. SURVEY  
 GLASSCOCK CO., TEXAS

**WEST COMPANY**  
 of Dallas, Inc.

118 W. LOUISIANA, STE. 110  
 MIDLAND TEXAS, 79701-3414  
 OFFICE: (432)887-0885 FAX: (432)887-0868  
 Web Page: www.team-west.com  
 Email: survey@team-west.com

Drawn By: D.E.H.	Date: August 6, 2013
Scale: 1"=1000'	Revised:
Sheet 2 of 2	Field Note Book: COG 1002/3-4
W.O. No: 2013-0878-07	Dwg. No.: 2013-0879-07_SW-4_32.DWG

FILED  
AT 10:00 O'CLOCK A M  
ON THE 6 DAY OF Feb.  
A.D., 2014  
INS. NO. 140522

STATE OF TEXAS  
COUNTY OF GLASSCOCK

I hereby certify that this instrument was FILED on the date and at the time stamped hereon by me and was duly RECORDED in the Volume and Page of the named RECORDS of Glasscock County, Texas, as stamped hereon by me.



*Rebecca Bada*

County Clerk, Glasscock County, Texas

*Rebecca Bada*  
COUNTY CLERK, GLASSCOCK COUNTY, TEXAS

BY *Adriana Ramirez*  
DEPUTY

OFFICIAL PUBLIC RECORDS

VOL. 241 PAGE 566  
RECORDED Feb. 6, 2014

#6813

RECEIVED  
2/17/14



**Highway Right-of-Way Unit Designation Form**  
Texas General Land Office  
Jerry Patterson, Commissioner  
1700 North Congress Avenue  
Austin, Texas 78701-1495

**OPERATOR INFORMATION**

Contact Name Mr. Joe Dutton # \_\_\_\_\_ Phone ( 432 ) 818-2211  
Name of Pooled Unit Currie E State 3207 ✓  
Operator of Pooled Unit COG Operating LLC ✓ County Glasscock ✓  
Effective Date of Unit Declaration: November 8, 2013 ✓

**HROW LEASE(S) IN UNIT**

HRWO State Lease No.	Lease Date	Term	HROW Royalty	Total Acreage in HROW Lease	HROW Lease Acreage in Unit
MF-112153	✓ 4/5/2011	✓ 3 years	✓ 1/4	✓ 75.32	✓ 10.90

0.01704723 Total Acreage In Pooled Unit 159.85 ✓ Ac.  
State's Royalty Revenue Interest in Unit: 1.704724% Total HRWO Acreage In Unit 10.90 ✓ Ac.  
Total Private Acreage In Unit (Total Acreage - Total HROW Acreage) 148.95 ✓ Ac.

Attach a plat showing the pooled unit outline, unit well(s) location, and HROW lease tracts.

Type of Mineral Pooled:  Oil  Gas  Oil & Gas  
Pooled Interval: All Depths  Top Depth \_\_\_\_\_ Base Depth \_\_\_\_\_  
If pooling a Formation(s) please list Formation Name: All Formations  
RRC Field Name(s): Garden City, S. (Wolfcamp Field)

**UNIT WELL(S)**

API # 42-173-35964 ✓ RRC ID# 166150  
API # \_\_\_\_\_ RRC ID# \_\_\_\_\_  
API # \_\_\_\_\_ RRC ID# \_\_\_\_\_  
API # \_\_\_\_\_ RRC ID# \_\_\_\_\_

22

File No. MF12153  
Unit # 6813, Curric "E"  
State # 3207

Date Filed: 2/17/14

Jerry E. Patterson, Commissioner

By J.M.A.

( KEEP THIS COPY FOR YOUR RECORDS )

MF 112153  
6684



### DIVISION ORDER

To: Plains Marketing L.P.  
P.O. Box 4648  
Houston, TX 77210-4648

Property Name: CURRIE E STATE #4101  
Operator: COG OPERATING LLC  
County and State: GLASSCOCK, TX  
Production: OIL / CONDENSATE ( GAS )

Date: 10/30/2013  
Property Descr: SEE EXHIBIT 'A'  
Effective 7 A.M.: 10/01/2013  
Decimal Interest: 0.00976342 ✓  
Type of Interest: RI  
ROYALTY INTEREST

Owner Number  
**0062639**  
Property Number:  
**01 191926**

Owner Name and Address: COMMISSIONER GENERAL LD OFFICE  
STATE OF TEXAS  
1700 NORTH CONGRESS AVENUE  
AUSTIN, TX 78701

COMMISSIONER GENERAL LD OFFICE  
STATE OF TEXAS  
1700 NORTH CONGRESS AVENUE  
AUSTIN, TX 78701

[Correspondence Address]

[Remittance Address]

The undersigned severally and not jointly certifies the ownership of their decimal interest in production or proceeds as described above payable by Plains Marketing, L.P. (hereinafter called "Payor").  
Payor shall be notified, in writing, of any change in ownership, decimal interest, or payment address. All such changes shall be effective the first day of the month following receipt of such notice.  
Payor is authorized to withhold payment pending resolution of a title dispute or adverse claim asserted regarding the interest in production claimed herein by the undersigned. The undersigned agrees to reimburse Payor any amount attributable to an interest to which the undersigned is not entitled. Unless otherwise required by law, Payor shall not be required to pay interest on payments withheld due to a title dispute or adverse claim.  
Payments of less than \$25.00 may be accrued before disbursement until the total amount equals \$25.00 or more, or until December 31 of each year, whichever occurs first.  
This Division Order does not amend any lease or operating agreement between the undersigned and the lessee or operator or any other contracts for the purchase of oil or gas.  
The undersigned will be paid in accordance with the division of interests set out above. As to oil and/or condensate, the Payor shall pay all parties at the price agreed to by the operator for oil and/or condensate to be sold pursuant to this division order. Payor shall compute quantity and make corrections for gravity and temperature and make deductions for impurities. As to gas, the undersigned will be paid in accordance with the division of interest set forth herein. The Payor will pay all parties for their respective interest in the gas proceeds paid to Payor by the operator for disbursement at the price and upon the terms agreed to by the operator for the gas marketed by the operator. Payor is a disbursement service provider only and does not purchase the gas nor take title to the gas. The operator is responsible for marketing gas produced from the property described in the attached property description. Payor does not assume any obligations of the lessee or operator under any oil and gas lease, gas sales contract or other agreement to which Payor is not a party.

In addition to the terms and conditions of this Division Order, the undersigned and Payor may have certain statutory rights under the laws of the state in which the property is located.

Special Clauses/Requirements: If applicable, see Exhibit 'A'.

Owner Social Security # or Taxpayer ID #:   
Owner Daytime Telephone #: \_\_\_\_\_  
Owner FAX #: \_\_\_\_\_  
Email Address: \_\_\_\_\_

Owner BY: \_\_\_\_\_ Signature of two Witnesses/Attest \_\_\_\_\_  
Signature: OWNER #: 0062639  
TITLE: \_\_\_\_\_

FEDERAL LAW REQUIRES YOU TO FURNISH YOUR SOCIAL SECURITY OR TAXPAYER IDENTIFICATION NUMBER.  
FAILURE TO COMPLY WILL RESULT IN 28% TAX WITHHOLDING AND WILL NOT BE REFUNDABLE BY PAYOR.



( KEEP THIS COPY FOR YOUR RECORDS )

**EXHIBIT 'A'**

**PROPERTY NUMBER: 01 191926**

**OWNER: 0062639**

OWNER	NAME/ADDRESS	SSN/TIN	INTEREST	TYPE	PAY ST	EFFECTIVE	CLAUSES	REQUIREMENTS
0062639	COMMISSIONER GENERAL LD OFFICE STATE OF TEXAS 1700 NORTH CONGRESS AVENUE AUSTIN, TX 78701	[REDACTED]	0.00976342	RI	3U	10/01/2013	1	N/A

**CLAUSES**

- 1 EFFECTIVE WITH OCTOBER 2013 PRODUCTION, PLAINS MARKETING, L.P. WAS DESIGNATED AS OIL PURCHASER FOR THE CURRIE E STATE #4101 LEASE BY THE OPERATOR, COG OPERATING LLC. THIS DIVISION ORDER WAS PREPARED BASED ON INFORMATION PROVIDED BY THE OPERATOR.

LEGAL DESCRIPTION

NE/4 SECTION 41, BLOCK 32, T-4-S, T&P RR CO SURVEY  
GLASSCOCK COUNTY, TEXAS

File No. 112153

DIVISION ORDER

Date Filed: 11/04/13  
Jerry E. Patterson, Commissioner

By 



8

MF112153

BOOK 206 PAGE 276

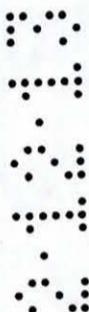
Glass 2 (East Area) Prospect

#123484

CORRECTION PARTIAL ASSIGNMENT OF OIL AND GAS LEASE

STATE OF TEXAS §  
COUNTY OF GLASSCOCK § KNOW ALL MEN BY THESE PRESENTS THAT:

The undersigned, **COG OPERATING LLC**, a Delaware limited liability company, successor by merger to Henry Petroleum LP, whose mailing address is 550 West Texas Avenue Suite 100, Midland, TX 79701, herein called "Assignor", in consideration of the sum of Ten Dollars and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, does hereby **assign, transfer and convey** unto the Assignees listed below the undivided interests opposite each Assignees' name in and to the oil and gas lease described on Exhibit "A" attached hereto together with a like interest in and to all personal property and equipment used or obtained in connection with said lease, and all rights incident thereto, insofar and only insofar as said lease covers the lands described on said Exhibit "A":



<b>Tekar Tech, LP</b> P. O. Box 81131 Midland, Texas 79708	<b>0.25000000%</b>
<b>Baqash Resources LP</b> 4816 Rangewood Court Midland, Texas 79707	<b>0.10000000%</b>
<b>Kathrin A. Lewis</b> 1003 Stanolind Avenue Midland, Texas 79705	<b>0.10000000%</b>
<b>Sharon F. Temple</b> 3809 Crestline Avenue Midland, TX 79707	<b>0.25000000%</b>
<b>L &amp; K Gates Resources LP</b> P.O. Box 81119 Midland, Texas 79708	<b>0.12500000%</b>
Total	<b><u>0.82500000%</u></b>

TO HAVE AND TO HOLD the same unto Assignees, their respective heirs, successors and assigns forever, subject to the terms and provisions contained in said lease, and all contracts and assignments relating thereto, all of which Assignees hereby assume insofar as the same are applicable to the interest hereby assigned and further subject to the following terms and conditions:

1. This Assignment of Oil and Gas Lease (this "Assignment") is made and accepted without representation or warranty of title, express or implied, except by, through and under Assignor.
2. All of the terms, conditions and provisions hereof shall inure to and be binding upon the parties hereto, their respective heirs, executors, administrators, assigns and successors.
3. Concerning the lands described therein, this Assignment is subject to the terms and conditions of that certain unrecorded Joint Operating Agreement dated effective February 7, 2005.



True and correct copy  
of original filed in the  
Glasscock County  
Clerks Office

CORRECTION PARTIAL ASSIGNMENT OF OIL AND GAS LEASE  
COG Operating LLC to Employees  
Glass 2 (East Area) Prospect  
Glasscock County, TX

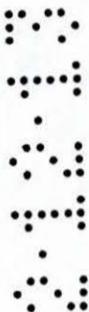
This Correction Partial Assignment of Oil and Gas Lease is made in replacement of that Partial Assignment of Oil and Gas Lease from COG Operating LLC, as Assignor, to Tekar Tech LP, et al., as Assignees, recorded in Volume 167, Page 606, Official Public Records of Glasscock County, Texas.

IN WITNESS WHEREOF, this Assignment is effective as of the date of the Oil and Gas Lease shown on the attached Exhibit "A".

ASSIGNOR:

COG OPERATING LLC

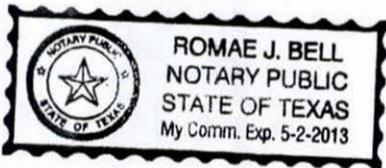
By: Mona D. Ables  
Mona D. Ables  
Vice President of Land *MD*



STATE OF TEXAS §

COUNTY OF MIDLAND §

This instrument was acknowledged before me this 2<sup>nd</sup> day of November, 2012, by **MONA D. ABLES, Vice President of Land of COG OPERATING LLC**, a Delaware limited liability company, on behalf of said limited liability company.



Romae J. Bell  
Notary Public in and for the State of Texas



True and correct copy  
of original filed in the  
Glasscock County  
Clerks Office

CORRECTION PARTIAL ASSIGNMENT OF OIL AND GAS LEASE  
COG Operating LLC to Employees  
Glass 2 (East Area) Prospect  
Glasscock County, Texas

EXHIBIT "A"

ATTACHED TO AND MADE A PART OF THAT CERTAIN CORRECTION PARTIAL  
ASSIGNMENT OF OIL AND GAS LEASE BETWEEN COG OPERATING LLC, AS  
ASSIGNOR, AND TEKAR TECH LP, ET AL., AS ASSIGNEES.

OIL AND GAS LEASE:

DATE: April 5, 2011  
LESSOR: Commissioner of the General Land Office of the State of Texas  
(MF 112153)  
LESSEE: COG Operating LLC  
DESCRIPTION: All that Part of State Highway #158 Right-of-Way, Insofar and  
Only Insofar as said lease covers lands in Sections 30, 31, 32 and  
41, Block 32, T-4-S, T&P RR. Co. Survey,  
Glasscock County, Texas  
RECORDED: Volume 166, page 148 of the Official Public Records of  
Glasscock County, Texas



FILED  
AT 10:20 O'CLOCK A M  
ON THE 17 DAY OF December  
A.D., 2012  
INS. NO. 123484

STATE OF TEXAS  
COUNTY OF GLASSCOCK  
I hereby certify that this instrument was FILED on the  
date and at the time stamped hereon by me and was duly  
RECORDED in the Volume and Page of the named  
RECORDS of Glasscock County, Texas, as stamped  
hereon by me.



Rebecca Batla  
County Clerk, Glasscock County, Texas

Rebecca Batla  
COUNTY CLERK, GLASSCOCK COUNTY, TEXAS

OFFICIAL PUBLIC RECORDS

VOL. 206 PAGE 276  
RECORDED December 17, 2012

BY Suzie Hillis  
DEPUTY

End of Exhibit "A" Correction Partial Assignment of Oil and Gas Lease

y:\land-docs\worlddocs\romae\assignments - cog\correction assignment to employee group glass 2 east - currie state #2508.doc



True and correct copy  
of original filed in the  
Glasscock County  
Clerks Office

Page 3 of 3

CERTIFIED TRUE AND CORRECT COPY CERTIFICATE  
STATE OF TEXAS  
COUNTY OF GLASSCOCK

The above and foregoing is a full, true and correct photographic copy of the  
original record now in my lawful custody and possession, as the same is  
filed/recorded in the Official Public Records of my office, found in  
VOL. 206 PAGE 276



I hereby certified on Dec 17, 2012  
REBECCA BATLA, COUNTY & DISTRICT CLERK  
GLASSCOCK COUNTY, TEXAS

BY Suzie Hillis DEPUTY



February 4, 2013

Ms. Beverly Boyd, Energy Resources Mineral Leasing  
Commissioner of the General Land Office  
1700 North Congress Avenue  
Austin, TX 78701-1495

RE: Glass 2 (East) Prospect  
Correction Partial Assignment of Oil and Gas Lease  
State of Texas HROW Lease # MF 112153  
Currie "E" State #3102 Well  
Glasscock County, Texas

Dear Ms. Boyd:

As per our telephone conversation, enclosed is a Certified Correction Partial Assignment of Oil and Gas Lease recorded in Volume 206, Page 276, Official Public Records of Glasscock County, Texas in reference to the captioned lease.

Should you have any questions or need additional information, please feel free to contact me at 432.818.2203.

Very truly yours,

COG OPERATING LLC

Romae Bell  
Land Coordinator

/rb  
Enclosure

30

File No. MF112153

ID 7998 correction of Partial

Assignment made to database

Date Filed: 2.12.13

Jerry E. Patterson, Commissioner

By: JC

2013

# OIL AND GAS DIVISION ORDER

**YOUR FILE COPY**

Property Number:	424212.4101.1	Date Prepared:	10/30/2013
Property Name:	CURRIE "E" STATE #4101 <b>MF 112153</b>	Effective Date:	Date of First Sales
Operator:	COG OPERATING LLC		
County/State:	Glasscock, TX		
Property Description:	NW/4 OF NE/4 SEC 41, BLK 32, T-4-S T&P RR SVY		
Production:	Oil ___ Gas <input checked="" type="checkbox"/> Other ___		

<b>Owner Name:</b>	TEXAS GENERAL LAND OFFICE	<b>Owner Number:</b>	001523
<b>Address:</b>	1700 N. CONGRESS AVENUE STE 935	<b>Type of Interest:</b>	RI
	AUSTIN, TX 78701-1495		
<b>Phone #:</b>	512-463-5001	<b>Interest:</b>	0.00976342

The undersigned certifies the ownership of their decimal in production or proceeds as described above payable by (Payor).  
 COG OPERATING LLC

Payor shall be notified, in writing, of any change in ownership, decimal interest, or payment address. All such changes shall be effective the first day of the month following receipt of such notice.

Payor is authorized to withhold payment pending resolution of a title dispute or adverse claim asserted regarding the interest in production claimed herein by the undersigned.

The undersigned agrees to indemnify and reimburse Payor any amount attributable to an interest to which the undersigned is not entitled.

Payor may accrue proceeds until the total amount equals \$ 25.00, or pay annually, whichever occurs first, or as required by applicable state statutes.

This Division Order does not amend any lease or operating agreement between the undersigned and the lessee or operator or any other contracts for the purchase of oil or gas.

In addition to the terms and conditions of this Division Order, the undersigned and Payor may have certain statutory rights under the laws of the state in which the property is located.

	Witness:
Owner(s) Signature: _____	_____
Owner(s) Printed Name & Title _____	_____
Owner(s) Tax ID/SS No.: _____	_____
Owner(s) Daytime Telephone No: _____	_____
Owner(s) FAX Telephone No.: _____	_____

**IMPORTANT: TO AVOID DELAY IN PAYMENT, YOUR SOCIAL SECURITY NUMBER OR TAX IDENTIFICATION NUMBER MUST BE SHOWN ABOVE. FEDERAL LAW REQUIRES YOU TO FURNISH YOUR SOCIAL SECURITY OR TAXPAYER IDENTIFICATION NUMBER. FAILURE TO COMPLY WILL RESULT IN TAX WITHHOLDING IN ACCORDANCE WITH FEDERAL LAW, WHICH WILL NOT BE REFUNDABLE BY PAYOR.**

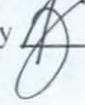
KP

File No. MF112153

DIVISION ORDER

Date Filed: 10-30-13

Jerry E. Patterson, Commissioner

By  \_\_\_\_\_

**From:** Karin Parker <kparker@concho.com>  
**To:** "Beverly.Boyd@GLO.TEXAS.GOV" <Beverly.Boyd@GLO.TEXAS.GOV>  
**CC:** Marylyn Gibbs <MGibbs@concho.com>, Romae Bell <rbell@concho.com>  
**Date:** 7/11/2013 9:54 AM  
**Subject:** Currie E State #3108 - MF 112153, Glasscock County, TX  
**Attachments:** GLO Division Orders - Currie E State #3108.pdf; STATE OF TEXAS LEASE MF112153.pdf; DESIGNATION OF POOLED UNIT - CURRIE E STATE #3108 -unsigned.pdf

General Land Office

Beverly Boyd

PO Box 128973

Austin, TX 78711-2873

RE: Currie E State #3108 - MF 112153, Glasscock County, TX

Beverly:

Please see scanned Division Orders and copy of the State lease MF112153 on the Currie E State #3108 - MF 112153. I have also enclosed a unsigned copy of the Designation of Pooled Unit for the Currie E State #3108. I will forward the recorded Designation of Pooled Unit as soon as I receive it.

Please let me know if there is anything else I need to send.

Respectfully,  
Karin Parker  
Sr. Division Order Analyst  
COG OPERATING LLC  
One Concho Center  
600 W. Illinois Avenue  
Midland, Texas 79701  
Ph 432.686.3086  
Fx 432.687-8024  
Email: kparker@concho.com<mailto:tcompton@conchoresources.com>  
[Description: concho\_logo.jpg]

CONFIDENTIALITY NOTICE: The information in this email may be confidential and/or privileged. If you are not the intended recipient or an authorized representative of the intended recipient, you are hereby notified that any review, dissemination or copying of this email and its attachments, if any, or the information contained herein, is prohibited. If you have received this email in error, please immediately notify the sender by return email and delete this email from your system. Thank you.

# OIL AND GAS DIVISION ORDER

**SIGN & RETURN THIS COPY**

Property Number: 423967.3108.1  
 Property Name: CURRIE "E" STATE #3108 MF 112153

Date Prepared: 7/2/2013  
 Effective Date: Date of First Sales or Date of last Settlement

Operator: COG OPERATING LLC  
 County/State: Glasscock, TX  
 Property Description: NW/4 OF SE/4 SEC 31, BLK 32, T-4-S T&P RR SVY  
 Production: Oil \_\_\_ Gas X Other \_\_\_

Owner Name:	GENERAL LAND OFFICE	Owner Number:	001523
Address:	1700 N. CONGRESS AVENUE STE 935	Type of Interest:	RI
	AUSTIN, TX 78701-1495		
Phone #:	512-463-5001	Interest:	0.00644610

The undersigned certifies the ownership of their decimal in production or proceeds as described above payable by (Payor).  
 COG OPERATING LLC

Payor shall be notified, in writing, of any change in ownership, decimal interest, or payment address. All such changes shall be effective the first day of the month following receipt of such notice.

Payor is authorized to withhold payment pending resolution of a title dispute or adverse claim asserted regarding the interest in production claimed herein by the undersigned.

The undersigned agrees to indemnify and reimburse Payor any amount attributable to an interest to which the undersigned is not entitled.

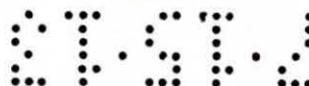
Payor may accrue proceeds until the total amount equals \$ 25.00, or pay annually, whichever occurs first, or as required by applicable state statutes.

This Division Order does not amend any lease or operating agreement between the undersigned and the lessee or operator or any other contracts for the purchase of oil or gas.

In addition to the terms and conditions of this Division Order, the undersigned and Payor may have certain statutory rights under the laws of the state in which the property is located.

	Witness:
Owner(s) Signature: _____	_____
Owner(s) Printed Name & Title _____	_____
Owner(s) Tax ID/SS No.: _____	
Owner(s) Daytime Telephone No: _____	
Owner(s) FAX Telephone No.: _____	

**IMPORTANT: TO AVOID DELAY IN PAYMENT, YOUR SOCIAL SECURITY NUMBER OR TAX IDENTIFICATION NUMBER MUST BE SHOWN ABOVE. FEDERAL LAW REQUIRES YOU TO FURNISH YOUR SOCIAL SECURITY OR TAXPAYER IDENTIFICATION NUMBER. FAILURE TO COMPLY WILL RESULT IN TAX WITHHOLDING IN ACCORDANCE WITH FEDERAL LAW, WHICH WILL NOT BE REFUNDABLE BY PAYOR.**



KP

## DESIGNATION OF POOLED UNIT

COG Operating LLC  
Currie "E" State #3108 Pooled Unit  
Glasscock County, Texas

This Designation of Pooled Unit is made and entered into effective as of February 24, 2013, by and between the undersigned owners of the oil and gas leases described in Exhibit "A" hereof embracing lands in Glasscock County, Texas and by and between the undersigned owners of royalty in and under the lands described in Exhibit "A" hereof.

### WITNESSETH:

1. Each of said oil and gas leases embraces a portion of the lands within the pooled unit and collectively embraces the entire pooled unit.
2. The owners of said oil and gas leases desire to pool the oil and gas leases described in Exhibit "A" hereof (INSOFAR, but only insofar as said oil and gas leases cover and affect lands lying within the unit area).
3. The owners of the royalty in and under the lands described in Exhibit "A" hereof hereby consent to this Designation of Pooled Unit (INSOFAR, but only insofar as said oil and gas leases cover and affect lands lying within the unit area).
4. The unit area shall consist of **160.95** acres, more or less, in Glasscock County, Texas, as described and referred to in Exhibit "A" hereto as to all depths and formations.
5. The owners of said oil and gas leases commit all of their interest and all interest over which they hold pooling privilege or power by virtue of said oil and gas leases, amendment and/or ratifications thereof, other instruments or by operation of law and which are within the above described unit area to the extent these presents pool said oil and gas leases, the leasehold rights, and royalty interest therein, insofar as said leases, rights and interest cover and affect the lands described in Exhibit "A" for the drilling and production of oil, gas, condensate, casinghead gas and other hydrocarbons hereinafter at times referred to as "pooled mineral."
  - (a) The unit shall be operated as an entirety for the exploration, development, and production of the pooled mineral, rather than as separate tracts.
  - (b) All drilling operations, reworking or other operations with respect to the pooled mineral on lands within the unit shall be considered as though the same were on each separate tract in the unit, regardless of the actual location of the well or wells thereon, for all purposes under the terms of the respective leases or other contracts thereon and this agreement.
  - (c) Production of the pooled mineral from the unit allocated to each separate tract, respectively, as hereinafter provided, shall be deemed to have been produced from each separate tract in the unit, regardless of the actual location of the well or wells thereon, for all purposes under the terms of the respective leases or other contracts thereon and this agreement.
  - (d) All rights to the production of the pooled mineral from the unit, including royalties and other payments, shall be determined and governed by the lease or other contract pertaining to each separate tract, respectively, based upon the production so allocated to such tract only, and in lieu of the actual production of the pooled mineral therefrom.
6. For the purposes of computing the royalty to which each Lessor or royalty owner shall be entitled on production of oil or gas and condensate there shall be allocated to each tract committed to the above referred unit, that pro rata portion from the pooled mineral produced from the pooled unit which the number of surface acres contained in each such tract bears to the total number of surface acres included in the pooled unit.
7. Notwithstanding anything contained elsewhere in this Designation of Pooled Unit, it

Designation of Pooled Unit  
Currie "E" State 3108 Pooled Unit

termination provisions or the separate lease provisions contained in Lease No. 1 described on Exhibit "A" attached hereto ("Lease 1"); or (ii) the Lessee's implied covenant to reasonably develop the lands covered by Lease 1, if any. It is further expressly understood and agreed that upon partial termination of Lease 1 pursuant to its terms as to any portion of Tract No. 1 described on Exhibit "A" attached hereto, neither the terminated portion of Lease 1 nor that portion of the mineral interest in said Tract No. 1 that was subject to Lease 1 prior to such partial termination shall remain subject to the terms of this Designation of Pooled Unit. Provided, notwithstanding (i) and (ii) above or other language of this paragraph, a unit well shall be deemed a well on Lease No. 1 for purposes of: (a) extending the continuous development period of Lease No. 1, if and to the extent, but only if and to the extent, it would do so if drilled on Lease No. 1 in the absence of pooling and (b) determining compliance with Lease No. 1's implied duty of reasonable development, if any.

The declaration may be executed in counterpart, none of which needs to be executed by all parties, or may be ratified or consented to by separate instruments and shall be binding upon both parties who have executed such a counterpart, ratification or consent.

IN WITNESS WHEREOF, the parties hereto have executed this agreement upon the respective dates of their acknowledgments.

Lessee under Leases 1 & 2:

**COG Operating LLC**

By: \_\_\_\_\_  
J. Steve Guthrie  
Vice President - Texas

**Chevron Midcontinent, L.P.**

By: Chevron Midcontinent Operations LLC,  
General Partner

By: \_\_\_\_\_  
D. K. Beckham  
Attorney-in-Fact

**Baqash Resources LP**

By: Baqash Resources Management LLC.  
General Partner

**Tekar Tech, L.P.**

By: TCB Management, LLC.  
General Partner

\_\_\_\_\_  
Damian G. Barrett, Manager

\_\_\_\_\_  
Terence Craig Burkes, President

**L & K Gates Resources LP**

By: \_\_\_\_\_  
Lawrence C. Gates, Manager

\_\_\_\_\_  
Kathrin A. Lewis

\_\_\_\_\_  
Sharon F. Temple

Designation of Pooled Unit  
Currie "E" State 3108 Pooled Unit

Royalty Owners Under Lease 1:

CCH Ranch Investments LP  
By: CCH Ranch Management LLC  
General Partner

DCT Ranch Investments LP  
By: DCT Ranch Management LLC  
General Partner

By: \_\_\_\_\_  
Cynthia C. Howard  
President

By: \_\_\_\_\_  
Darla C. Taylor  
President

ACKNOWLEDGMENTS

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was acknowledged before me on \_\_\_\_ day of \_\_\_\_\_, 2013,  
by **J. Steve Guthrie**, as Vice President-Texas of **COG OPERATING LLC**, a Delaware limited  
liability company on behalf of said limited liability company.

\_\_\_\_\_  
Notary Public, State of Texas

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was acknowledged before me on \_\_\_\_ day of \_\_\_\_\_, 2013,  
by **D. K. Beckham**, as Attorney-in-Fact for Chevron Midcontinent Operations LLC, a Delaware  
limited liability company, as General Partner of **CHEVRON MIDCONTINENT, L.P.**, a Texas  
limited partnership, on behalf of said limited partnership..

\_\_\_\_\_  
Notary Public, State of Texas

My commission expires:  
\_\_\_\_\_

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was acknowledged before me on \_\_\_\_ day of \_\_\_\_\_, 2013,  
by **TERENCE CRAIG BURKES**, as President for TCB Management, LLC, a Texas limited  
liability company, as General Partner of **TEKAR TECH, L.P.**, a Texas limited partnership, on  
behalf of said limited partnership.

\_\_\_\_\_  
Notary Public, State of Texas

Designation of Pooled Unit  
Currie "E" State 3108 Pooled Unit

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was acknowledged before me on \_\_\_\_ day of \_\_\_\_\_, 2013,  
by **DAMIAN G. BARRETT**, as Manager for Baqash Resources Management LLC, a Texas  
limited liability company, as General Partner of BAQASH RESOURCES LP, a Texas limited  
partnership, on behalf of said limited partnership.

\_\_\_\_\_  
Notary Public, State of Texas

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was acknowledged before me on \_\_\_\_ day of \_\_\_\_\_, 2013,  
by **LAWRENCE C. GATES**, as Manager of L & K GATES RESOURCES LP, a Texas  
limited partnership, on behalf of said limited partnership.

\_\_\_\_\_  
Notary Public, State of Texas

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was acknowledged before me on \_\_\_\_ day of \_\_\_\_\_, 2013,  
by **KATHRIN A. LEWIS**.

\_\_\_\_\_  
Notary Public, State of Texas

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was personally acknowledged before me on \_\_\_\_ day of \_\_\_\_\_,  
2013 by **SHARON F. TEMPLE**.

\_\_\_\_\_  
Notary Public, State of Texas

My commission expires:  
\_\_\_\_\_

Designation of Pooled Unit  
Currie "E" State 3108 Pooled Unit

ACKNOWLEDGMENTS

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was personally acknowledged before me on \_\_\_\_ day of \_\_\_\_\_, 2013, by **Cynthia C. Howard**, President of CCH Ranch Management LLC, General partner of **CCH RANCH INVESTMENTS LP**, a Texas limited partnership, on behalf of said limited partnership.

\_\_\_\_\_  
Notary Public, State of Texas

My commission expires:  
\_\_\_\_\_

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was personally acknowledged before me on \_\_\_\_ day of \_\_\_\_\_, 2013, by **Darla C. Taylor**, President of DCT Ranch Management LLC, General Partner of **DCT RANCH INVESTMENTS LP**, a Texas limited partnership, on behalf of said limited partnership.

\_\_\_\_\_  
Notary Public, State of Texas

My commission expires:  
\_\_\_\_\_

Designation of Pooled Unit  
Currie "E" State 3108 Pooled Unit

**EXHIBIT "A"**  
**DESIGNATION OF POOLED UNIT**

**COG Operating LLC**  
**Currie "E" State #3108 Pooled Unit**  
**Glasscock County, Texas**

Description of Pooled Unit

**Currie "E" State 3108 Unit**

SE/4 of Section 31, Block 32, Township 4 South, T & P Ry. Co. Survey, A-79, containing 160.95 acres, more or less:

Tract No. 1

A tract of land containing 156.8 acres, more or less, being all of SE/4 of Section 31, Block 32, Township 4 South, T & P Ry. Co. Survey, A-79, containing 160.95 acres, more or less, SAVE AND EXCEPT 4.15 acres, more or less, being the right-of way of State Highway 158, described more particularly by metes and bounds in Tract No. 2 below.

Tract No. 2

A tract of land containing 4.15 acres, more or less, out of SE/4 of Section 31, Block 32, Township 4 South, T&P Ry. Co. Survey, being the right-of-way of State Highway 158, described more particularly by metes and bounds as shown on the plat attached hereto:

Leases Committed to Pooled Unit:

Lease No. 1

Lessor: James R. Currie, Individually and as Trustee, joined by his wife, Jimmie R. Currie; Cynthia C. Howard; and Darla C. Taylor.

Lessee: Henry Petroleum LP

Date: December 5, 2005

Recording: Memorandum of Lease recorded Volume 89, Page 652 of Official Public Records of Glasscock County, Texas

Description: Insofar as and only insofar as said lease covers Tract 1 described above.

Lease No. 2

Lessor: Commissioner of the General Land Office of the State of Texas  
Texas General Land Office Lease No. (MF 112153)

Lessee: COG Operating LLC

Date: April 5, 2011

Recording: Volume 166, Page 148 of Official Public Records of Glasscock County, Texas

Description: Insofar as and only insofar as said lease covers Tract 2 described above.

File No. MF 112153  
DIVISION order

28

Date Filed: 7-15-13

Jerry E. Patterson, Commissioner

By JK

wo Pooling

Megr MF 112153

1200 feet  
9way

### RAILROAD COMMISSION OF TEXAS

Oil and Gas Division

Tracking No.: 81878  
Status: Approved

This facsimile W-2 was generated electronically from data submitted to the RRC.

API No. 42- 173-35662

7 RRC District No.  
08

8 RRC Lease No.  
41832

9 Well No  
4104

## Oil Well Potential Test, Completion or Recompletion Report, and Log

1. FIELD NAME (as per RRC Records or Wildcat) GARDEN CITY, S. (WOLFCAMP)		2. LEASE NAME CURRIE "E" STATE		10. County of well site GLASSCOCK	
3. OPERATOR'S NAME (Exactly as shown on Form P-5, Organization Report) COG OPERATING LLC		RRC Operator No. 166150		11. Purpose of filing Initial Potential <input checked="" type="checkbox"/> Retest <input type="checkbox"/> Reclass <input type="checkbox"/> Well record only (Explain in remarks) <input type="checkbox"/>	
4. ADDRESS ONE CONCHO CENTER 600 W ILLINOIS AVE MIDLAND, TX 79701-0000				5. If Operator has changed within last 60 days, name former operator	
6a. Location (Section, Block, and Survey) 41, 32 T4S, T&P RR CO, A-82		6b. Distance and direction to nearest town in this county. GARDEN CITY		12. If workover or reclass, give former field (with reservoir) & Gas ID or oil lease no. FIELD & RESERVOIR	
12. If workover or reclass, give former field (with reservoir) & Gas ID or oil lease no. FIELD & RESERVOIR N/A		GAS ID or OIL LEASE #	Oil-U Gas-G	Well #	
13. Type of electric or other log run Neutron logs			14. Completion or recompletion date 06/04/2013		

### SECTION I- POTENTIAL TEST DATA IMPORTANT: Test should be for 24 hours unless otherwise specified infield rules.

15. Date of test 08/04/2013	16. No. of hours tested 24	17. Production method (Flowing, Gas Lift, Jetting, Pumping- Size & Type of pump) Pumping			18. Choke size
19. Production during Test Period	Oil - BBLS 155.0	Gas - MCF 92	Water - BBLS 164	Gas - Oil Ratio 593	Flowing Tubing Pressure PSI
20. Calculated 24-Hour Rate	Oil - BBLS 155.0	Gas - MCF 92	Water - BBLS 164	Oil Gravity-API-60° 42.9	Casing Pressure PSI
21. Was swab used during this test? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		22. Oil produced prior to test (New & Reworked wells) 3763.0		23. Injection Gas-Oil Ratio	
REMARKS: N/A					

INSTRUCTIONS: File an original and one copy of the completed Form W-2 in the appropriate RRC District Office within 30 days after completing a well and within 10 days after a potential test. If an operator does not properly report the results of a potential test within the 10-day period, the effective date of the allowable assigned to the well will not extend back more than 10 days before the W-2 was received in the District Office. (Statewide Rules 16 and 51) To report a completion or recompletion, fill in both sides of this form. To report a retest, fill in only the front side.

#### WELL TESTERS CERTIFICATION

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I conducted or supervised this test by observation of (a) meter readings or (b) the top and bottom gauges of each tank into which production was run during the test. I further certify that the potential test data shown above is true, correct, and complete, to the best of my knowledge.

Signature: Well Tester

Name of Company

RRC Representative

#### OPERATOR'S CERTIFICATION

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct and complete, to the best of my knowledge.

COG OPERATING LLC

Type or printed name of operator's representative

(432) 818-2249 08/06/2013

Telephone: Area Code Number Month Day Year

Regulatory Analyst

Title of Person

Vickie Gotcher

Signature

SECTION III		DATA ON WELL COMPLETION AND LOG (Not Required on Retest)					
24. Type of Completion New Well <input checked="" type="checkbox"/> Deepening <input type="checkbox"/> Plug Back <input type="checkbox"/> Other <input type="checkbox"/>				25. Permit to Drill, Plug Back or Deepen DATE: 03/15/2013 PERMIT NO: 758443 Rule 37 Exception CASE NO: 0281391		Water Injection Permit PERMIT NO	
26. Notice of Intention to Drill this well was filed in Name of <b>COG OPERATING LLC</b>				Salt Water Disposal Permit PERMIT NO		Other PERMIT NO	
27. Number of producing wells on this lease in this field (reservoir) including this well 4		28. Total number of acres in this lease 1276.0		29. Date Plug Back, Deepening, Workover or Drilling Operations Commenced: 04/18/2013 Completed: 04/30/2013		30. Distance to nearest well, Same Lease & Reservoir 5795.0	
31. Location of well, relative to nearest lease boundaries 2243.0 Feet From South West Line of the CURRIE 'E' STATE 273.0 Feet from Lease				32. Elevation (DF, RKB, RT, GR, ETC.) 2507 GR			
33. Was directional survey made other than inclination (Form W-12)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				34. Top of Pay 6820		35. Total Depth 9318	
36. P. B. Depth 9270		37. Surface Casing Determined by Field Rules <input type="checkbox"/>		38. Recommendation of T.D.W.R. Railroad Commission (Special) <input checked="" type="checkbox"/>		39. Dt. of Letter 04/26/2012 04/08/2013	
38. Is well multiple completion? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No							
39. If multiple completion, list all reservoir names (completions in this well) and Oil Lease or Gas ID No. FIELD & RESERVOIR N/A				GAS ID or OIL LEASE #		Oil-G Gas-G	
40. Intervals Drilled by: Rotary Tools <input checked="" type="checkbox"/> Cable Tools		41. Name of Drilling Contractor SAVANNA				42. Is Cementing Affidavit Attached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
43. CASING RECORD (Report All Strings Set in Well)							
CASING SIZE	WT #/FT.	DEPTH SET	MULTISTAGE TOOL DEPTH	TYPE & AMOUNT CEMENT (sacks)	HOLE SIZE	TOP OF CEMENT	SLURRY VOL cu. ft.
8 5/8	32.0	2188		CL C 1250	11	502	2103.0
8 5/8	32.0	2188	502	CL C 350	11	0	473.0
5 1/2	17.0	9318		CL C / CL H 910	7 7/8	3366	139.0
44. LINER RECORD							
Size	Top	Bottom	Sacks Cement	Screen			
N/A							
45. TUBING RECORD				46. Producing Interval (this completion) Indicate depth of perforation or open hole			
Size	Depth Set	Packer Set	From	To	From	To	
2 3/8	6889		6820	9170			
47. ACID, SHOT, FRACTURE, CEMENT SQUEEZE ETC.							
Depth Interval		Amount and Kind of Material Used					
6820.0	9170.0	429 BBLS 15% HCL, 31,593 BBLS WATER, 1,330,000# SAND					
48. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)							
Formations	Depth	Formations	Depth				
WOLFCAMP	6225.0						
STRAWN	7025.0						
ATOKA	9090.0						
REMARKS: N/A							

Cement: Fill in shaded areas.  
Operator: Fill in other items.

RAILROAD COMMISSION OF TEXAS  
Oil and Gas Division

Form W-15  
Cementing Report  
Rev. 4/1/83  
483-045

1. Operator's Name (As shown on Form P-5, Organization Report) <b>COG Operating LLC</b>	2. RRC Operator No. 1106150	3. RRC District No. 08	4. County of Well Site <b>Glasscock</b>
5. Field Name (Wildcat or exactly as shown on RRC Records) GARDEN CITY, S. (WOLF CAMP)		6. API No. 42-173-35002	7. Drilling Permit No. 758443
8. Lease Name <b>Currie "E" State</b>	9. Rule 37 Case No.	10. Oil Lease/Gas ID No. 41832	11. Well No. <b>4104</b>

CASING CEMENTING DATA:		SURFACE CASING Shoe	SURFACE CASING Tool	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date		04-19-2013	04-19-2013				
13. • Drilled Hole Size		11"	11"				
• Est. % wash or hole enlargement							
14. Size of casing (in. O.D.)		8 5/8"	8 5/8"				
15. Top of liner (ft.)							
16. Setting depth (ft.)		2188	502				
17. Number of centralizers used		18	18				
18. Hrs. Waiting on cement before drill-out		12	12				
1 <sup>st</sup> Slurry	19. API cement used: No. of sacks ▶	1050	350				
	Class ▶	C	C				
	Additives ▶	Remarks 1	Remarks 3				
2 <sup>nd</sup> Slurry	No. of sacks ▶	200					
	Class ▶	C					
	Additives ▶	Remarks 2					
3 <sup>rd</sup> Slurry	No. of sacks ▶						
	Class ▶						
	Additives ▶						
1 <sup>st</sup>	20. Slurry pumped: Volume (cu. ft.) ▶	1837	473				
	Height (ft.) ▶	7226	1861				
2 <sup>nd</sup>	Volume (cu. ft.) ▶	266					
	Height (ft.) ▶	1046					
3 <sup>rd</sup>	Volume (cu. ft.) ▶						
	Height (ft.) ▶						
Total	Volume (cu. ft.) ▶	2103	473				
	Height (ft.) ▶	8272	1861				
21. Was cement circulated to ground surface (or bottom of cellar) outside casing?		No	Yes				

Remarks 1: 2% bwoc A-7P + 0.125 #/sk Cellophane Flake + 4% bwoc Bentonite II  
Remarks 2: 2% bwoc A-7P  
Remarks 3: 2% bwoc A-7P + .125% bwoc Cellophane Flake  
\*Circulated 104 sacks of cement to surface

**Cementer: Fill in shaded areas.**  
Operator: Fill in other items.

**RAILROAD COMMISSION OF TEXAS**  
**Oil and Gas Division**

Form W-15  
Cementing Report  
Rev. 4/1/83  
483-045

1. Operator's Name (As shown on Form P-5, Organization Report) <b>COG OPERATING LLC</b>	2. RRC Operator No. <b>166150</b>	3. RRC District No. <b>7C</b>	4. County of Well Site <b>Glasscock</b>
5. Field Name (Wildcat or exactly as shown on RRC Records) <b>GARDEN CITY, S. (WOLF CAMP)</b>		6. API No. <b>42-173-35662</b>	7. Drilling Permit No. <b>758443</b>
8. Lease Name <b>Currie "E" STATE</b>	9. Rule 37 Case No.	10. Oil Lease/Gas ID No. <b>41832</b>	11. Well No. <b>4104</b>

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date				4/29/13			
13. • Drilled Hole Size				7 7/8"			
• Est. % wash or hole enlargement							
14. Size of casing (in. O.D.)				5 1/2"			
15. Top of liner (ft.)							
16. Setting depth (ft.)				9,318			
17. Number of centralizers used				38			
18. Hrs. Waiting on cement before drill-out				12			
1 <sup>st</sup> Slurry	19. API cement used: No. of sacks ▶			205			
	Class ▶			c			
	Additives ▶			REMARKS			
2 <sup>nd</sup> Slurry	No. of sacks ▶			705			
	Class ▶			h			
	Additives ▶			Remarks 2			
3 <sup>rd</sup> Slurry	No. of sacks ▶						
	Class ▶						
	Additives ▶						
1 <sup>st</sup>	20. Slurry pumped: Volume (cu. ft.) ▶			62			
	Height (ft.) ▶			2009			
2 <sup>nd</sup>	Volume (cu. ft.) ▶			159			
	Height (ft.) ▶			5153			
3 <sup>rd</sup>	Volume (cu. ft.) ▶						
	Height (ft.) ▶						
Total	Volume (cu. ft.) ▶			139			
	Height (ft.) ▶			7162			
21. Was cement circulated to ground surface (or bottom of cellar) outside casing?				no			
(22). Remarks #1 +0.40%fl-62+0.50%fl-52+0.50% sms+0.05% r-3+2.00lb/sk kol seat+0.125lb/sk cello Remarks #2 + 0.20% fl-52 + 0.005 gps fp -13! REMARKS #3 REMARKS #4							

RAILROAD COMMISSION OF TEXAS  
OIL AND GAS DIVISION

Form W-12  
(1-1-71)

<b>INCLINATION REPORT</b> (One Copy Must Be Filed With Each Completion Report.)		6. RRC District 08
1. FIELD NAME (as per RRC Records or Wildcat) GARDEN CITY, S. (WOLFCAMP)		7. RRC Lease Number, (Oil completions only) 41832
2. LEASE NAME CURRIE "E" STATE		8. Well Number #4104
3. OPERATOR COG OPERATING, LLC		9. RRC Identification Number (Gas completions only)
4. ADDRESS ONE PONCHO CENTER WOOD-ILLINOIS AVE. MIDLAND, TX 79701		10. County GLASSCOCK
5. LOCATION (Section, Block, and Survey) SEC. 41, BLK 32 T4S, T+P RR Co, A-82		

RECORD OF INCLINATION

*11. Measured Depth (feet)	12. Course Length (Hundreds of feet)	*13. Angle of Inclination* (Degrees)	14. Displacement per Hundred Feet (Sine of Angle X100)	15. Course Displacement (feet)	16. Accumulative Displacement (feet)
232	2.32	0.00	0.00	0.00	0.00
687	4.55	0.10	0.17	0.79	0.79
1167	4.74	0.30	0.35	1.65	2.45
1635	4.74	0.30	0.52	2.88	4.93
2146	5.11	0.60	1.05	5.33	10.28
2620	4.74	3.00	3.49	16.54	26.82
3095	4.75	3.40	4.19	19.89	46.71
3317	2.22	3.10	5.41	12.91	58.72
3571	2.54	3.20	5.58	14.78	73.90
3825	2.54	3.40	5.93	15.06	87.96
4079	2.54	3.50	6.10	15.51	103.47
4167	0.88	3.70	6.45	5.68	109.15
4411	2.04	4.10	3.66	8.94	118.09
4665	4.54	2.20	3.84	9.75	127.84
4918	2.53	1.60	2.79	7.06	134.90
5172	2.54	2.30	4.01	10.19	145.10

If additional space is needed, use the reverse side of this form.

17. Is any information shown on the reverse side of this form?  yes  no
18. Accumulative total displacement of well bore at total depth of 9353 feet = 264.45 feet.
- \*19. Inclination measurements were made in -  Tubing  Casing  Open hole  Drill Pipe
20. Distance from surface location of well to the nearest lease line 273 feet.
21. Minimum distance to lease line as prescribed by field rules 467 feet.
22. Was the subject well at any time intentionally deviated from the vertical in any manner whatsoever? NO
- (If the answer to the above question is "yes", attach written explanation of the circumstances.)

<p><b>INCLINATION DATA CERTIFICATION</b></p> <p>I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have personal knowledge of the inclination data and facts placed on both sides of this form and that such data and facts are true, correct, and complete to the best of my knowledge. This certification covers all data as indicated by asterisks (*) by the item numbers on this form.</p> <p><i>J. Brown</i> Signature of Authorized Representative JUSTIN BROWN OPERATIONS MGR. Name of Person and Title (type or print) SAVANNAH DRILLING Name of Company Telephone: 432-614-1055 Area Code</p>	<p><b>OPERATOR CERTIFICATION</b></p> <p>I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have personal knowledge of all information presented in this report, and that all data presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all data and information presented herein except inclination data as indicated by asterisks (*) by the item numbers on this form.</p> <p><i>Vickie L. Gotcher</i> Signature of Authorized Representative VICKIE L. GOTCHER - REGULATORY ANALYST Name of Person and Title (type or print) COG OPERATING LLC Operator Telephone: 432 818-2249 Area Code</p>
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Railroad Commission Use Only:

Approved By: \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

\* Designates items certified by company that conducted the inclination surveys.

# HALLIBURTON

## COMPENSATED NEUTRON GAMMA RAY/CCL LOG

TIGHT HOLE

Company COG OPERATING LLC	Well CURRIE "E" STATE 4104	Field GARDEN CITY, S (WOLFCAMP)	County GLASSCOCK	State TEXAS	Company COG OPERATING LLC		
					Well CURRIE "E" STATE 4104		
Field GARDEN CITY, S (WOLFCAMP)	County GLASSCOCK	State TEXAS	Field GARDEN CITY, S (WOLFCAMP)		County GLASSCOCK		
			State TEXAS		Other Services		
API No.: 42-173-35662			Serv #:		Other Services		
Location: 2352' FEL & 2243' FSL SEC 41, BLK 32, T-4-S T&P RR CO SURVEY					RCBL		
Sec:      Twp:      Rge:							
Permanent Datum		GROUND LEVEL		Elevation 2507'		Elevation	
Log Measured From		KB		17 Ft. above perm. datum		K.B. 2524'	
Drilling Measured From		KB				D.F. 2523'	
						G.L. 2507'	
Date @ Time Logged		8 MAY 2013		Type Fluid in Hole		WATER	
Run No		ONE		Density of Fluid		N/A	
Depth - Driller		9318'		Fluid Level		FULL	
Depth - Logger		9270'		Cement Top Est. Logged		3366'	
Bottom - Logged Interval		9268'		Equipment / Location		12087005 / ODESSA	
Top - Log Interval		4000'		Recorded by		B McCLAIN / A DE LEON	
Max. Recorded Temp.		NOT RECORDED		Witnessed by		MR BOB HOWARD	
CEMENTING DATA		Surface		Protection		Production	
		String		String		String	
Date / Time Cemented							
Primary / Squeeze							
Expected							
Compressive Strength		psi@ hrs		psi@ hrs		psi@ hrs	
Cement Volume							
Cement Type / Weight		/		/		/	
Formulation							
Mud Type / Mud Wgt		/		/		/	
Borehole Record				Casing & Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	11"	SURFACE	2200'	8.625"	32#	SURFACE	2200'
TWO	7.875"	2200'	9313'	5.5"	17#	SURFACE	9318'
SHORT	JOINT	6056'+	6077'+	SHORT	JOINT	8251'+	8274'

Groundwater  
Advisory Unit

GROUNDWATER PROTECTION DETERMINATION

Date April 26, 2012

GAU File No.: SC- 5858

\*\*\*\*\* EXPEDITED APPLICATION \*\*\*\*\*

API Number 17300000

Attention: VIOLA VASQUEZ

RRC Lease No. 000000

SC\_166150\_17300000\_000000\_5858.pdf

--Measured--

COG OPERATING LLC  
550 W TEXAS AVE  
STE 100  
MIDLAND TX 79701

MRL: SURVEY

P-5# 166150

Digital Map Location:	
X-coord/Long	101.35784
Y-coord/Lat	31.83213
Datum	83
Zone	

County GLASSCOCK

Lease & Well No. CURRIE -E- STATE #3102&ALL

Purpose ND

Location SUR-T&P, BLK-32, TSHP-48, SEC-31, -- [TD=10800], [RRC 8],

To protect usable-quality groundwater at this location, the Groundwater Advisory Unit of the Texas Railroad Commission recommends:

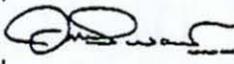
The interval from the land surface to 20 feet below the base of Cretaceous-age beds must be protected. The base of the Cretaceous is estimated to occur at a depth of 350 feet.

This recommendation is applicable to all wells drilled in this section 31.

Note: Unless stated otherwise, this recommendation is intended to apply only to the subject well and not for area-wide use. This recommendation is intended for normal drilling, production, and plugging operations only. It does not apply to saltwater disposal operation into a nonproductive zone (RRC Form W-14).

If you have any questions, please contact us at 512-483-2741, [rbu@rrc.state.tx.us](mailto:rbu@rrc.state.tx.us), or by mail.

Sincerely,

  
 Digitally signed by Jack Oswalt  
 DN: cn=J.M. Oswalt, o=Texas Railroad Commission of Texas, email=jack.oswalt@rrc.state.tx.us, Date: 2012.04.26 08:37:33 -0500

GEOLOGIST SEAL



Jack M. Oswalt, P.G.

Geologist, Groundwater Advisory Unit  
Oil & Gas Division

The seal appearing on this document was authorized by Jack M. Oswalt on 4/26/2012  
Note: Alteration of this electronic document will invalidate the digital signature.

STATEMENT OF PRODUCTIVITY OF ACREAGE  
ASSIGNED TO PRORATION UNITS

Form P-15

Tracking No.: 81878

This facsimile P-15 was generated electronically  
from data submitted to the RRC.

The undersigned states that he is authorized to make this statement; that he has knowledge of the facts concerning the COG OPERATING LLC ,

CURRIE "E" STATE , No. 4104 ; that such well is  
LEASE OPERATOR WELL

completed in the GARDEN CITY, S. (WOLFCAMP) Field, GLASSCOCK County,

Texas and that the acreage claimed, and assigned to such well for proration purposes as authorized by special rule and as shown on the attached certified plat embraces \_\_\_\_\_

160.0 acres which can reasonably be considered to be productive of hydrocarbons.

- CERTIFICATE -

*I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge,*

Date 03/18/2014 Signature Vickie Gotcher

Telephone (432) 818-2249 Title Regulatory Analyst  
AREA CODE

**P-15 ACREAGE LIST**

**CURRIE "E" STATE #4104**

**API # 173-35662**

**TOTAL LSE ACRES            1276 ac**

<b>WELL</b>	<b>API#</b>	<b>PRORATED ACREAGE</b>
Currie E State #3102	173-35108	160
Currie E State #3108	173-35472	160
Currie E State #3113	173-34028	160
Currie E State #4101	173-35870	160
Currie E State #4102	173-35917	160
Currie E State #4104	173-35662	160
	<b>TOTAL</b>	<b>960 ac</b>

**RAILROAD COMMISSION OF TEXAS  
OIL & GAS DIVISION**

PERMIT TO DRILL, DEEPEN, PLUG BACK, OR RE-ENTER ON A REGULAR OR ADMINISTRATIVE EXCEPTION LOCATION

PERMIT NUMBER 758443	DATE PERMIT ISSUED OR AMENDED Mar 15, 2013	DISTRICT * 08		
API NUMBER 42-173-35662	FORM W-1 RECEIVED Mar 12, 2013	COUNTY GLASSCOCK		
TYPE OF OPERATION NEW DRILL	WELLBORE PROFILE(S) Vertical	ACRES 1276		
OPERATOR COG OPERATING LLC	166150	NOTICE This permit and any allowable assigned may be revoked if payment for fee(s) submitted to the Commission is not honored. District Office Telephone No: (432) 684-5581		
LEASE NAME CURRIE 'E' STATE		WELL NUMBER 4104		
LOCATION 9.5 miles SE direction from GARDEN CITY		TOTAL DEPTH 9400		
Section, Block and/or Survey SECTION ◀ 41                      BLOCK ◀ 32 T4S                      ABSTRACT ◀ 82 SURVEY ◀ T&P RR CO				
DISTANCE TO SURVEY LINES 2243 ft. SOUTH    2352 ft. EAST		DISTANCE TO NEAREST LEASE LINE 273 ft.		
DISTANCE TO LEASE LINES 2243 ft. SOUTH    273 ft. WEST		DISTANCE TO NEAREST WELL ON LEASE See FIELD(s) Below		
FIELD(s) and LIMITATIONS: * SEE FIELD DISTRICT FOR REPORTING PURPOSES * ** THIS PERMIT IS GRANTED PURSUANT TO STATEWIDE RULE 37(h)(2)(B) ** CASE NO. 0281391				
FIELD NAME LEASE NAME	ACRES NEAREST LEASE	DEPTH NEAREST WE	WELL # NEAREST WE	DIST
** GARDEN CITY, S. (WOLFCAMP) CURRIE 'E' STATE	1276.00 273	7,642	4104 5795	08
RESTRICTIONS: This is a hydrogen sulfide field. Hydrogen Sulfide Fields with perforations must be isolated and tested per State Wide Rule 36 and a Form H-9 filed with the district office. Fields with SWR 10 authority to downhole commingle must be isolated and tested individually prior to commingling production.				
'**' PRECEDING FIELD NAME INDICATES RULE (R37)				
THE FOLLOWING RESTRICTIONS APPLY TO ALL FIELDS				
This well shall be completed and produced in compliance with applicable special field or statewide spacing and density rules. If this well is to be used for brine mining, underground storage of liquid hydrocarbons in salt formations, or underground storage of gas in salt formations, a permit for that specific purpose must be obtained from Environmental Services prior to construction, including drilling, of the well in accordance with Statewide Rules 81, 95, and 97.				

API No. <u>42-173-35662</u> Drilling Permit # <u>758443</u> SWR Exception Case/Docket No. <u>0281391 (R37)</u>	<b>RAILROAD COMMISSION OF TEXAS</b> <b>OIL &amp; GAS DIVISION</b> <b>APPLICATION FOR PERMIT TO DRILL, RECOMPLETE, OR RE-ENTER</b> <i>This facsimile W-1 was generated electronically from data submitted to the RRC.</i> <i>A certification of the automated data is available in the RRC's Austin office.</i>	<b>FORM W-1</b> 07/2004 Permit Status: <b>Approved</b>
--	--	---

1. RRC Operator No. <u>166150</u>	2. Operator's Name (as shown on form P-5, Organization Report) <b>COG OPERATING LLC</b>	3. Operator Address (include street, city, state, zip):
4. Lease Name <b>CURRIE 'E' STATE</b>	5. Well No. <u>4104</u>	

<b>GENERAL INFORMATION</b>					
6. Purpose of filing (mark ALL appropriate boxes):					
<input checked="" type="checkbox"/> New Drill	<input type="checkbox"/> Recompletion	<input type="checkbox"/> Reclass	<input type="checkbox"/> Field Transfer	<input type="checkbox"/> Re-Enter	
<input type="checkbox"/> Amended	<input type="checkbox"/> Amended as Drilled (BHL) (Also File Form W-1D)				
7. Wellbore Profile (mark ALL appropriate boxes):					
<input checked="" type="checkbox"/> Vertical	<input type="checkbox"/> Horizontal (Also File Form W-1H)	<input type="checkbox"/> Directional (Also File Form W-1D)	<input type="checkbox"/> Sidetrack		
8. Total Depth <u>9400</u>	9. Do you have the right to develop the minerals under any right-of-way? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		10. Is this well subject to Statewide Rule 36 (hydrogen sulfide area)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

<b>SURFACE LOCATION AND ACREAGE INFORMATION</b>					
11. RRC District No. <u>08</u>	12. County <b>GLASSCOCK</b>		13. Surface Location <input checked="" type="checkbox"/> Land <input type="checkbox"/> Bay/Estuary <input type="checkbox"/> Inland Waterway <input type="checkbox"/> Offshore		
14. This well is to be located <u>9.5</u> miles in a <u>SE</u> direction from <u>GARDEN CITY</u> which is the nearest town in the county of the well site.					
15. Section <u>41</u>	16. Block <u>32 T4S</u>	17. Survey <b>T&amp;P RR CO</b>	18. Abstract No. <u>A-82</u>	19. Distance to nearest lease line: <u>273</u> ft.	20. Number of contiguous acres in lease, pooled unit, or unitized tract: <u>1276</u>
21. Lease Perpendiculars: <u>2243</u> ft from the <u>SOUTH</u> line and <u>273</u> ft from the <u>WEST</u> line.					
22. Survey Perpendiculars: <u>2243</u> ft from the <u>SOUTH</u> line and <u>2352</u> ft from the <u>EAST</u> line.					
23. Is this a pooled unit? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		24. Unitization Docket No:		25. Are you applying for Substandard Acreage Field? <input type="checkbox"/> Yes (attach Form W-1A) <input checked="" type="checkbox"/> No	

<b>FIELD INFORMATION</b> List all fields of anticipated completion including Wildcat. List one zone per line.						
26. RRC District No.	27. Field No.	28. Field Name (exactly as shown in RRC records)	29. Well Type	30. Completion Depth	31. Distance to Nearest Well in this Reservoir	32. Number of Wells on this lease in this Reservoir
08	33998500	GARDEN CITY, S. (WOLFCAMP)	Oil or Gas Well	7642	5795.00	4

<b>BOTTOMHOLE LOCATION INFORMATION</b> is required for DIRECTIONAL, HORIZONTAL, AND AMENDED AS DRILLED PERMIT APPLICATIONS	
<b>Remarks</b> [RRC STAFF Mar 14, 2013 10:38 AM]: There have been problems identified with this permit (see problem letter attachment). Notification sent.; [RRC STAFF Mar 14, 2013 3:04 PM]: There have been problems identified with this permit (see problem letter attachment). Notification sent.; [RRC STAFF Mar 15, 2013 12:12 PM]: Problems identified with this permit are resolved.; [RRC STAFF Mar 15, 2013 12:12 PM]: Revised plat attached per Vickie Gotcher.	<b>Certificate:</b> I certify that information stated in this application is true and complete, to the best of my knowledge.  <u>Vickie Gotcher, Regulatory Analyst I</u> <u>Mar 12, 2013</u> Name of filer Date submitted <u>(432)818-2249</u> <u>vgotcher@concho.com</u> Phone E-mail Address (OPTIONAL)
<b>RRC Use Only</b> Data Validation Time Stamp: <u>Mar 15, 2013 12:18 PM (Current Version)</u>	

**APPLICATION FOR ALTERNATE SURFACE CASING PROGRAM**  
**Statewide Rule 13(b)(2)(g)**  
**RRC District 08**

7/03

Operator's Name and Address:  COG OPERATING LLC 550 W. TEXAS AVE., STE.100 MIDLAND, TEXAS 79701	Lease: CURRIE 'E' STATE	Well No. 4104
	Field: GARDEN CITY, S. (WOLFCAMP)	
	Drilling Permit No.: 758443	
	County: GLASSCOCK	RRC District: 08
	Location: SEC 41, BLK 32 T4S, T&P RR CO, A-82	
	Proposed TD: 9,400	

Distance and Direction from nearest town: 9.5 MILES SE FROM GARDEN CITY

Proposed injection or disposal well?  Yes  No NOTE: Special conditions may apply. See PROVISIONS below.

Usable-quality water strata (as determined by TCEQ "Waterboard" letter) occur to a depth of 350'+20' ft, and from \_\_\_\_\_ ft to \_\_\_\_\_ ft, and from \_\_\_\_\_ ft to \_\_\_\_\_ ft.

**Note: Please submit copy of TCEQ "Waterboard" letter with this request. Request cannot be processed without this information.**

Distance and direction of nearest water well (within 1/4 mile): WINDMILL 700' FROM SURFACE LOCATION

Type of water well (domestic, public, irrigation, stock, etc.): U/K Depth: U/K

**Proposed Casing and Cementing Program**

Note: You may attach a wellbore diagram or cementing proposal to this application.

This application is for (check applicable boxes):  Short surface casing  Excess surface casing  No surface casing

The proposed surface casing depth: 2200' Multi-Stage tool depth (if applicable): 475'

Intermediate or production casing depth: 9400' Multi-Stage tool depth (if applicable): N/A

Centralizer number and placement: Total 18 - 1-pin end top ft., 1-above/below DV tool, 1-every 4<sup>th</sup> ft to top, 1-7' above shoe

Does the cement across the critical zone have 72-hr compressive strength of at least 1,200 psi?  Yes  No

Does the filler cement have 24-hr compressive strength of at least 250 psi?  Yes  No

Do you plan on circulating cement to the surface on all casing strings protecting usable-quality water?  Yes  No

Reason for this request: to contain pressure if a deeper high-pressure zone is encountered.

**PROVISIONS APPLICABLE TO RULE 13 EXCEPTIONS:**

1. Caution: If this well is being drilled for injection or disposal purposes, an injection or disposal well permit may be denied unless surface casing is set and cemented through all zones of usable-quality groundwater.
2. Centralizers must be used through all usable-quality waters. Refer to Rule 13(b)(2)(F).
3. Notify District Office 8 hours prior to setting casing.

Signature: Vickie L. Gotcher Name: Vickie L. Gotcher Date: 04/05/2013 Phone: 432-818-2249

**IF CEMENT IS NOT CIRCULATED TO THE GROUND SURFACE AS REQUIRED BY THIS EXCEPTION, YOU MUST IMMEDIATELY CONTACT THE DISTRICT 7C OFFICE AT 325-657-7450, AND FOLLOW THE PROCEDURES AS SET OUT IN RULE 13(B)(2)(g)(III) OR AS RECOMMENDED BY THE DISTRICT OFFICE.**

RRC Use Only ▶	RRC District Office Action:
	<input type="checkbox"/> Approved <input checked="" type="checkbox"/> Approved as Modified <input type="checkbox"/> Denied By: <u>[Signature]</u> Date: <u>4-8-13</u>
	Remarks/Modifications: <u>Critical Zone Slurry required across the water board</u>

Block 32, T-4-S,  
T. & P. RR. Co.

Currie "E" State

COG OPERATING LLC

N 75°26'42" E 5249.69'

(52568)

(S-18888)

(S-18887)

31

32

33

42  
(46853)

41

40

(S-18890)

(62466)

N 14°21'20" W 5301.18'

5735'  
to #108

To Lease Line  
3058'

S 14°21'20" E 5301.18'

#4104

EL  
2507

2352'

S 75°26'42" W 5249.69'

Currie "E" State

160 ac

(S-18891) 43

44

(52567)

45

(S-18892)

Note: Survey Reconstruction filed in the Office of Luchini and Mertz Land Surveying Company.

Note: All bearings and coordinates shown are based on the Texas Coordinate System of 1927, Central Zone.

Note: A combined grid factor of 0.9998632 must be divided into Section Line distances to obtain a true horizontal distance.

Note: Example: (S-99999) indicates General Land Office file number.

Note: NAD '27 Coordinates & Latitude/Longitude on well location in Section 41.

Note: Well location is approximately 9.5 miles southeast of Garden City.

#4104

X: 1691371.20

Latitude: 31.81689598°

Y: 783414.88

Longitude: -101.32689771°

Latitude: 31°49'00.83"N Longitude: 101°19'36.83"W

Railroad Commission Permit Plat

COG OPERATING LLC

Currie "E" State Lease

the SW/4 of Section 30, the N/2 & SE/4 of Section 31,  
the SW/4 of Section 32 & the N/2 & SE/4 of Section 41,

Block 32, T-4-S, T. & P. RR. Co.,

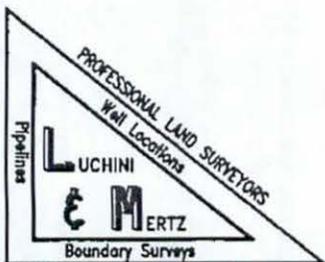
Glasscock County, Texas



Steven L. Prewit

March 5, 2013

130305CW2



File No. MF 112153  
RRC Forms  
173-35662

Date Filed: 8-6-13  
Jerry E. Patterson, Commissioner

By JEP

MF 112153

Unit 6685

## RAILROAD COMMISSION OF TEXAS

Oil and Gas Division

Tracking No.: 97092

Status: Approved

This facsimile W-2 was generated electronically  
from data submitted to the RRC.

API No. 42- 173-35917

7 RRC District No  
08

## Oil Well Potential Test, Completion or Recompletion Report, and Log

8 RRC Lease No.  
418329 Well No.  
41021. FIELD NAME (as per RRC Records or Wildcat)  
GARDEN CITY, S. (WOLFCAMP)2. LEASE NAME  
CURRIE "E" STATE3. OPERATOR'S NAME (Exactly as shown on Form P-5, Organization Report)  
COG OPERATING LLCRRC Operator No.  
16615010 County of well site  
GLASSCOCK4. ADDRESS  
ONE CONCHO CENTER 600 W ILLINOIS AVE MIDLAND, TX 79701-0000

11 Purpose of filing

Initial Potential Retest Reclass Well record only  
(Explain in remarks) 

5. If Operator has changed within last 60 days, name former operator

6a. Location (Section, Block, and Survey)  
41, 32 T4S, T&P RR CO, A-826b. Distance and direction to nearest town in this county  
GARDEN CITY12. If workover or reclass, give former field (with reservoir) & Gas ID or oil lease no.  
FIELD & RESERVOIRGAS ID or  
OIL LEASE #Oil-O  
Gas-G

Well #

N/A

13. Type of electric or other log run  
Neutron logs14. Completion or recompletion date  
01/23/2014

## SECTION I- POTENTIAL TEST DATA IMPORTANT: Test should be for 24 hours unless otherwise specified infield rules.

15. Date of test 02/09/2014	16. No. of hours tested 24	17. Production method (Flowing, Gas Lift, Jetting, Pumping- Size & Type of pump) Pumping			18 Choke size
19. Production during Test Period	Oil - BBLS 37.0	Gas - MCF 193	Water - BBLS 41	Gas - Oil Ratio 5216	Flowing Tubing Pressure PSI
20. Calculated 24- Hour Rate	Oil - BBLS 37.0	Gas - MCF 193	Water - BBLS 41	Oil Gravity-API-60° 45.1	Casing Pressure PSI
21. Was swab used during this test? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		22. Oil produced prior to test (New & Reworked wells) 620.0		23 Injection Gas-Oil Ratio	
REMARKS: N/A					

INSTRUCTIONS: File an original and one copy of the completed Form W-2 in the appropriate RRC District Office within 30 days after completing a well and within 10 days after a potential test. If an operator does not properly report the results of a potential test within the 10-day period, the effective date of the allowable assigned to the well will not extend back more than 10 days before the W-2 was received in the District Office. (Statewide Rules 16 and 51) To report a completion or recompletion, fill in both sides of this form. To report a retest, fill in only the front side.

## WELL TESTERS CERTIFICATION

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I conducted or supervised this test by observation of (a) meter readings or (b) the top and bottom gauges of each tank into which production was run during the test. I further certify that the potential test data shown above is true, correct, and complete, to the best of my knowledge.

Signature Well Tester

Name of Company

RRC Representative

## OPERATOR'S CERTIFICATION

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct and complete, to the best of my knowledge.

COG OPERATING LLC

Type or printed name of operator's representative

(432) 818-2249 02/11/2014

Telephone Area Code Number Month Day Year

Regulatory Analyst

Title of Person

Vickie Gotcher

Signature

**SECTION III DATA ON WELL COMPLETION AND LOG (Not Required on Retest)**

24. Type of Completion  
 New Well  Deepening  Plug Back  Other

25. Permit to Drill, Plug Back or Deepen DATE 06/24/2013 PERMIT NO 765098  
 Rule 37 Exception CASE NO.  
 Water Injection Permit PERMIT NO.  
 Salt Water Disposal Permit PERMIT NO.  
 Other PERMIT NO.

26. Notice of Intention to Drill this well was filed in Name of  
**COG OPERATING LLC**

27. Number of producing wells on this lease in this field (reservoir) including this well  
 6

28. Total number of acres in this lease  
 1284.0

29. Date Plug Back, Deepening, Workover or Drilling Operations: Commenced 09/24/2013 Completed 10/04/2013

30. Distance to nearest well, Same Lease & Reservoir  
 3255.0

31. Location of well, relative to nearest lease boundaries  
 1989.0 Feet From South Line and 660.0 Feet from West Line of the CURRIE 'E' STATE Lease

32. Elevation (DF, RKB, RT, GR ETC.)  
 2521 GR

33. Was directional survey made other than inclination (Form W-12)?  Yes  No

34. Top of Pay 35. Total Depth 9380 36. P. B. Depth 9378 37. Surface Casing Determined by: Field Rules  Recommendation of T.D.W.R. Railroad Commission (Special)  Dt. of Letter 07/03/2012

38. Is well multiple completion?  Yes  No

39. If multiple completion, list all reservoir names (completions in this well) and Oil Lease or Gas ID No.  
 FIELD & RESERVOIR N/A GAS ID or OIL LEASE # Oil-O Gas-G Well #

40. Intervals Drilled by: Rotary Tools  Cable Tools  41. Name of Drilling Contractor 42. Is Cementing Affidavit Attached?  Yes  No

**43. CASING RECORD (Report All Strings Set in Well)**

CASING SIZE	WT #/FT.	DEPTH SET	MULTISTAGE TOOL DEPTH	TYPE & AMOUNT CEMENT (sacks)	HOLE SIZE	TOP OF CEMENT	SLURRY VOL. cu. ft.
8 5/8		2184		CL C 1450	11	0	2504.0
5 1/2		9380		CL C/CL H 955	7 7/8	3264	1325.0

**44. LINER RECORD**

Size	Top	Bottom	Sacks Cement	Screen
N/A				

**45. TUBING RECORD**

Size	Depth Set	Packer Set	46. Producing Interval (this completion) Indicate depth of perforation or open hole
2 3/8	9350		From 7000 To 9190
			From To
			From To

**47. ACID, SHOT, FRACTURE, CEMENT SQUEEZE ETC**

Depth Interval	Amount and Kind of Material Used
7000.0 9190.0	17,229 BBLs WATER, 1,402,500# SAND

**48. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)**

Formations	Depth	Formations	Depth
CLEAR FORK	4186.0	STRAWN	9015.0
SPRABERRY	4910.0		
WOLFCAMP	6315.0		
REMARKS: N/A			

Cementer: Fill in shaded areas.  
Operator: Fill in other items.

**RAILROAD COMMISSION OF TEXAS**  
**Oil and Gas Division**

Form W-15  
Cementing Report  
Rev. 4/1/83  
483-045

1. Operator's Name (As shown on Form P-5, Organization Report) <b>COG OPERATING, LLC</b>	2. RRC Operator No. <b>166150</b>	3. RRC District No. <b>08</b>	4. County of Well Site <b>Glasscock</b>
5. Field Name (Wildcat or exactly as shown on RRC Records) <b>GARDEN CITY, S. (WOLFCAMP)</b>		6. API No. <b>42-173-35917</b>	7. Drilling Permit No. <b>765098</b>
8. Lease Name <b>CURRIE E' STATE</b>		9. Rule 37 Case No.	10. Oil Lease/Gas ID No. <b>41832</b>
			11. Well No. <b>4102</b>

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date		9/25/13					
13. • Drilled Hole Size		11"					
• Est. % wash or hole enlargement							
14. Size of casing (In. O.D.)		8 5/8"					
15. Top of liner (ft.)							
16. Setting depth (ft.)		2184'					
17. Number of centralizers used		18					
18. Hrs. Waiting on cement before drill-out		12					
1 <sup>st</sup> Slurry	19. API cement used: No. of sacks ▶	1250					
	Class ▶	c					
	Additives ▶	Remarks1					
2 <sup>nd</sup> Slurry	No. of sacks ▶	200					
	Class ▶	c					
	Additives ▶	Remarks2					
3 <sup>rd</sup> Slurry	No. of sacks ▶						
	Class ▶						
	Additives ▶						
1 <sup>st</sup>	20. Slurry pumped: Volume (cu. ft.) ▶	2238					
	Height (ft.) ▶	8790					
2 <sup>nd</sup>	Volume (cu. ft.) ▶	266					
	Height (ft.) ▶	1038					
3 <sup>rd</sup>	Volume (cu. ft.) ▶						
	Height (ft.) ▶						
Total	Volume (cu. ft.) ▶	2504					
	Height (ft.) ▶	9828					
1. Was cement circulated to ground surface (or bottom of cellar) outside casing?		yes					
2. Remarks1+5%bwow sodium chloridw+0.125/lbscelloflake+0.1%bwocfl-52+4%bwocbentonite1+84.1%fw							
3. Remarks2+0.5%bwoc calcium chloride+ 56.2%fw							
4. Remarks3+							
Remarks5+ 105 bbl of cmt to surface =59sacks							

CEMENTING TO PLUG AND ABANDON	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
23. Cementing date								
24. Size of hole or pipe plugged (in.)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu. ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lb/gal)								
31. Type cement								

CEMENTER'S CERTIFICATE: I declare under penalties in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

**DAVID G DAVIS**

Name and title of cementer's representative

**Baker Hughes Pressure Pumping Services**

Cementing Company

Signature

**P.O. Box 4717**

Address

**Odessa,**

City,

**Texas**

State,

**79760**

Zip Code

**(432) 381-2301**

Tel. Area Code Number

**9/25/13**

Date: mo. day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

**VICKIE L GOTCHER**

Typed or printed name of operator's representative

**REGULATORY ANALYST**

Title

**Vickie L. Gotcher**

Signature

**600 W. ILLINOIS AVE. MIDLAND, TX 79701**

Address

City,

State,

Zip Code

**432-818-2249**

Tel. Area Code Number

**10/14/13**

Date: mo. day yr.

Instructions to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging). For offshore operations, see the requirements of Rule 13 (c).

A. What to file. An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following.

- An initial oil or gas completion report, Form W-2 or G-1, as required by Statewide or special field rules;
- Form W-4, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- Form W-3, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete Form W-15, in addition to Form W-3, to show any casing cemented in the hole.

B. Where to file. The appropriate Commission District Office for the county in which the well is located.

C. Surface Casing. An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Committee.

D. Centralizers. Surface Casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In non-deviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. Exceptions and alternative casing programs. The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. An operator must obtain approval of any exception before beginning casing and cementing operations.

F. Intermediate and production casing. For specific technical requirements, operators should consult Statewide Rule 13 (3) and (4).

G. Plugging and abandoning. Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations, Cementing companies, service companies or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

RECEIVED

OCT 10 2013

Regulatory-TX Asset Team

**RAILROAD COMMISSION OF TEXAS  
Oil and Gas Division**

Cementer: Fill in shaded areas.  
Operator: Fill in other items.

Form W-15  
Cementing Report  
Rev. 4/1/83  
483-045

1. Operator's Name (As shown on Form P-3, Organization Report) <b>COG OPERATIONS LLC</b>	2. RRC Operator No. <b>1160150</b>	3. RRC District No. <b>08</b>	4. County of Well Sight <b>GLASSCOK</b>
5. Field Name (Wildcat or exactly as shown on RRC records) <b>GARDEN CITY, S. (WOLFCAMP)</b>	7. API NO. <b>42-</b>	173-35917	8. Drilling Permit No. <b>765098</b>
8. Lease Name <b>CURRIE STATE</b>	9. Rule 37 Case No.	10. Oil Lease/Gas ID No. <b>41832</b>	11. Well No. <b>4102</b>

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date				<b>10/3/2013</b>			
13. -Drilled hole size				<b>7 7/8"</b>			
-Est. % wash or hole enlargement							
14. Size of casing (in. O.D.)				<b>5 1/2"</b>			
15. Top of liner (ft.)							
16. Setting depth (ft.)				<b>4,350'</b>			
17. Number of centralizers used				<b>37</b>			
18. Hrs. Waiting on cement before drill-out				<b>12</b>			
1st Slurry	19. API cement used: No. of sacks			<b>306</b>			
	Class			<b>CLASS C</b>			
	Additives			<b>REMARKS</b>			
2nd Slurry	No. of sacks			<b>650</b>			
	Class			<b>CLASS H</b>			
	Additives			<b>REMARKS</b>			
3rd Slurry	No. of sacks						
	Class						
	Additives						
1st	20. Slurry Pumped: Volume (cu.ft.)			<b>506</b>			
	Height (ft.)			<b>2916</b>			
2nd	Volume (cu.ft.)			<b>820</b>			
	Height (ft.)			<b>4731</b>			
3rd	Volume (cu.ft.)						
	Height (ft.)						
Total	Volume (cu.ft.)			<b>1326</b>			
	Height (ft.)			<b>7647</b>			
21. Was cement circulated to ground surface (or bottom of cellar) outside casing?				<b>NO</b>			
22. Remarks LEAD SLURRY / 90 BBLs @ 12.5 PPG / 300 SACKS / 60:40 POZ FLY ASH CLASS C CEMENT + .40% FL 62 + .50% FL 52A + .50% SMS + .05% R3 + 2 LBS SACK KOL SEAL + 0.125 LBS CELLO FLAKE + 89.4% FRESH WATER TAIL SLURRY / 146 BBLs @ 14.2 PPG / 650 SACKS / 50:50 POZ FLY ASH PREMIUM CLASS H CEMENT + 2% BWOC BENTONITE II + .2% BWOC FL52-A + .005 GPS FP-13L + 1% BWOW SODIUM CHLORIDE + 57% FRESH WATER							

CEMENTING TO PLUG AND ABANDON	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
23. Cementing date								
24. Size of hole or pipe plugged (in.)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu.ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft.)								
30. Slurry weight (lbs./gal.)								
31. Type cement								

CEMENTERS CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

THOMAS HILL / FIELD SPECIALIST II  
Name and title of cementer's representative

Baker Hughes Oilfield Operations, Inc.  
Cementing Company

Thomas Hill  
Signature

525 TRADEWAY, MINERAL WELLS TX 76067  
Address City State Zip Code

940-327-6500  
Tel.: Area Code Number

10/3/2013  
Date: Month Day Yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

VICKIE L. GOTCHER  
Typed or printed name of operator's representative

REG. ANALYST  
Title

Vickie L. Gotcher  
Signature

600 W. ILLINOIS AVE MIDLAND TX 79701  
Address City State Zip Code

432-818-2249  
Tel.: Area Code Number

10/14/13  
Date: Month Day Yr.

### Instructions to Form W-15, Cementing Report

**IMPORTANT:** Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging). For offshore operations, see the requirements of Rule 13 c.

A. What to file. An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- An initial oil or gas completion report, W-2 or G-1, as required by Statewide or special field rules;
- Form W-4, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- Form W-3, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete Form W-15. In addition to Form W-3, to shoe any casing cemented in the hole.

B. Where to file. The appropriate Commission District Office for the county in which the well is located.

C. Surface casing. An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

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E. Exceptions and alternative casing programs. The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. An operator must obtain approval of any exception before beginning casing and cementing operations.

F. Intermediate and production casing. For specific technical requirements, operators should consult Statewide Rule 13 (b) (3) and (4).

G. Plugging and abandoning. Cement plugs must be placed in the wellbore as required Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

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OCT 10 2013

Regulatory-TX Asset Team

RAILROAD COMMISSION OF TEXAS  
OIL AND GAS DIVISION

Form W-12  
(1-1-71)

<b>INCLINATION REPORT</b> (One Copy Must Be Filed With Each Completion Report.)		6. RRC District 08
		7. RRC Lease Number. (Oil completions only) 41832
1. FIELD NAME (as per RRC Records or Wildcat) GARDEN City, S. (WOLFCAMP)	2. LEASE NAME Currie E State	8. Well Number 4102
3. OPERATOR COG OPERATIONS, LLC		9. RRC Identification Number (Gas completions only)
4. ADDRESS ONE PONCHO CENTER 400 W. ILLINOIS AVE. MIDLAND, TX 79701		10. County GLASSCOCK
5. LOCATION (Section, Block, and Survey) SEC. 41, BLK 32 T4S, T+P RR Co SWEET, A-82		

RECORD OF INCLINATION

*11. Measured Depth (feet)	12. Course Length (Hundreds of feet)	*13. Angle of Inclination* (Degrees)	14. Displacement per Hundred Feet (Sine of Angle X100)	15. Course Displacement (feet)	16. Accumulative Displacement (feet)
263	2.63	1.10	1.92	5.05	5.05
747	4.84	0.50	0.87	4.22	9.27
1232	4.75	0.80	1.40	6.63	15.90
1730	5.08	0.80	1.40	7.09	23.00
2184	4.54	0.60	1.05	4.75	27.75
2258	0.74	0.50	0.87	0.65	28.40
2742	4.84	1.30	2.27	10.98	39.38
3090	3.48	1.60	3.79	9.72	49.09
3598	5.08	2.00	3.49	17.73	66.82
3947	3.49	2.50	4.36	15.22	82.05
4167	2.20	3.70	6.45	14.20	96.24
4205	0.38	4.20	7.32	2.78	99.03
4268	0.63	3.30	5.76	3.63	102.65
4332	0.64	1.30	2.09	1.34	103.99
4395	0.63	1.10	1.92	1.21	105.20
4459	0.64	1.90	3.32	2.12	107.33

If additional space is needed, use the reverse side of this form.

17. Is any information shown on the reverse side of this form?  yes  no 9380
18. Accumulative total displacement of well bore at total depth of 9380 feet = 234.49 feet.
- \*19. Inclination measurements were made in -  Tubing  Casing  Open hole  Drill Pipe
20. Distance from surface location of well to the nearest lease line 660 feet.
21. Minimum distance to lease line as prescribed by field rules 330 feet.
22. Was the subject well at any time intentionally deviated from the vertical in any manner whatsoever? NO
- (If the answer to the above question is "yes", attach written explanation of the circumstances.)

<p><b>INCLINATION DATA CERTIFICATION</b></p> <p>I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have personal knowledge of the inclination data and facts placed on both sides of this form and that such data and facts are true, correct, and complete to the best of my knowledge. This certification covers all data as indicated by asterisks (*) by the item numbers on this form.</p> <p>Signature of Authorized Representative <u>Justin Brown</u></p> <p>Name of Person and Title (type or print) <u>SAVANNAH DRILLING</u></p> <p>Name of Company <u>432- 614-1055</u></p> <p>Telephone: <u>432- 614-1055</u></p> <p>Area Code</p>	<p><b>OPERATOR CERTIFICATION</b></p> <p>I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have personal knowledge of all information presented in this report, and that all data presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all data and information presented herein except inclination data as indicated by asterisks (*) by the item numbers on this form.</p> <p>Signature of Authorized Representative <u>Vickie L. Gotcher</u></p> <p>Name of Person and Title (type or print) <u>COG OPERATIONS LLC</u></p> <p>Operator <u>432 818-2249</u></p> <p>Telephone: <u>432 818-2249</u></p> <p>Area Code</p>
--	---

Railroad Commission Use Only:

Approved By: \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

\* Designates items certified by company that conducted the inclination surveys.



Groundwater  
Advisory Unit

GROUNDWATER PROTECTION DETERMINATION

Date July 3, 2012

GAU File No.: SC- 5978

\*\*\*\*\* EXPEDITED APPLICATION \*\*\*\*\*

API Number 17300000

Attention: VIOLA VASQUEZ

RRC Lease No. 000000

SC\_I66150\_17300000\_000000\_5978.pdf

COG OPERATING LLC 550 W TEXAS AVE STE100 MIDLAND TX 79701	--Measured--	Digital Map Location:
	1117 ft FWL 1055 ft FSL MRL: SURVEY	X-coord/Long <u>1689712</u> Y-coord/Lat <u>781897</u> Datum <u>27</u> Zone <u>C</u>
P-5# <u>166150</u>		

County <u>GLASSCOCK</u>	Lease & Well No. <u>CURRIE E #4115&amp;ALL</u>	Purpose <u>ND</u>
Location <u>SUR-T&amp;P, BLK-32, TSHP-4S, SEC-41, --[TD=10800], [RRC 8], [PSC#4038]</u>		

To protect usable-quality groundwater at this location, the Groundwater Advisory Unit of the Texas Railroad Commission recommends:

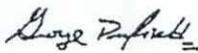
The interval from the land surface to 20 feet below the base of Cretaceous-age beds must be protected. The base of the Cretaceous is estimated to occur at a depth of 350 feet.

This recommendation is applicable to all wells drilled in this SECTION 41.

Note: Unless stated otherwise, this recommendation is intended to apply only to the subject well and not for area wide use. This recommendation is intended for normal drilling, production, and plugging operations only. It does not apply to saltwater disposal operation into a non-productive zone (RRC Form W-14).

If you have any questions, please contact us at 512-463-2741, [gauf@rrc.state.tx.us](mailto:gauf@rrc.state.tx.us), or by mail.

Sincerely,

  
Digitally signed by George Dunfield  
DN: c=US, e=TEXAS, o=Austin,  
o=Railroad Commission of Texas,  
ou=George Dunfield,  
email=george.dunfield@rrc.state.tx.us  
Date: 2012.07.03 10:12:30 -0500  
George Dunfield, P.G.

GEOLOGIST SEAL



Geologist, Groundwater Advisory Unit  
Oil & Gas Division

This seal appearing on this document was authorized by George Dunfield on 7/3/2012  
Note: Alteration of this electronic document will invalidate the digital signature.

**APPLICATION FOR ALTERNATE SURFACE CASING PROGRAM**  
**Statewide Rule 13(b)(2)(g)**  
**RRC District 08**

7/03

Operator's Name and Address:  <b>COG OPERATING LLC</b> 550 W. TEXAS AVE., STE.100 MIDLAND, TEXAS 79701	Lease: CURRIE 'E' STATE	Well No. 4102
	Field: GARDEN CITY, S. (WOLFCAMP)	
	Drilling Permit No.: 765098	
	County: GLASSCOCK	RRC District: 08
	Location: SEC 41, BLK 32 T4S, T&P RR CO, A-82	
	Proposed TD: 9,500	

Distance and Direction from nearest town: 9 MILES SE FROM GARDEN CITY

Proposed injection or disposal well?  Yes  No NOTE: Special conditions may apply. See PROVISIONS below.

Usable-quality water strata (as determined by TCEQ "Waterboard" letter) occur to a depth of 350'+20' ft, and from \_\_\_\_\_ ft to \_\_\_\_\_ ft, and from \_\_\_\_\_ ft to \_\_\_\_\_ ft.

**Note: Please submit copy of TCEQ "Waterboard" letter with this request. Request cannot be processed without this information.**

Distance and direction of nearest water well (within 1/4 mile): WINDMILL .4 MILES FROM LOCATION  
 Type of water well (domestic, public, irrigation, stock, etc.): UNKNOWN Depth: \_\_\_\_\_

**Proposed Casing and Cementing Program**

Note: You may attach a wellbore diagram or cementing proposal to this application.

This application is for (check applicable boxes):  Short surface casing  excess surface casing  no surface casing

The proposed surface casing depth: 2200' Multi-Stage tool depth (if applicable): 475' IF NEEDED

Intermediate or production casing depth: 9500' Multi-Stage tool depth (if applicable): N/A

Centralizer number and placement: Total 18 - 1-pin end top ft., 1-above/below DV tool, 1-every 4<sup>th</sup> ft to top, 1- 7' above shoe

Does the cement across the critical zone have 72-hr compressive strength of at least 1,200 psi?  Yes  No

Does the filler cement have 24-hr compressive strength of at least 250 psi?  Yes  No

Do you plan on circulating cement to the surface on all casing strings protecting usable-quality water?  Yes  No

Reason for this request: to contain pressure if a deeper high-pressure zone is encountered.

**PROVISIONS APPLICABLE TO RULE 13 EXCEPTIONS:**

- Caution: If this well is being drilled for injection or disposal purposes, an injection or disposal well permit may be denied unless surface casing is set and cemented through all zones of usable-quality groundwater.
- Centralizers must be used through all usable-quality waters. Refer to Rule 13(b)(2)(F).
- Notify District Office 8 hours prior to setting casing.

Signature: Vickie L. Gotcher Name: Vickie L. Gotcher Date: 09/12/13 Phone: 432-818-2249

**IF CEMENT IS NOT CIRCULATED TO THE GROUND SURFACE AS REQUIRED BY THIS EXCEPTION, YOU MUST IMMEDIATELY CONTACT THE DISTRICT 7C OFFICE AT 325-657-7450, AND FOLLOW THE PROCEDURES AS SET OUT IN RULE 13(B)(2)(g)(III) OR AS RECOMMENDED BY THE DISTRICT OFFICE.**

RRC Use Only ▶	RRC District Office Action:		
	<input type="checkbox"/> Approved	<input checked="" type="checkbox"/> Approved as Modified	<input type="checkbox"/> Denied
	By: <u>[Signature]</u>		Date: 9-16-13
Remarks/Modifications: <u>Critical Zone Slurry required across the water board</u>			

LLIBURTON

COMPENSATED NEUTRON  
GAMMA RAY/CCL  
LOG

TIGHT HOLE

GARDEN CITY, SOUTH (Wolfcamp)

GLASSCOCK State TEXAS

Company COG OPERATING LLC  
Well CURRIE E STATE 4102  
Field GARDEN CITY, SOUTH (Wolfcamp)  
County GLASSCOCK State TEXAS

API No 42-173-35917 Serv # 900804632 Other Services  
Location: 660' FWL & 660' FNL  
SEC 41, BLK 32, T-4-S  
T&P RR CO SURVEY

NONE

County

Sec: Twp: Rge:

datum GROUND LEVEL Elevation 2521' Elevation  
d From KB 17 Ft. above perm datum K.B 2538'  
measured From KB D.F 2537'  
G.L 2521'

Logged 23 OCT 2013 Type Fluid in Hole WATER  
TWO Density of Fluid N/A  
r 9380' Fluid Level FULL  
er 9380' Cement Top Est. Logged 3264'  
ged Interval 9378' Equipment / Location 12087005 / ODESSA  
erval 4000' Recorded by B McCLAIN  
ed Temp NOT RECORDED Witnessed by MR BOB HOWARD

DATA Surface Protection Production Liner  
String String String

Cemented  
Seize

Strength psi@ hrs psi@ hrs psi@ hrs psi@ hrs

me

Weight / / / /

fluid Wgt / / / /

Borehole Record			Casing & Tubing Record			
Bit	From	To	Size	Weight	From	To
11"	SURFACE	2184'	8.625"	32#	SURFACE	2184'
7.875"	2184'	9380'	5.5"	17#	SURFACE	9380'

STATEMENT OF PRODUCTIVITY OF ACREAGE  
ASSIGNED TO PRORATION UNITS

Form P-15

Tracking No.: 97092

This facsimile P-15 was generated electronically  
from data submitted to the RRC.

The undersigned states that he is authorized to make this statement; that he has knowledge of the facts concerning the COG OPERATING LLC

CURRIE "E" STATE OPERATOR No. 4102 ; that such well is  
LEASE WELL

completed in the GARDEN CITY, S. (WOLFCAMP) Field, GLASSCOCK County,

Texas and that the acreage claimed, and assigned to such well for proration purposes as authorized by special rule and as shown on the attached certified plat embraces \_\_\_\_\_

160.0 acres which can reasonably be considered to be productive of hydrocarbons.

- CERTIFICATE -

*I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge,*

Date 02/11/2014 Signature Vickie Gotcher

Telephone (432) 818-2249 Title Regulatory Analyst  
AREA CODE

P-15 ACREAGE LEASE  
CURRIE E STATE #4102  
API# 173-35917

TOTAL LSE ACRES            1284 ac

	API#	ACRES
Currie E State #3102	173-35108	160
Currie E State #3108	173-35472	160
Currie E State #3113	173-34028	160
Currie E State #4101	173-35870	160
Currie E State #4102	173-35917	160
Currie E State #4104	173-35662	160
		960 ac

**RAILROAD COMMISSION OF TEXAS  
OIL & GAS DIVISION**

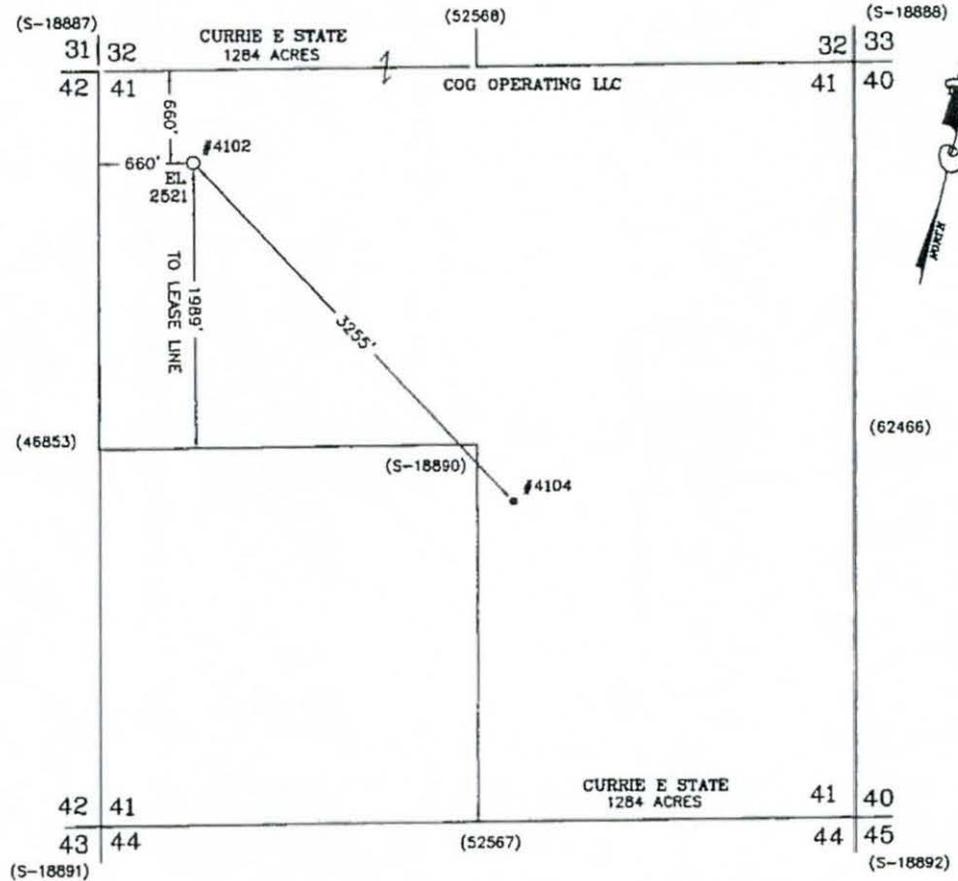
PERMIT TO DRILL, DEEPEN, PLUG BACK, OR RE-ENTER ON A REGULAR OR ADMINISTRATIVE EXCEPTION LOCATION

PERMIT NUMBER 765098	DATE PERMIT ISSUED OR AMENDED Jun 24, 2013	DISTRICT * 08	
API NUMBER 42-173-35917	FORM W-1 RECEIVED Jun 20, 2013	COUNTY GLASSCOCK	
TYPE OF OPERATION NEW DRILL	WELLBORE PROFILE(S) Vertical	ACRES 1284	
OPERATOR COG OPERATING LLC	166150	NOTICE This permit and any allowable assigned may be revoked if payment for fee(s) submitted to the Commission is not honored. District Office Telephone No: (432) 684-5581	
LEASE NAME CURRIE 'E' STATE		WELL NUMBER 4102	
LOCATION 9 miles SE direction from GARDEN CITY		TOTAL DEPTH 9500	
Section, Block and/or Survey SECTION ◀ 41                      BLOCK ◀ 32 T4S                      ABSTRACT ◀ 82 SURVEY ◀ T&P RR CO			
DISTANCE TO SURVEY LINES 660 ft. NORTH    660 ft. WEST		DISTANCE TO NEAREST LEASE LINE 660 ft.	
DISTANCE TO LEASE LINES 1989 ft. SOUTH    660 ft. WEST		DISTANCE TO NEAREST WELL ON LEASE See FIELD(s) Below	
FIELD(s) and LIMITATIONS: * SEE FIELD DISTRICT FOR REPORTING PURPOSES *			
FIELD NAME LEASE NAME	ACRES NEAREST LEASE	DEPTH WELL # NEAREST WE	DIST
GARDEN CITY, S. (WOLFCAMP) CURRIE 'E' STATE	1284.00 660	7,642 4102 3255	08
RESTRICTIONS: This is a hydrogen sulfide field. Hydrogen Sulfide Fields with perforations must be isolated and tested per State Wide Rule 36 and a Form H-9 filed with the district office. Fields with SWR 10 authority to downhole commingle must be isolated and tested individually prior to commingling production.			
THE FOLLOWING RESTRICTIONS APPLY TO ALL FIELDS			
This well shall be completed and produced in compliance with applicable special field or statewide spacing and density rules. If this well is to be used for brine mining, underground storage of liquid hydrocarbons in salt formations, or underground storage of gas in salt formations, a permit for that specific purpose must be obtained from Environmental Services prior to construction, including drilling, of the well in accordance with Statewide Rules 81, 95, and 97.			





BLOCK 32, T-4-S,  
T. & P. RR. CO. SURVEY,  
GLASSCOCK COUNTY, TEXAS



Coordinate Table

WELL	PLANE COORDINATE	GEODETIC COORDINATE (NAD'27)	GEO. COORD. - DEC. DEG. (NAD'27)	GEO. COORD. - DEC. DEG. (NAD'83)
CURRIE E STATE #4102	X = 1,688,638.1 Y = 785,179.5	Longitude = 101°20'08.690" W Latitude = 31°49'18.045" N	Longitude = 101.335747114° W Latitude = 31.821679259° N	Longitude = 101.33614174° W Latitude = 31.82181472° N

NOTES:

- 1) Plane Coordinates and Bearings shown hereon are Lambert Grid and Conform to the "Texas Coordinate System", Texas Central Zone, North American Datum of 1927. Distances shown hereon are mean horizontal surface values.
- 2) Geodetic Coordinates shown hereon references the North American Datum of 1927, (Clarke Spheroid of 1866).
- 3) This plot is provided for Railroad Commission filing purposes only and should not be construed as a boundary survey.
- 4) See information filed in the office of West Company of Midland, which describes the reconstruction of this Section.

The CURRIE E STATE #4102 is located approximately 9.0 miles Southeast of GARDEN CITY, Texas.

Date Surveyed: May 21, 2013  
Weather: Warm, Breezy

LEGEND

- - Denotes Proposed Surface Well Location
- - Denotes Producing Well Location
- (S-27758) - Denotes General Land Office File No.
- - Denotes Lease Line



WADE MERTZ TEXAS R.P.L.S. NO. 4082

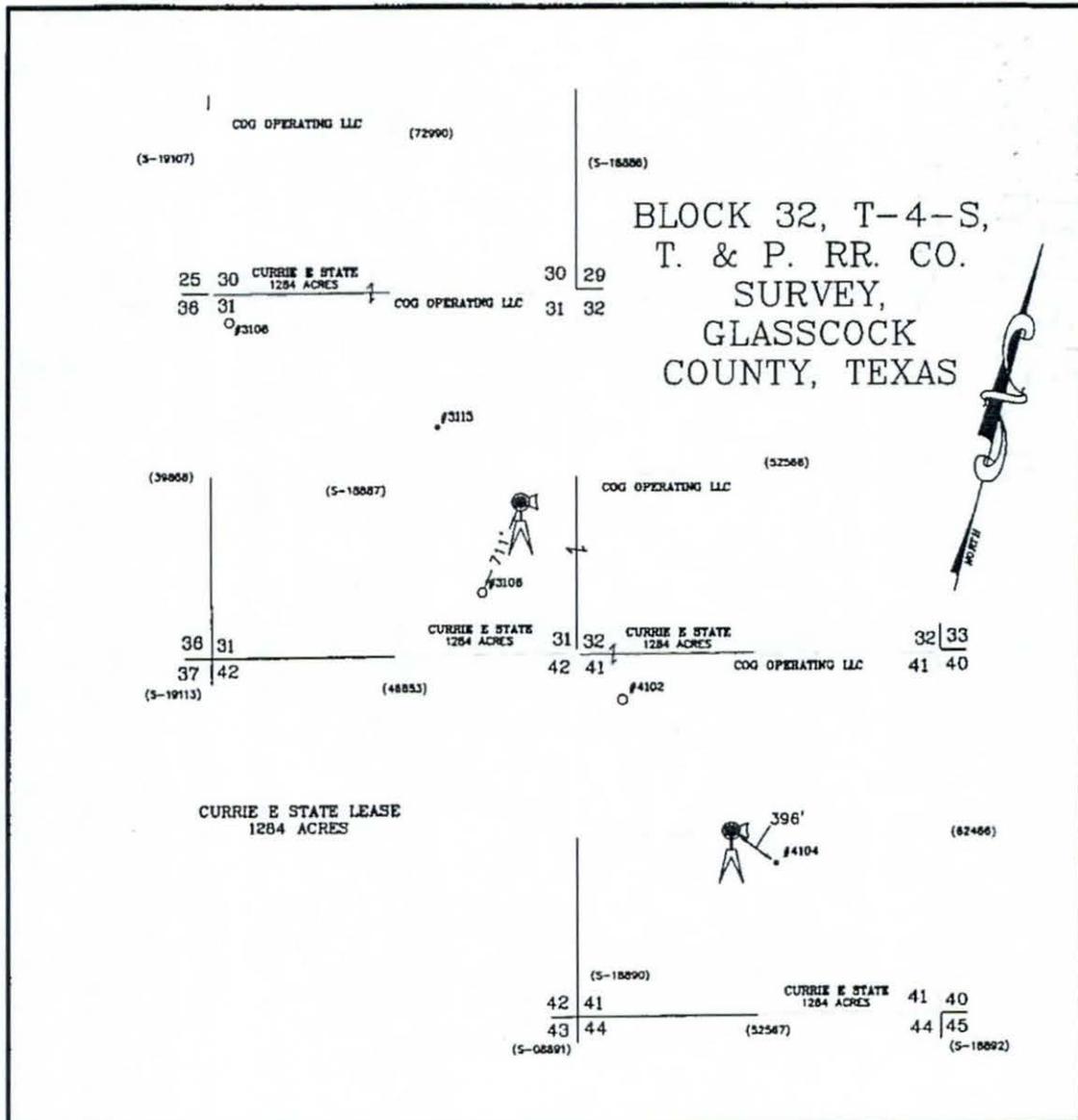
**WEST COMPANY**  
of Midland, Inc.

110 W. LOUISIANA, STE. 110  
MIDLAND TEXAS, 79701-3414  
OFFICE: (432)687-0865 FAX: (432)687-0868  
Web Page: www.team-west.com  
Email: survey@team-west.com

**COG OPERATING, LLC**

PROPOSED LOCATION OF THE  
**CURRIE E STATE #4102**  
660' FNL & 660' FWL  
1284 ACRES  
SECTION 41, BLOCK 32, T-4-S,  
T & P. RR. CO. SURVEY  
GLASSCOCK CO., TEXAS

Drawn By: D.E.H.	Date: May 24, 2013
Scale: 1"=1000'	Revised:
Sheet 1 of 1 sheets	Field Note Book: COG 1001/01
W.O. No: 2013-0796	By: [Signature]



**NOTES:**

- 1) Plane Coordinates and Bearings shown hereon are Lambert Grid and Conform to the "Texas Coordinate System", Texas Central Zone, North American Datum of 1927. Distances shown hereon are mean horizontal surface values.
- 2) Geodetic Coordinate shown hereon references the North American Datum of 1927, (Clarke Spheroid of 1866).
- 3) This plat is provided for Railroad Commission filing purposes only and should not be construed as a boundary survey.
- 4) See information filed in the office of West Company of Midland, which describes the reconstruction of this Survey.

LEGEND

- - Denotes Proposed Surface Well Location
- - Denotes Producing Well Location
- ⊙ - Denotes Windmill
- (S-2775B) - Denotes General Land Office File No.
- - - - - Denotes Lease Line



WADE MERTZ TEXAS R.P.L.S. No. 4082

**WEST COMPANY  
of Midland, Inc.**

110 W. LOUISIANA, STE. 110  
MIDLAND TEXAS, 79701-3414  
OFFICE: (432)687-0865 FAX: (432)687-0868  
Web Page: [www.team-west.com](http://www.team-west.com)  
Email: [survey@team-west.com](mailto:survey@team-west.com)

**COG OPERATING, LLC**

LEASE PLAT OF THE  
**CURRIE E STATE LEASE**  
1284 ACRES  
SW/4 SECTION 30, N/2 & SE/4 SECTION 31,  
SW/4 SECTION 32 & N/2 & SE/4 SECTION 41,  
BLOCK 32, T-4-S, T. & P. RR. CO SURVEY,  
GLASSCOCK CO., TEXAS

Drawn By: D.E.H.	Date: May 24, 2013
Scale: 1"=2000'	Revised:
Sheet 1 of 1 sheets	Field Note Book: COG 1001/01
W.O. No: 2013-0796	Buyer: COG OPERATING, LLC

© COPYRIGHT 2013 ALL RIGHTS RESERVED

File No. MF 112153  
RRC FORMS 173-35917

30.

Date Filed: 2-11-14

Jerry E. Patterson, Commissioner

By JK

near  
MF 112153

WO  
pooling

~ 450 feet  
away

**RAILROAD COMMISSION OF TEXAS**

Oil and Gas Division

Tracking No.: 101185

Status: Submitted

This facsimile W-2 was generated electronically from data submitted to the RRC

API No. 42- 173-35964

7 RRC District No

08

8. RRC Lease No

41832

**Oil Well Potential Test, Completion or Recompletion Report, and Log**

9 Well No

3207

1 FIELD NAME (as per RRC Records or Wildcat)

GARDEN CITY, S. (WOLFCAMP)

2 LEASE NAME

CURRIE "E" STATE

3 OPERATOR'S NAME (Exactly as shown on Form P-5, Organization Report)

COG OPERATING LLC

RRC Operator No

166150

10 County of well site

GLASSCOCK

4 ADDRESS

ONE CONCHO CENTER 600 W ILLINOIS AVE MIDLAND, TX 79701-0000

11. Purpose of filing

Initial Potential

Retest

Reclass

Well record only (Explain in remarks)

5 If Operator has changed within last 60 days, name former operator

6a. Location (Section, Block, and Survey)

32, 32 T4S, T&P RR CO/ CURRIE, J, A-711

6b Distance and direction to nearest town in this county

GARDEN CITY

12 If workover or reclass, give former field (with reservoir) & Gas ID or oil lease no

FIELD & RESERVOIR

GAS ID or OIL LEASE #

Oil-O Gas-G

Well #

N/A

13 Type of electric or other log run

Combo of Induction/Neutron/Density

14 Completion or recompletion date

01/29/2014

**SECTION I- POTENTIAL TEST DATA IMPORTANT: Test should be for 24 hours unless otherwise specified infield rules.**

15 Date of test 03/23/2014	16. No. of hours tested 24	17 Production method (Flowing, Gas Lift, Jetting, Pumping - Size & Type of pump) Pumping			18 Choke size
19 Production during Test Period	Oil - BBLS 28.0	Gas - MCF 54	Water - BBLS 36	Gas - Oil Ratio 1928	Flowing Tubing Pressure PSI
20 Calculated 24-Hour Rate	Oil - BBLS 28.0	Gas - MCF 54	Water - BBLS 36	Oil Gravity-API-60 <sup>o</sup> 41.9	Casing Pressure PSI
21. Was swab used during this test? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		22 Oil produced prior to test (New & Reworked wells) 1231.0		23. Injection Gas-Oil Ratio	
REMARKS: N/A					

INSTRUCTIONS: File an original and one copy of the completed Form W-2 in the appropriate RRC District Office within 30 days after completing a well and within 10 days after a potential test. If an operator does not properly report the results of a potential test within the 10-day period, the effective date of the allowable assigned to the well will not extend back more than 10 days before the W-2 was received in the District Office. (Statewide Rules 16 and 51) To report a completion or recompletion, fill in both sides of this form. To report a retest, fill in only the front side.

**WELL TESTERS CERTIFICATION**

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I conducted or supervised this test by observation of (a) meter readings or (b) the top and bottom gauges of each tank into which production was run during the test. I further certify that the potential test data shown above is true, correct, and complete, to the best of my knowledge.

Signature: Well Tester

Name of Company

RRC Representative

**OPERATOR'S CERTIFICATION**

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct and complete, to the best of my knowledge.

COG OPERATING LLC

Type or printed name of operator's representative

(432) 818-2249

Telephone: Area Code

Number

03/28/2014

Month Day Year

Regulatory Analyst

Title of Person

Vickie Gotcher

Signature

SECTION III DATA ON WELL COMPLETION AND LOG (Not Required on Retest)											
24. Type of Completion New Well <input checked="" type="checkbox"/> Deepening <input type="checkbox"/> Plug Back <input type="checkbox"/> Other <input type="checkbox"/>					25. Permit to Drill, Plug Back or Deepen DATE 07/25/2013 PERMIT NO 766903 Rule 37 Exception CASE NO.		26. Notice of Intention to Drill this well was filed in Name of COG OPERATING LLC			25. Permit to Drill, Plug Back or Deepen DATE 07/25/2013 PERMIT NO 766903 Rule 37 Exception CASE NO.	
27. Number of producing wells on this lease in this field (reservoir) including this well 7			28. Total number of acres in this lease 1284.0			Water Injection Permit PERMIT NO		Salt Water Disposal Permit PERMIT NO		Other PERMIT NO	
29. Date Plug Back, Deepening, Workover or Drilling Operations: Commenced 10/05/2013 Completed 10/17/2013		30. Distance to nearest well, Same Lease & Reservoir 1500.0		31. Location of well, relative to nearest lease boundaries 2181.0 Feet From North Line and 648.0 Feet from East Line of the CURRIE 'E' STATE Lease		32. Elevation (DF, RKB, RT, GR ETC.) 2537 GR		33. Was directional survey made other than inclination (Form W-12)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
34. Top of Pay	35. Total Depth 9387	36. P. B. Depth 9334	37. Surface Casing Determined by Field Rules <input type="checkbox"/>	Recommendation of T.D.W.R. Railroad Commission (Special) <input checked="" type="checkbox"/>	Dt. of Letter 07/23/2013	Dt. of Letter	38. Is well multiple completion? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
39. If multiple completion, list all reservoir names (completions in this well) and Oil Lease or Gas ID No. FIELD & RESERVOIR N/A					GAS ID or OIL LEASE #	Oil-G Gas-G	Well #				
40. Intervals Drilled by: Rotary Tools X Cable Tools	41. Name of Drilling Contractor					42. Is Cementing Affidavit Attached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
43. CASING RECORD (Report All Strings Set in Well)											
CASING SIZE	WT # FT.	DEPTH SET	MULTISTAGE TOOL DEPTH	TYPE & AMOUNT CEMENT (sacks)	HOLE SIZE	TOP OF CEMENT	SLURRY VOL cu. ft.				
9 5/8		2237		CL C 1790	12 1/4	0	3089.5				
5 1/2		9387		POZ/CL C 1070	8 3/4	4312	1522.0				
44. LINER RECORD											
Size	Top	Bottom	Sacks Cement	Screen							
N/A											
45. TUBING RECORD					46. Producing Interval (this completion) Indicate depth of perforation or open hole						
Size	Depth Set	Packer Set	From	6930	To	9170					
2 3/8	9228		From		To						
			From		To						
			From		To						
47. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.											
Depth Interval			Amount and Kind of Material Used								
6930.0		9170.0	536 BBLS 15% HCL, 29,980 BBLS WATER, 1,505,542# SAND								
48. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)											
Formations	Depth	Formations	Depth								
SPRABERRY	4610.0	ATOKA	9100.0								
WOLFCAMP	6205.0										
STRAWN	9025.0										
REMARKS: N/A											

Cementer: Fill in shaded areas.  
Operator: Fill in other items.

RAILROAD COMMISSION OF TEXAS  
Oil and Gas Division

Form W-15  
Cementing Report  
Rev. 4/1/83  
483-045

1. Operator's Name (As shown on Form P-5, Organization Report) <b>COG OPERATING LLC</b>	2. RRC Operator No. <b>166150</b>	3. RRC District No. <b>08</b>	4. County of Well Site <b>GLASSCOCK</b>
5. Field Name (Wildcat or exactly as shown on RRC Records) <b>GARDEN CITY, S. (WOLF CAMP)</b>	6. API No. <b>42-173-35964</b>	7. Drilling Permit No. <b>766903</b>	
8. Lease Name <b>CURRIE E STATE</b>	9. Rule 37 Case No.	10. Oil Lease/Gas ID No. <b>41832</b>	11. Well No. <b>3207</b>

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date		10-6-13					
13. • Drilled Hole Size		12 1/4"					
• Est. % wash or hole enlargement							
14. Size of casing (in. O.D.)		9 5/8"					
15. Top of liner (ft.)							
16. Setting depth (ft.)		2,237'					
17. Number of centralizers used		18					
18. Hrs. Waiting on cement before drill-out		12					
1 <sup>st</sup> Slurry	19. API cement used: No. of sacks ▶	1540					
	Class ▶	C					
	Additives ▶	REMARKS 1					
2 <sup>nd</sup> Slurry	No. of sacks ▶	250					
	Class ▶	C					
	Additives ▶	.5% CACL					
3 <sup>rd</sup> Slurry	No. of sacks ▶						
	Class ▶						
	Additives ▶						
1 <sup>st</sup>	20. Slurry pumped: Volume (cu. ft.) ▶	2757					
	Height (ft.) ▶	8802					
2 <sup>nd</sup>	Volume (cu. ft.) ▶	332.5					
	Height (ft.) ▶	1062					
3 <sup>rd</sup>	Volume (cu. ft.) ▶						
	Height (ft.) ▶						
Total	Volume (cu. ft.) ▶						
	Height (ft.) ▶						
21. Was cement circulated to ground surface (or bottom of cellar) outside casing?		YES					

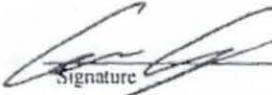
Remarks 1 5% SALT+1/4 PPS CELLO FLAKE+.1%FL-52+4% GEL.  
Remarks 2 CIRCULATED 627 SKS TO PIT / 200 BBLs

CEMENTING TO PLUG AND ABANDON	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
23. Cementing date								
24. Size of hole or pipe plugged (in.)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu. Ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lb/gal)								
31. Type cement								

CEMENTER'S CERTIFICATE: I declare under penalties in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this Certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my Supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

Cameron Canterbury Cement supervisor  
Name and title of cementer's representative

Baker Hughes Industries  
Cementing Company

  
Signature

P.O. Box 4717  
Address

Odessa, Texas 79760  
City, State, Zip Code

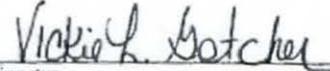
(432) 381-2301  
Tel: Area Code Number

Date: mo. day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this Certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

VICKIE L. GOTCHER  
Typed or printed name of operator's representative

REG. ANALYST  
Title

  
Signature

600 W. ILLINOIS AVE, MIDLAND, TX 79701  
Address City, State, Zip Code

432-518-2249  
Tel: Area Code Number

10/15/13  
Date: mo. day yr.

Instructions to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging). For offshore operations, see the requirements of Rule 13 (c).

- A. What to file. An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following.
- An initial oil or gas completion report, Form W-2 or G-1, as required by Statewide or special field rates;
  - Form W-4, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
  - Form W-3, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete Form W-15, in addition to Form W-3, to show any casing cemented in the hole.
- B. Where to file. The appropriate Commission District Office for the county in which the well is located.
- C. Surface Casing. An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Committee.
- D. Centralizers. Surface Casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In Non-deviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.
- E. Exceptions and alternative casing programs. The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. An operator must obtain approval of any exception before beginning casing and cementing operations.
- F. Intermediate and production casing. For specific technical requirements, operators should consult Statewide Rule 13 (3) and (4).
- G. Plugging and abandoning. Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

Cement: Fill in shaded areas.  
Operator: Fill in other items.

RAILROAD COMMISSION OF TEXAS  
Oil and Gas Division

Form W-15  
Cementing Report  
Rev. 4/1/83  
483-045

1. Operator's Name (As shown on Form P-5, Organization Report) COG OPERATING LLC	2. RRC Operator No. 166150	3. RRC District No. 08	4. County of Well Site GLASSCOCK
5. Field Name (Wildcat or exactly as shown on RRC Records) GARDEN CITY, S. (WOLFCAMP)	6. API No. 42-173-35964	7. Drilling Permit No. 766903	
8. Lease Name CURRIE STATE	9. Rule 37 Case No.	10. Oil Lease/Gas ID No. 41832	11. Well No. 3207

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date				10/16/2013			
13. • Drilled Hole Size				8 3/4"			
• Est. % wash or hole enlargement							
14. Size of casing (in. O.D.)				5 1/2"			
15. Top of liner (ft.)							
16. Setting depth (ft.)				9,387'			
17. Number of centralizers used				39			
18. Hrs. Waiting on cement before drill-out				12			
1 <sup>st</sup> Slurry	19. API cement used: No. of sacks ▶			400			
	Class ▶			60 POZ 40 C			
	Additives ▶			Remarks 1			
2 <sup>nd</sup> Slurry	No. of sacks ▶			670			
	Class ▶			50 H 50 POZ :2GEL			
	Additives ▶			Remarks 2			
3 <sup>rd</sup> Slurry	No. of sacks ▶						
	Class ▶						
	Additives ▶						
1st	20. Slurry pumped: Volume (cu. ft.) ▶			680			
	Height (ft.) ▶			2692			
2nd	Volume (cu. ft.) ▶			842			
	Height (ft.) ▶			3333			
3rd	Volume (cu. ft.) ▶						
	Height (ft.) ▶						
Total	Volume (cu. ft.) ▶			1522			
	Height (ft.) ▶			6025			
				NO			

(22) Remarks #1 0.40 %FL-62+0.50 % FL-52A+0.50 % SMS+0.05 % R-3+2.0 #SK KOLSEAL+0.125 #SK CELLO FLAKE

(23) Remarks #2 2% GEL+0.20 %FL-52A+0.005 GPS FP13L

CIRCULATED TO PIT BBL SKS

CEMENTING TO PLUG AND ABANDON	PLUG #1	PLUG #2	PLUG #3	PL #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
23. Cementing date								
24. Size of hole or pipe plugged (in.)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu. ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lb/gal)								
31. Type cement								

CEMENTER'S CERTIFICATE: I declare under penalties in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this Certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my Supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

Rene Martinez--Service Supervisor

Name and title of cementer's representative

Baker Hughes Pressure Pumping

Cementing Company

[Signature]  
Signature

P.O. Box 4717

Address

Odessa, Texas 79760

City, State, Zip Code

(432) 381-2301

Tel: Area Code Number

10/16/2013

Date: mo. Day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this Certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

VICKIE L. GOTCHER

Typed or printed name of operator's representative

REG. ANALYST

Title

[Signature]  
Signature

600 W ILLINOIS AVE, MIDLAND, TX 79701

Address

City, State, Zip Code

432-818-2349

Tel: Area Code Number

10/29/13

Date: mo. day yr.

Instructions to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging). For offshore operations, see the requirements of Rule 13 (c).

A. What to file. An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- An initial oil or gas completion report, Form W-2 or G-1, as required by Statewide or special field rates,
- Form W-4, Application for Multiple Completion, if the well is a multiple parallel casing completion, and
- Form W-3, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete Form W-15, in addition to Form W-3, to show any casing cemented in the hole.

B. Where to file. The appropriate Commission District Office for the county in which the well is located.

C. Surface Casing. An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Committee.

D. Centralizers. Surface Casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In Non-deviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. Exceptions and alternative casing programs. The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. An operator must obtain approval of any exception before beginning casing and cementing operations.

F. Intermediate and production casing. For specific technical requirements, operators should consult Statewide Rule 13 (3) and (4).

G. Plugging and abandoning. Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

**RAILROAD COMMISSION OF TEXAS  
OIL AND GAS DIVISION**

Form W-12  
(1-1-71)

<b>INCLINATION REPORT</b> (One Copy Must Be Filed With Each Completion Report.)		6. RRC District 08
1. FIELD NAME (as per RRC Records or Wildcat) GARDEN CITY 5 (WOLFCAMP)		7. RRC Lease Number. (Oil completions only) 41832
2. LEASE NAME Currie 'E' State		8. Well Number 3207
3. OPERATOR COG OPERATING, LLC		9. RRC Identification Number (Gas completions only)
4. ADDRESS ONE PONCHO CENTER WOOD-ILLINOIS AVE MIDLAND, TX 79701		10. County GLASSCOCK
5. LOCATION (Section, Block, and Survey) Sec. 32, Blk 32 T4S, T+P RR Co Survey A-711		

**RECORD OF INCLINATION**

*11. Measured Depth (feet)	12. Course Length (Hundreds of feet)	*13. Angle of Inclination* (Degrees)	14. Displacement per Hundred Feet (Sine of Angle X100)	15. Course Displacement (feet)	16. Accumulative Displacement (feet)
232	2.32	0.10	0.17	0.40	0.40
683	4.51	1.20	2.09	9.45	9.85
1160	4.77	0.90	1.57	7.49	17.34
1635	4.75	0.60	1.05	4.97	22.32
2110	4.75	0.50	0.87	4.15	26.46
2605	4.95	1.00	1.75	8.64	35.10
3019	4.14	0.80	1.40	5.78	40.88
3493	4.74	0.60	1.05	4.96	45.84
3712	2.19	0.60	1.05	2.29	48.14
3997	2.85	1.20	2.09	5.97	54.11
4187	1.90	1.70	2.97	5.64	59.74
4535	3.48	2.80	4.88	17.00	76.74
4680	1.45	3.20	5.58	8.09	84.84
5123	4.43	2.20	3.84	17.01	101.84
5506	3.83	3.00	5.23	20.04	121.89
5631	1.25	1.70	2.97	3.71	125.40

If additional space is needed, use the reverse side of this form.

17. Is any information shown on the reverse side of this form?  yes  no
18. Accumulative total displacement of well bore at total depth of 9069 feet = 196.50 feet.
- \*19. Inclination measurements were made in -  Tubing  Casing  Open hole  Drill Pipe
20. Distance from surface location of well to the nearest lease line 648 feet.
21. Minimum distance to lease line as prescribed by field rules 467 feet.
22. Was the subject well at any time intentionally deviated from the vertical in any manner whatsoever? NO
- (If the answer to the above question is "yes", attach written explanation of the circumstances.)

**INCLINATION DATA CERTIFICATION**

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have personal knowledge of the inclination data and facts placed on both sides of this form and that such data and facts are true, correct, and complete to the best of my knowledge. This certification covers all data as indicated by asterisks (\*) by the item numbers on this form.

Signature of Authorized Representative: [Signature]  
 Name of Person and Title (Type or Print): JUSTIN BROWN OPERATIONS MGR.  
 Name of Company: SAVANNAH DRILLING  
 Telephone: 432-614-1055  
 Area Code: \_\_\_\_\_

**OPERATOR CERTIFICATION**

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have personal knowledge of all information presented in this report, and that all data presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all data and information presented herein except inclination data as indicated by asterisks (\*) by the item numbers on this form.

Signature of Authorized Representative: [Signature]  
 Name of Person and Title (Type or Print): VICKIE L. GOTCHER REG. ANALYST  
 Name of Company: COG OPERATING LLC  
 Operator: \_\_\_\_\_  
 Telephone: 432 818-2249  
 Area Code: \_\_\_\_\_

Railroad Commission Use Only:

Approved By: \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

\* Designates items certified by company that conducted the inclination surveys.



**APPLICATION FOR ALTERNATE SURFACE CASING PROGRAM**  
**Statewide Rule 13(b)(2)(g)**  
**RRC District 08**

Operator's Name and Address:  COG OPERATING LLC 550 W. TEXAS AVE., STE.100 MIDLAND, TEXAS 79701	Lease: CURRIE 'E' STATE	Well No. 3207
	Field: GARDEN CITY, S. (WOLFCAMP)	
	Drilling Permit No.: 766903	
	County: GLASSCOCK	RRC District: 08
	Location: SEC 32, BLK 32 T4S, T&P RR CO, A-711	
Proposed TD: 9500		

Distance and Direction from nearest town: 9 MILES SE FROM GARDEN CITY

Proposed injection or disposal well?  Yes  No NOTE: Special conditions may apply. See PROVISIONS below.

Usable-quality water strata (as determined by TCEQ "Waterboard" letter) occur to a depth of <u>350' + 20'</u> ft, and from _____ ft to _____ ft, and from _____ ft to _____ ft.	Note: Please submit copy of TCEQ "Waterboard" letter with this request. Request cannot be processed without this information.
---	---

Distance and direction of nearest water well (within 1/4 mile): NO WATER WELLS WITH-IN A 1/4 MILE RADIUS

Type of water well (domestic, public, irrigation, stock, etc.): \_\_\_\_\_ Depth: \_\_\_\_\_

**Proposed Casing and Cementing Program**

Note: You may attach a wellbore diagram or cementing proposal to this application.

This application is for (check applicable boxes):  Short surface casing  excess surface casing  no surface casing

The proposed surface casing depth: 2200' Multi-Stage tool depth (if applicable): N/A

Intermediate or production casing depth: 9500' Multi-Stage tool depth (if applicable): N/A

Centralizer number and placement: Total 18 - 1-pin end top jt., 1-above/below DV tool, 1-every 4<sup>th</sup> jt to top, 1- 7' above shoe

Does the cement across the critical zone have 72-hr compressive strength of at least 1,200 psi?  Yes  No

Does the filler cement have 24-hr compressive strength of at least 250 psi?  Yes  No

Do you plan on circulating cement to the surface on all casing strings protecting usable-quality water?  Yes  No

Reason for this request: to contain pressure if a deeper high-pressure zone is encountered.

**PROVISIONS APPLICABLE TO RULE 13 EXCEPTIONS:**

- Caution: If this well is being drilled for injection or disposal purposes, an injection or disposal well permit may be denied unless surface casing is set and cemented through all zones of usable-quality groundwater.
- Centralizers must be used through all usable-quality waters. Refer to Rule 13(b)(2)(F).
- Notify District Office 8 hours prior to setting casing.

Signature: Vickie L. Gotcher Name: Vickie L. Gotcher Date: 09/26/2013 Phone: 432-818-2249

**IF CEMENT IS NOT CIRCULATED TO THE GROUND SURFACE AS REQUIRED BY THIS EXCEPTION, YOU MUST IMMEDIATELY CONTACT THE DISTRICT 7C OFFICE AT 325-657-7450, AND FOLLOW THE PROCEDURES AS SET OUT IN RULE 13(B)(2)(g)(III) OR AS RECOMMENDED BY THE DISTRICT OFFICE.**

RRC Use Only▶	RRC District Office Action:
	<input type="checkbox"/> Approved <input checked="" type="checkbox"/> Approved as Modified <input type="checkbox"/> Denied By: <u>[Signature]</u> Date: <u>9-27-13</u>
	Remarks/Modifications: <u>Critical Zone Slurry required across the water board</u>

LLIBURTON

COMPENSATED NEUTRON  
GAMMA RAY/CCL  
LOG

TR # 101185

TIGHT HOLE

GLASSCOCK STATE TEXAS

Company COG OPERATING LLC  
Well CURRIE E STATE 3207  
Field GARDEN CITY, SOUTH (Wolfcamp)  
County GLASSCOCK State TEXAS

API No: 42-173-35964 Serv #: 900832447 Other Services  
Location: 1930' FWL & 467' FSL  
SEC 32, BLK 32, T-4-S  
T&P RR CO SURVEY

RCBL

Item	County	Sec	Twp	Rge		
datum		GROUND LEVEL		Elevation	2537'	Elevation
rd From		KB	17	Ft above perm datum	KB	2554'
ured From		KB			DF	2553'
					GL	2537'
Logged		21 OCT 2013		Type Fluid in Hole	WATER	
		ONE		Density of Fluid	N/A	
or		9387'		Fluid Level	FULL	
er		9334'		Cement Top Est. Logged	4312'	
ged Interval		9332'		Equipment / Location	12037005 / ODESSA	
erval		4000'		Recorded by	B McCLAIN	
ed Temp		NOT RECORDED		Witnessed by	MR BOB HOWARD	
DATA		Surface	Protection	Production	Liner	
		String	String	String		

Strength	psi@	hrs	psi@	hrs	psi@	hrs	psi@	hrs
me								
Weight								

r	Borehole Record				Casing & Tubing Record			
	Bit	From	To	Size	Weight	From	To	
	12 1/8"	SURFACE	2237'	9-825	76#	SURFACE	2537'	
	7 1/8"	2237'	9387'	7 5/8"	17#	SURFACE	9387'	

Groundwater  
Advisory Unit

GROUNDWATER PROTECTION DETERMINATION

Date July 23, 2013

GAU File No.: SC- 6588

\*\*\*\*\* EXPEDITED APPLICATION \*\*\*\*\*

API Number 17300000

Attention: VICKIE L GOTCHER

RRC Lease No. 041832

SC\_166150\_17300000\_041832\_6588.pdf

--Measured--

Digital Map Location:

1980 ft FWL

X-coord/Long 101.33300

467 ft FSL

Y-coord/Lat 31.82560

COG OPERATING LLC  
ONE CONCHO CTR  
600 W ILLINOIS AVE  
MIDLAND TX 79701

MRL:SECTION

Datum 27

Zone

P-5# 166150

County GLASSCOCK

Lease & Well No. CURRIE -E- STATE #3207&ALL

Purpose ND

Location SUR-T&P, BLK-32, TSHP-4S, SEC-32, -- [TD=9500], [RRC 8],

To protect usable-quality groundwater at this location, the Groundwater Advisory Unit of the Texas Railroad Commission recommends:

The interval from the land surface to 20 feet below the base of Cretaceous-age beds must be protected. The base of the Cretaceous is estimated to occur at a depth of 350 feet.

This recommendation is applicable to all wells drilled in this SECTION 32 ON THIS LEASE.

Please send THE ELECTRIC log when it is available.

Note: Unless stated otherwise, this recommendation is intended to apply only to the subject well and not for area-wide use. This recommendation is intended for normal drilling, production, and plugging operations only. It does not apply to saltwater disposal operation into a nonproductive zone (RRC Form W-14).

If you have any questions, please contact us at 512-463-2741, [gau@rrc.state.tx.us](mailto:gau@rrc.state.tx.us) or by mail

Sincerely,

Digitally signed by George Dunfield  
DN: cn=US, st=TEXAS, te=Austin, ou=Railroad  
Commission of Texas, ou=Groundwater  
Advisory Unit, cn=George Dunfield,  
email=george.dunfield@rrc.state.tx.us  
Date: 2013.07.23 16:28:29 -0500

George Dunfield, P.G.

GEOLOGIST SEAL



Geologist, Groundwater Advisory Unit  
Oil & Gas Division

The seal appearing on this document was authorized by George Dunfield on 7/23/2013  
Note: Alteration of this electronic document will invalidate the digital signature.

STATEMENT OF PRODUCTIVITY OF ACREAGE  
ASSIGNED TO PRORATION UNITS

Form P-15

Tracking No.: 101185

This facsimile P-15 was generated electronically  
from data submitted to the RRC.

The undersigned states that he is authorized to make this statement; that he has knowledge of the facts concerning the COG OPERATING LLC OPERATOR,  
CURRIE "E" STATE LEASE, No. 3207 WELL; that such well is  
completed in the GARDEN CITY, S. (WOLFCAMP) Field, GLASSCOCK County,  
Texas and that the acreage claimed, and assigned to such well for proration purposes as  
authorized by special rule and as shown on the attached certified plat embraces \_\_\_\_\_  
160.0 acres which can reasonably be considered to be productive of hydrocarbons.

- CERTIFICATE -

*I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge,*

Date 03/28/2014 Signature Vickie Gotcher  
Telephone (432) 818-2249 Title Regulatory Analyst  
AREA CODE

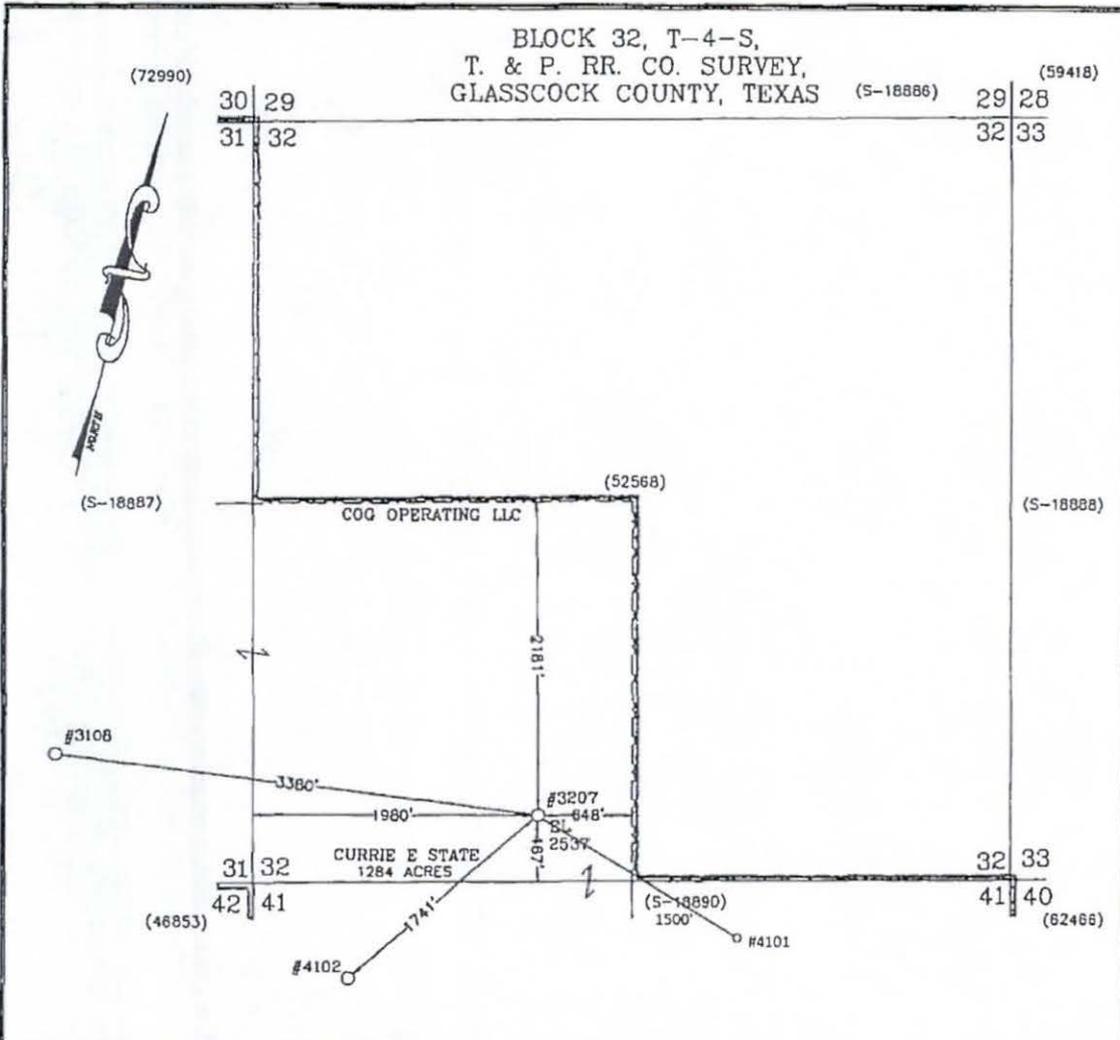
P-15 ACREAGE LIST  
CURRIE E STATE #3207  
API # 42-173-35964  
TOTAL LSE ACRES 1284 ac

WELLS	API#	ACRES
Currie E State #3102	173-35108	160
Currie E State #3108	173-35472	160
Currie E State #3113	173-34028	160
Currie E State #3207	173-35964	160
Currie E State #4101	173-35870	160
Currie E State #4102	173-35917	160
Currie E State #4104	173-35662	160
	PRORATED TOTAL	1120





BLOCK 32, T-4-S,  
T. & P. RR. CO. SURVEY,  
GLASSCOCK COUNTY, TEXAS



Coordinate Table

WELL	PLANE COORDINATE	GEODETIC COORDINATE (NAD'27)	GEO. COORD. - DEC. DEG. (NAD'27)	GEO. COORD. - DEC. DEG. (NAD'83)
CURRIE E STATE #3207	X = 1,689,640.5	Latitude = 31°49'32.225" N	Latitude = 31.825618017° N	Latitude = 31.825753370° N
	Y = 786,603.4	Longitude = 101°19'57.221" W	Longitude = 101.332561339° W	Longitude = 101.332955942° W

NOTES:

- 1) Plane Coordinates and Bearings shown hereon are Lambert Grid and Conform to the "Texas Coordinate System", Texas Central Zone, North American Datum of 1927. Distances shown hereon are mean horizontal surface values.
- 2) Geodetic Coordinate shown hereon references the North American Datum of 1927, (Clarke Spheroid of 1866).
- 3) This plot is provided for Railroad Commission filing purposes only and should not be construed as a boundary survey.
- 4) See information filed in the office of West Company of Midland, which describes the reconstruction of this Section.

The CURRIE E STATE #3207 is located approximately 9 miles Southeast of GARDEN CITY, Texas.

Date Surveyed: July 2, 2013  
Weather: Sunny, Calm

LEGEND

- - Denotes Proposed Surface Well Location
- - Denotes Producing Well Location
- (S-27758) - Denotes General Land Office File No.
- - Denotes Lease Line



*Wade A. Mertz*  
WADE MERTZ TEXAS R.P.L.S. NO. 4082

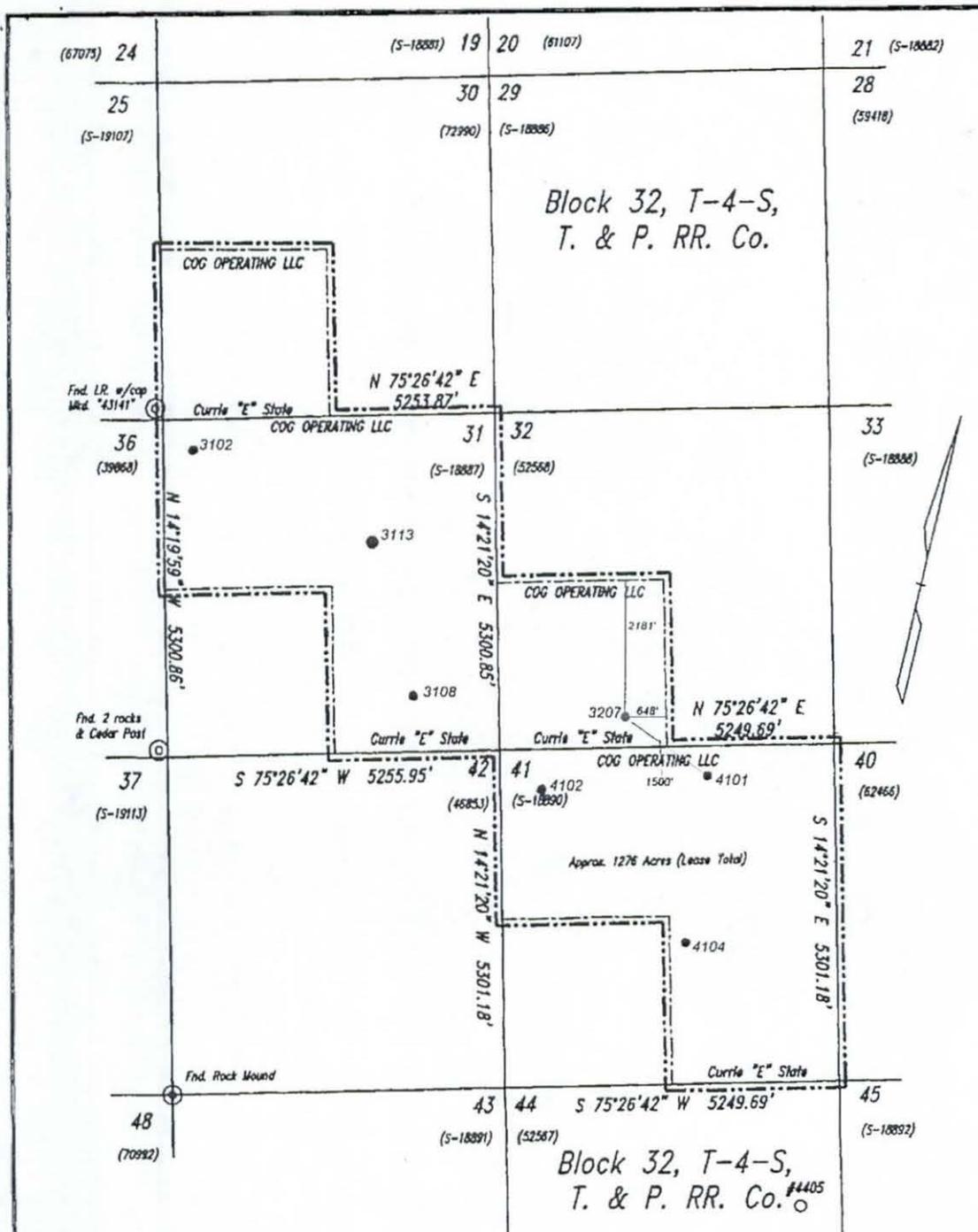
**WEST COMPANY**  
of Midland, Inc.

110 W. LOUISIANA, STE. 110  
MIDLAND TEXAS, 79701-3414  
OFFICE: (432)687-0865 FAX: (432)687-0868  
Web Page: www.team-west.com  
Email: survey@team-west.com

**COG OPERATING, LLC**

PROPOSED LOCATION OF THE  
CURRIE E STATE #3207  
467' FSL & 1980' FWL  
SECTION 32, BLOCK 32, T-4-S,  
T. & P. RR. CO. SURVEY  
GLASSCOCK CO., TEXAS

Drawn By: D.E.H.	Date: July 18, 2013
Scale: 1"=1000'	Revised:
Sheet 1 of 1 sheets	Field Note Book: COG 1001/07
W.O. No: 2013-1073	Proj. No: 2013-001, 2013-002, 2013-003, 2013-004, 2013-005, 2013-006, 2013-007, 2013-008, 2013-009, 2013-010, 2013-011, 2013-012, 2013-013, 2013-014, 2013-015, 2013-016, 2013-017, 2013-018, 2013-019, 2013-020, 2013-021, 2013-022, 2013-023, 2013-024, 2013-025, 2013-026, 2013-027, 2013-028, 2013-029, 2013-030, 2013-031, 2013-032, 2013-033, 2013-034, 2013-035, 2013-036, 2013-037, 2013-038, 2013-039, 2013-040, 2013-041, 2013-042, 2013-043, 2013-044, 2013-045, 2013-046, 2013-047, 2013-048, 2013-049, 2013-050, 2013-051, 2013-052, 2013-053, 2013-054, 2013-055, 2013-056, 2013-057, 2013-058, 2013-059, 2013-060, 2013-061, 2013-062, 2013-063, 2013-064, 2013-065, 2013-066, 2013-067, 2013-068, 2013-069, 2013-070, 2013-071, 2013-072, 2013-073, 2013-074, 2013-075, 2013-076, 2013-077, 2013-078, 2013-079, 2013-080, 2013-081, 2013-082, 2013-083, 2013-084, 2013-085, 2013-086, 2013-087, 2013-088, 2013-089, 2013-090, 2013-091, 2013-092, 2013-093, 2013-094, 2013-095, 2013-096, 2013-097, 2013-098, 2013-099, 2013-100, 2013-101, 2013-102, 2013-103, 2013-104, 2013-105, 2013-106, 2013-107, 2013-108, 2013-109, 2013-110, 2013-111, 2013-112, 2013-113, 2013-114, 2013-115, 2013-116, 2013-117, 2013-118, 2013-119, 2013-120, 2013-121, 2013-122, 2013-123, 2013-124, 2013-125, 2013-126, 2013-127, 2013-128, 2013-129, 2013-130, 2013-131, 2013-132, 2013-133, 2013-134, 2013-135, 2013-136, 2013-137, 2013-138, 2013-139, 2013-140, 2013-141, 2013-142, 2013-143, 2013-144, 2013-145, 2013-146, 2013-147, 2013-148, 2013-149, 2013-150, 2013-151, 2013-152, 2013-153, 2013-154, 2013-155, 2013-156, 2013-157, 2013-158, 2013-159, 2013-160, 2013-161, 2013-162, 2013-163, 2013-164, 2013-165, 2013-166, 2013-167, 2013-168, 2013-169, 2013-170, 2013-171, 2013-172, 2013-173, 2013-174, 2013-175, 2013-176, 2013-177, 2013-178, 2013-179, 2013-180, 2013-181, 2013-182, 2013-183, 2013-184, 2013-185, 2013-186, 2013-187, 2013-188, 2013-189, 2013-190, 2013-191, 2013-192, 2013-193, 2013-194, 2013-195, 2013-196, 2013-197, 2013-198, 2013-199, 2013-200, 2013-201, 2013-202, 2013-203, 2013-204, 2013-205, 2013-206, 2013-207, 2013-208, 2013-209, 2013-210, 2013-211, 2013-212, 2013-213, 2013-214, 2013-215, 2013-216, 2013-217, 2013-218, 2013-219, 2013-220, 2013-221, 2013-222, 2013-223, 2013-224, 2013-225, 2013-226, 2013-227, 2013-228, 2013-229, 2013-230, 2013-231, 2013-232, 2013-233, 2013-234, 2013-235, 2013-236, 2013-237, 2013-238, 2013-239, 2013-240, 2013-241, 2013-242, 2013-243, 2013-244, 2013-245, 2013-246, 2013-247, 2013-248, 2013-249, 2013-250, 2013-251, 2013-252, 2013-253, 2013-254, 2013-255, 2013-256, 2013-257, 2013-258, 2013-259, 2013-260, 2013-261, 2013-262, 2013-263, 2013-264, 2013-265, 2013-266, 2013-267, 2013-268, 2013-269, 2013-270, 2013-271, 2013-272, 2013-273, 2013-274, 2013-275, 2013-276, 2013-277, 2013-278, 2013-279, 2013-280, 2013-281, 2013-282, 2013-283, 2013-284, 2013-285, 2013-286, 2013-287, 2013-288, 2013-289, 2013-290, 2013-291, 2013-292, 2013-293, 2013-294, 2013-295, 2013-296, 2013-297, 2013-298, 2013-299, 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2014-000, 2014-001, 2014-002, 2014-003, 2014-004, 2014-005, 2014-006, 2014-007, 2014-008, 2014-009, 2014-010, 2014-011, 2014-012, 2014-013, 2014-014, 2014-015, 2014-016, 2014-017, 2014-018, 2014-019, 2014-020, 2014-021, 2014-022, 2014-023, 2014-024, 2014-025, 2014-026, 2014-027, 2014-028, 2014-029, 2014-030, 2014-031, 2014-032, 2014-033, 2014-034, 2014-035, 2014-036, 2014-037, 2014-038, 2014-039, 2014-040, 2014-041, 2014-042, 2014-043, 2014-044, 2014-045, 2014-046, 2014-047, 2014-048, 2014-049, 2014-050, 2



Note: Survey Reconstruction filed in the Office of Luchini and Mertz Land Surveying Company.  
 Note: All bearings and coordinates shown are based on the Texas Coordinate System of 1827, Central Zone.  
 A combined grid factor of 0.99996532 must be divided into all distances to obtain a true horizontal distance.  
 Note: Example: (S-28999) indicates General Land Office file number.

STATE OF TEXAS  
 REGISTERED  
 STEVEN L. PREWITT  
 5106  
 PROFESSIONAL LAND SURVEYOR

*Steven L. Prewitt*

March 2011  
 Currie "E" State Lease

PROFESSIONAL LAND SURVEYORS  
 LUCHINI & MERTZ  
 Boundary Surveys

Railroad Commission Permit Plat

COG OPERATING LLC  
 Currie "E" State Lease  
 the SW/4 of Section 30, the N/2 & SE/4 of Section 31,  
 the SW/4 of Section 32 & the N/2 & SE/4 of Section 41,  
 Block 32, T-4-S, T. & P. RR. Co.,  
 Glasscock County, Texas

Scale: 1" = 2000'

File No. MF 112153  
RRC FORMS 173-35964

Date Filed: 3-28-14  
Jerry E. Patterson, Commissioner

By JEP

MF 112153

Unit 6684

## RAILROAD COMMISSION OF TEXAS

Oil and Gas Division

Tracking No.: 88539

Status: Approved

This facsimile W-2 was generated electronically  
from data submitted to the RRC.

API No. 42- 173-35870

7 RRC District No  
08

## Oil Well Potential Test, Completion or Recompletion Report, and Log

8 RRC Lease No  
41832

1. FIELD NAME (as per RRC Records or Wildcat) GARDEN CITY, S. (WOLFCAMP)		2. LEASE NAME CURRIE "E" STATE		9. Well No. 4101	
3. OPERATOR'S NAME (Exactly as shown on Form P-5, Organization Report) COG OPERATING LLC		RRC Operator No 166150		10. County of well site GLASSCOCK	
4. ADDRESS ONE CONCHO CENTER 600 W ILLINOIS AVE MIDLAND, TX 79701-0000				11. Purpose of filing	
5. If Operator has changed within last 60 days, name former operator				Initial Potential <input checked="" type="checkbox"/>	
				Retest <input type="checkbox"/>	
				Reclass <input type="checkbox"/>	
				Well record only (Explain in remarks) <input type="checkbox"/>	
6a. Location (Section, Block, and Survey) 41, 32 T4S, T&P RR CO, A-82		6b. Distance and direction to nearest town in this county 9.5 MILES SE FROM GARDEN CITY			
12. If workover or reclass, give former field (with reservoir) & Gas ID or oil lease no. FIELD & RESERVOIR		GAS ID or OIL LEASE #		Oil-G Gas-G	
N/A				Well #	
13. Type of electric or other log run Acoustic logs (Sonic and Porosity logs)				14. Completion or recompletion date 08/26/2013	

## SECTION I- POTENTIAL TEST DATA IMPORTANT: Test should be for 24 hours unless otherwise specified infield rules.

15. Date of test 10/24/2013		16. No. of hours tested 24		17. Production method (Flowing, Gas Lift, Jetting, Pumping, Size & Type of pump) Pumping		18. Choke size	
19. Production during Test Period		Oil - BBLS 59.0		Gas - MCF 58		Water - BBLS 77	
				Gas - Oil Ratio 983		Flowing Tubing Pressure PSI	
20. Calculated 24-Hour Rate		Oil - BBLS 59.0		Gas - MCF 58		Water - BBLS 77	
				Oil Gravity-API-60° 42.5		Casing Pressure PSI	
21. Was swab used during this test? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>				22. Oil produced prior to test (New & Reworked wells) 1165.0		23. Injection Gas-Oil Ratio	
REMARKS: N/A							

INSTRUCTIONS: File an original and one copy of the completed Form W-2 in the appropriate RRC District Office within 30 days after completing a well and within 10 days after a potential test. If an operator does not properly report the results of a potential test within the 10-day period, the effective date of the allowable assigned to the well will not extend back more than 10 days before the W-2 was received in the District Office. (Statewide Rules 16 and 51) To report a completion or recompletion, fill in both sides of this form. To report a retest, fill in only the front side.

## WELL TESTERS CERTIFICATION

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I conducted or supervised this test by observation of (a) meter readings or (b) the top and bottom gauges of each tank into which production was run during the test. I further certify that the potential test data shown above is true, correct, and complete, to the best of my knowledge.

Signature Well Tester

Name of Company

RRC Representative

## OPERATOR'S CERTIFICATION

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct and complete, to the best of my knowledge.

COG OPERATING LLC

Type or printed name of operator's representative

(432) 818-2249 06/16/2014

Telephone Area Code Number Month Day Year

Regulatory Analyst

Title of Person  
Vickie Gotcher

Signature

SECTION III		DATA ON WELL COMPLETION AND LOG (Not Required on Retest)					
24 Type of Completion New Well <input checked="" type="checkbox"/> Deepening <input type="checkbox"/> Plug Back <input type="checkbox"/> Other <input type="checkbox"/>				25 Permit to Drill, Plug Back or Deepen DATE 05/29/2013 PERMIT NO 763407 Rule 37 Exception CASE NO.		Water Injection Permit PERMIT NO	
26 Notice of Intention to Drill this well was filed in Name of COG OPERATING LLC				Salt Water Disposal Permit PERMIT NO		Other PERMIT NO	
27 Number of producing wells on this lease in this field (reservoir) including this well 6		28 Total number of acres in this lease 1276.0		30 Distance to nearest well, Same Lease & Reservoir 2619.0			
29 Date Plug Back, Deepening, Workover or Drilling Operations 06/24/2013		Commenced 07/24/2013		Completed			
31 Location of well, relative to nearest lease boundaries 1980.0 Feet From East Line and 467.0 Feet from North Line of the CURRIE 'E' STATE Lease				33 Was directional survey made other than inclination (Form W-12)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
32 Elevation (DF RKB, RT GR ETC) 2530 GR		34 Top of Pay 6980		35 Total Depth 9407		36 P B Depth 9346	
		37 Surface Casing Determined by Field Rules <input type="checkbox"/>		Recommendation of T.D.W.R. Railroad Commission (Special) <input checked="" type="checkbox"/>		Dt. of Letter 07/03/2012	
38 Is well multiple completion? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No							
39 If multiple completion, list all reservoir names (completions in this well) and Oil Lease or Gas ID No. FIELD & RESERVOIR N/A				GAS ID or OIL LEASE #		Oil-G Gas-G	Well #
40 Intervals Drilled by Rotary Tools <input checked="" type="checkbox"/> Cable Tools		41 Name of Drilling Contractor SAVANNA				42 Is Cementing Affidavit Attached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
43 CASING RECORD (Report All Strings Set in Well)							
CASING SIZE	WT #/FT	DEPTH SET	MULTISTAGE TOOL DEPTH	TYPE & AMOUNT CEMENT (sacks)	HOLE SIZE	TOP OF CEMENT	SLURRY VOL. cu ft
8 5/8	32.0	2212		CL C 1450	11	0	2504.0
7	26.0	4047		CL C 200	7 7/8	3970	240.0
4 1/2	11.6	9407		CL C/CL H 540	6 1/4	5118	993.0
44 LINER RECORD							
Size	Top	Bottom	Sacks Cement	Screen			
N/A							
45 TUBING RECORD				46 Producing Interval (this completion) Indicate depth of perforation or open hole			
Size	Depth Set	Packer Set	From	To			
2 3/8	6937		From 6980	To 9150			
			From	To			
			From	To			
47 ACID, SHOT, FRACTURE, CEMENT SQUEEZE ETC							
Depth Interval		Amount and Kind of Material Used					
6980.0	9150.0	428 BBLS 15% HCL, 31,244 BBLS WATER, 1,192,932# SAND					
48 FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)							
Formations	Depth	Formations	Depth				
WOLFCAMP	6190.0						
STRAWN	9010.0						
ATOKA	9100.0						
REMARKS: N/A							

Cementor: Fill in shaded areas  
Operator: Fill in other items

RAILROAD COMMISSION OF TEXAS  
Oil and Gas Division

Form W-15  
Cementing Report  
Rev 4/1/83  
483-045

1. Operator's Name (As shown on Form P-5, Organization Report) <b>COG Operating LLC</b>	2. RRC Operator No. <b>166150</b>	3. RRC District No. <b>08</b>	4. County of Well Site <b>Glasscock</b>
5. Field Name (Wildcat or exactly as shown on RRC Records) <b>GARDEN CITY, S. (WOLF CAMP)</b>		6. API No. <b>42-173-35870</b>	7. Drilling Permit No. <b>763407</b>
8. Lease Name <b>Currie E State</b>	9. Rule 37 Case No.	10. Oil Lease/Gas ID No. <b>41832</b>	11. Well No. <b>4101</b>

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date		06-25-2013					
13. • Drilled Hole Size		11"					
• Est. % wash or hole enlargement							
14. Size of casing (in. O.D.)		8 5/8"					
15. Top of liner (ft.)							
16. Setting depth (ft.)		2.212					
17. Number of centralizers used		18					
18. Hrs. Waiting on cement before drill-out		12					
1 <sup>st</sup> Slurry	19. API cement used: No. of sacks ▶	1250					
	Class ▶	C					
	Additives ▶	Remarks #1					
2 <sup>nd</sup> Slurry	No. of sacks ▶	200					
	Class ▶	C					
	Additives ▶	Remarks #2					
3 <sup>rd</sup> Slurry	No. of sacks ▶						
	Class ▶						
	Additives ▶						
1 <sup>st</sup>	20. Slurry pumped: Volume (cu. ft.) ▶	2238					
	Height (ft.) ▶	8804					
2 <sup>nd</sup>	Volume (cu. ft.) ▶	266					
	Height (ft.) ▶	1046					
3 <sup>rd</sup>	Volume (cu. ft.) ▶						
	Height (ft.) ▶						
Total	Volume (cu. ft.) ▶	2504					
	Height (ft.) ▶	9850					
21. Was cement circulated to ground surface (or bottom of cellar) outside casing?		Yes					
Remarks #1 5% bwoc Sodium Chloride + 0.125 #/sk Cello Flake + 0.1% bwoc FL-52 + 4% bwoc Bentonite							
Remarks #2 0.5% bwoc Calcium Chloride							
Cement Returned to Surface 7 bbl 22 sk							

CEMENTING TO PLUG AND ABANDON	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
23. Cementing date								
24. Size of hole or pipe plugged (in.)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu. ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lb/gal)								
31. Type cement								

CEMENTER'S CERTIFICATE: I declare under penalties in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this Certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my Supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

Douglas Turner- Service Supervisor

Name and title of cementer's representative

Baker Hughes- Pressure Pumping Services  
Cementing Company

  
Signature

P.O. Box 4717

Address

Odessa, Texas 79760  
City, State, Zip Code

(432) 381-2301

Tel: Area Code Number

06-25-2013

Date mo. Day yr

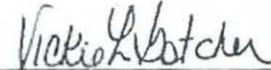
OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this Certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

VICKIE L. GOICHER

Typed or printed name of operator's representative

REG. ANALYST

Title

  
Signature

600 W ILLINOIS AVE

Address

MIDLAND TX 79701

City, State, Zip Code

432-818-2249

Tel: Area Code Number

07/02/13

Date mo. day yr

Instructions to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging). For offshore operations, see the requirements of Rule 13 (c).

A. What to file. An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- An initial oil or gas completion report, Form W-2 or G-1, as required by Statewide or special field rules.
- Form W-4, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- Form W-3, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete Form W-15, in addition to Form W-3, to show any casing cemented in the hole.

B. Where to file. The appropriate Commission District Office for the county in which the well is located.

C. Surface Casing. An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Committee.

D. Centralizers. Surface Casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In Non-deviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. Exceptions and alternative casing programs. The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. An operator must obtain approval of any exception before beginning casing and cementing operations.

F. Intermediate and production casing. For specific technical requirements, operators should consult Statewide Rule 13 (3) and (4).

G. Plugging and abandoning. Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

Cementer: Fill in shaded areas.  
Operator: Fill in other items.

RAILROAD COMMISSION OF TEXAS  
Oil and Gas Division

Form W-15  
Cementing Report  
Rev. 4/1/83  
483-045

1. Operator's Name (As shown on Form P-5, Organization Report) <b>COG OPERATING LLC</b>	2. RRC Operator No. <b>166150</b>	3. RRC District No. <b>08</b>	4. County of Well Site <b>GLASSCOCK</b>
5. Field Name (Wildcat or exactly as shown on RRC Records) <b>GARDEN CITY, S. (WOLFCAMP)</b>		6. API No. <b>42-173-35870</b>	7. Drilling Permit No. <b>763407</b>
8. Lease Name <b>CURRIE E STATE</b>	9. Rule 37 Case No.	10. Oil Lease/Gas ID No. <b>41832</b>	11. Well No. <b>4101</b>

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date			7-13				
13. • Drilled Hole Size			7 7/8"				
• Est. % wash or hole enlargement							
14. Size of casing (in. O.D.)			7"				
15. Top of liner (ft.)							
16. Setting depth (ft.)			4,047'				
17. Number of centralizers used							
18. Hrs. Waiting on cement before drill-out			12				
1 <sup>st</sup> Slurry	19. API cement used: No. of sacks ▶		200				
	Class ▶		C				
	Additives ▶		5% SALT+.7% CD-32				
2 <sup>nd</sup> Slurry	No. of sacks ▶						
	Class ▶						
	Additives ▶						
3 <sup>rd</sup> Slurry	No. of sacks ▶						
	Class ▶						
	Additives ▶						
1 <sup>st</sup>	20. Slurry pumped: Volume (cu. ft.) ▶		240				
	Height (ft.) ▶		3381				
2 <sup>nd</sup>	Volume (cu. ft.) ▶						
	Height (ft.) ▶						
3 <sup>rd</sup>	Volume (cu. ft.) ▶						
	Height (ft.) ▶						
Total	Volume (cu. ft.) ▶		240				
	Height (ft.) ▶		3381				
21. Was cement circulated to ground surface (or bottom of cellar) outside casing?			no				
Remarks 1 no circulation during job							
Remarks 2							

CEMENTING TO PLUG AND ABANDON	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
23. Cementing date								
24. Size of hole or pipe plugged (in.)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu. Ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lb/gal)								
31. Type cement								

CEMENTER'S CERTIFICATE: I declare under penalties in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this Certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my Supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

Cameron Canterbury Cement supervisor  
Name and title of cementer's representative

Baker Hughes Industries  
Cementing Company

  
Signature

P.O. Box 4717                      Odessa, Texas 79760  
Address                              City, State, Zip Code

(432) 381-2301  
Tel. Area Code      Number                      Date mo. day yr

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this Certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

VICKIE L. GOTCHER  
Typed or printed name of operator's representative

REG. ANALYST  
Title

  
Signature

600 W. ILLINOIS AVE.                      MIDLAND, TX 79701  
Address                              City, State, Zip Code

432-818 2249                      07/17/13  
Tel. Area Code      Number                      Date mo. day yr

Instructions to Form W-15, Cementing Report

**IMPORTANT:** Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging). For offshore operations, see the requirements of Rule 13 (c).

- A. What to file. An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:
- An initial oil or gas completion report, Form W-2 or G-1, as required by Statewide or special field rules.
  - Form W-4, Application for Multiple Completion, if the well is a multiple parallel casing completion, and
  - Form W-3, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete Form W-15, in addition to Form W-3, to show any casing cemented in the hole.
- B. Where to file. The appropriate Commission District Office for the county in which the well is located.
- C. Surface Casing. An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Committee.
- D. Centralizers. Surface Casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In Non-deviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.
- E. Exceptions and alternative casing programs. The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. An operator must obtain approval of any exception before beginning casing and cementing operations.
- F. Intermediate and production casing. For specific technical requirements, operators should consult Statewide Rule 13 (3) and (4).
- G. Plugging and abandoning. Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

Cementer: Fill in shaded areas.  
Operator: Fill in other items.

RAILROAD COMMISSION OF TEXAS  
Oil and Gas Division

Form W-15  
Cementing Report  
Rev. 4/1/83  
483-045

1. Operator's Name (As shown on Form P-5, Organization Report) <b>COG OPERATING LLC</b>	2. RRC Operator No. <b>166150</b>	3. RRC District No. <b>08</b>	4. County of Well Site <b>GLASSCOCK</b>
5. Field Name (Wildcat or exactly as shown on RRC Records) <b>GARDEN CITY, S. (WOLFCAMP)</b>		6. API No. <b>42-173-35870</b>	7. Drilling Permit No. <b>763407</b>
8. Lease Name <b>Currie E State</b>	9. Rule 37 Case No.	10. Oil Lease/Gas ID No. <b>41832</b>	11. Well No. <b>4101</b>

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date				7/23/13			
13. • Drilled Hole Size				10 1/4"			
• Est. % wash or hole enlargement							
14. Size of casing (in. O.D.)				4 1/2"			
15. Top of liner (ft.)							
16. Setting depth (ft.)				9,407'			
17. Number of centralizers used				36			
18. Hrs. Waiting on cement before drill-out				12			
1 <sup>st</sup> Slurry	19. API cement used: No. of sacks ▶			50			
	Class ▶			C			
	Additives ▶			Remarks#1			
2 <sup>nd</sup> Slurry	No. of sacks ▶			110			
	Class ▶			C			
	Additives ▶			Remarks#2			
3 <sup>rd</sup> Slurry	No. of sacks ▶			380			
	Class ▶			II			
	Additives ▶			Remarks 3			
1 <sup>st</sup>	20. Slurry pumped: Volume (cu. ft.) ▶			213			
	Height (ft.) ▶			2040			
2 <sup>nd</sup>	Volume (cu. ft.) ▶			297			
	Height (ft.) ▶			1820			
3 <sup>rd</sup>	Volume (cu. ft.) ▶			483			
	Height (ft.) ▶			5074			
Total	Volume (cu. ft.) ▶			993			
	Height (ft.) ▶			8934			
21. Was cement circulated to ground surface (or bottom of cellar) outside casing?				NO			
Remarks 1: 60:40 Poz Class C + .1% R-3 + .125 lbs/sack Cello Flake + 2 lbs/sack Kol Seal, + .4% FI-62 + .5% SMS + .5% FL-52A + 89.7% Fresh Water. Remarks 2: 60:40 Poz C + .1% R-3 + .125 lbs/sack Cello Flake + 2 lbs/sack Kol Seal, + .4% FI-62 + .5% SMS + .5% FL-52A + 89.7% Fresh Water Remarks 3: 50:50 Poz II + .25% Sodium Chloride + .005 gps FP-13L + .2% FL-52A + 2% Gel + 54.7% Water							

CEMENTING TO PLUG AND ABANDON	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
23. Cementing date								
24. Size of hole or pipe plugged (in.)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu. ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lb/gal)								
31. Type cement								

**CEMENTER'S CERTIFICATE:** I declare under penalties in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

Richard Hodo Service Supervisor      Baker Hughes Pressure Pumping Services      [Signature]  
 Name and title of cementer's representative      Cementing Company      Signature

P.O. Box 4717      Odessa, Texas 79760      (432) 381-2301      07-23-13  
 Address      City, State, Zip Code      Tel. Area Code Number      Date mo. day yr

**OPERATOR'S CERTIFICATE:** I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

VICKIE L. POTCHER      [Signature]      [Signature]  
 Typed or printed name of operator's representative      Title      Signature

1000 W. ILLINOIS AVE      Midland, TX 79701      432 381-2301      07-23-13  
 Address      City, State, Zip Code      Tel. Area Code Number      Date mo. day yr

Instructions to Form W-15, Cementing Report

**IMPORTANT:** Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging). For offshore operations, see the requirements of Rule 13 (c).

- A. What to file. An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:
  - An initial oil or gas completion report, Form W-2 or G-1, as required by Statewide or special field rules;
  - Form W-4, Application for Multiple Completion, if the well is a multiple parallel casing completion, and
  - Form W-3, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete Form W-15, in addition to Form W-3, to show any casing cemented in the hole.
- B. Where to file. The appropriate Commission District Office for the county in which the well is located.
- C. Surface Casing. An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Committee.
- D. Centralizers. Surface Casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In non-deviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.
- E. Exceptions and alternative casing programs. The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. An operator must obtain approval of any exception before beginning casing and cementing operations.
- F. Intermediate and production casing. For specific technical requirements, operators should consult Statewide Rule 13 (3) and (4).
- G. Plugging and abandoning. Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

Cementor: Fill in shaded areas  
Operator: Fill in other items

Form W-15  
Cementing Report

RAILROAD COMMISSION OF TEXAS

Oil and Gas Division

1. Operator's Name (As Shown on Form P-5, Organization Report) <b>COG Operating LLC</b>		2. RRC Operator No. <b>1166150</b>	3. RRC District No. <b>08</b>	4. County of Well Site <b>Glasscock</b>
5. Field Name (Wildcat or Exactly as Shown on RRC Records) <b>GARDEN CITY, S. (WOLF CAMP)</b>		6. API No. <b>42-173-35870</b>	7. Ordinal Permit No. <b>763407</b>	
8. Lease Name <b>Currie "E" State</b>		9. Rule 37 Case No.	10. Oil Lease/Gas ID No. <b>41832</b>	11. Well Number <b>4101</b>

	CASING CEMENTING DATA	SURFACE CASING	INTERMEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				SINGLE STRING	MULTIPLE PARALLEL STRINGS	TOOL	SHOE
12. Cementing Date							
13. *Drilled Hole Size							
*Ext. % Wash or Hole Enlargement							
14. Size of Casing (in. O.D.)							
15. Top of Liner (ft)							
16. Setting Depth (ft)							
17. Number of Centralizers Used							
18. Hrs. Waiting on Cement Before Drill-Out							
1st Slurry	19. API Cement Used: No. of Sacks >						
	Class >						
	Additives >						
2nd Slurry	No. of Sacks >						
	Class >						
	Additives >						
3rd Slurry	No. of Sacks >						
	Class >						
	Additives >						
1st	20. Slurry Pumped: Volume (cu.ft.) >						
	Height (ft) >						
2nd	Volume (cu.ft.) >						
	Height (ft) >						
3rd	Volume (cu.ft.) >						
	Height (ft) >						
Total	Volume (cu.ft.) >						
	Height (ft) >						
21. Was Cement Circulated to Ground Surface (or Bottom of Cella) Outside Casing?							

22. Remarks  
10% gypsum, 5% salt, 10# gilsonite, 1/2# celloflake,

OVER →

CEMENTING TO PLUG AND ABANDON	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
23. Cementing Date	7/5/2013							
24. Size of Hole or Pipe Plugged (in)	7 7/8							
25. Depth to Bottom of Tubing or Drill Pipe (ft)	2807							
26. Sacks of Cement Used (each plug)	300							
27. Slurry Volume Pumped (cu ft.)	426							
28. Calculated Top of Plug (ft)	1296							
29. Measured Top of Plug, If Tagged (ft)	3312							
30. Slurry Wt. (lbs/gal)	14.2							
31. Type Cement	Premium plus							

CEMENTERS CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

Harley Fenton - Chris Ellison Service Supervisor  
Name and Title of Cements Representative

Universal Pressure Pumping, Inc.  
Cementing Company

Signature

P. O. BOX 52190 MIDLAND TX 79710  
Address City State Zip Code

(432) 570 - 4899  
Tel Area Code Number

July 5, 2013  
Date Mo Day Yr

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

VICKIE L. GOTCHER  
Typed or Printed Name of Operators Representative

REG ANALYST  
Title

Vickie L. Gotcher  
Signature

600 W. ILLINOIS AVE MIDLAND TX 79701  
Address City State Zip Code

432-513-2049  
Tel Area Code Number

07/05/13  
Date Mo Day Yr

### Instruction to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide rules 8 (Water Protection) 13 (Casing, Cementing, Drilling, and Completion, and 14 (Well Plugging). For offshore operations, see the requirements of Rule 13 (c).

A. What to file. An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- \* An initial oil or gas completion report, Form W-2 or G-1, as required by Statewide or special field rules.
- \* Form W-4, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- \* Form W-3, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete W-15, in addition to Form W-3, to show any casing cemented in the hole.

B. Where to file. The appropriate Commission District Office for the county in which the well is located.

C. Surface casing. An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

D. Centralizers. Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. Exceptions and alternative casing programs. The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. An operator must obtain approval of any exception before beginning casing and cementing operations.

F. Intermediate and production casing. For specific technical requirements, operators should consult Statewide Rule 12 (b) (3) and (4).

G. Plugging and abandoning. Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

RAILROAD COMMISSION OF TEXAS  
OIL AND GAS DIVISION

Form W-12  
(1-1-71)

<b>INCLINATION REPORT</b> (One Copy Must Be Filed With Each Completion Report.)		6. RRC District 08
1. FIELD NAME (as per RRC Records or Wildcat) GARDEN CITY, S. (WOLFCAMP)		7. RRC Lease Number. (Oil completions only) 41832
2. LEASE NAME Currie E State		8. Well Number 4101
3. OPERATOR COG OPERATING, LLC		9. RRC Identification Number (Gas completions only)
4. ADDRESS ONE PONCHO CENTER 400 W. ILLINOIS AVE. MIDLAND, TX 79701		10. County Glasscock
5. LOCATION (Section, Block, and Survey) SEC. 41, BLK. 30 T4S, T&P RRC, A-82		

RECORD OF INCLINATION

*11. Measured Depth (feet)	12. Course Length (Hundreds of feet)	*13. Angle of Inclination (Degree)	14. Displacement per Hundred Feet (Sine of Angle X100)	15. Course Displacement (feet)	16. Accumulative Displacement (feet)
250	2.50	.10	.17	.44	.44
684	4.34	.80	1.40	6.20	6.50
1159	4.75	.70	1.22	5.80	12.30
1634	4.75	.80	1.40	6.63	18.93
2110	4.76	.50	.87	4.15	23.08
2325	2.55	.10	.17	.45	23.53
<del>2839</del>	4.74	.90	1.57	7.45	30.98
3314	4.75	.30	.52	2.49	33.46
3805	4.91	.3	.52	2.57	36.03
4581	7.76	2.40	5.06	39.26	75.29
4588	.07	1.20	2.09	.15	75.44
4708	1.20	(1.20)	10.80	12.96	88.40
5344	6.36	2.90	5.26	32.16	120.58
5851	5.07	2.30	4.01	20.35	140.92
6324	4.73	1.30	2.27	10.73	151.65
6829	5.05	1.20	2.09	10.58	162.23

If additional space is needed, use the reverse side of this form.

17. Is any information shown on the reverse side of this form?  yes  no
18. Accumulative total displacement of well bore at total depth of 9367 feet = 230.79 feet.
- \*19. Inclination measurements were made in -  Tubing  Casing  Open hole  Drill Pipe
20. Distance from surface location of well to the nearest lease line 467 feet.
21. Minimum distance to lease line as prescribed by field rules 330' feet.
22. Was the subject well at any time intentionally deviated from the vertical in any manner whatsoever? NO
- (If the answer to the above question is "yes", attach written explanation of the circumstances.)

<p><b>INCLINATION DATA CERTIFICATION</b></p> <p>I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have personal knowledge of the inclination data and facts placed on both sides of this form and that such data and facts are true, correct, and complete to the best of my knowledge. This certification covers all data as indicated by asterisks (*) by the item numbers on this form.</p> <p><u>[Signature]</u> Signature of Authorized Representative <u>DUSTIN BROWN OPERATIONS MGR.</u> Name of Person and Title (type or print) <u>SAVANNA DRILLING</u> Name of Company Telephone: <u>432-614-1055</u> Area Code</p>	<p><b>OPERATOR CERTIFICATION</b></p> <p>I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have personal knowledge of all information presented in this report, and that all data presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all data and information presented herein except inclination data as indicated by asterisks (*) by the item numbers on this form.</p> <p><u>[Signature]</u> Signature of Authorized Representative <u>VICKIE L GOTCHER - REG ANALYST</u> Name of Person and Title (type or print) <u>COG OPERATING LLC</u> Operator Telephone: <u>432-818-2249</u> Area Code</p>
--	--

Railroad Commission Use Only:

Approved By: \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

\* Designates items certified by company that conducted the inclination surveys.



## RAILROAD COMMISSION OF TEXAS

INCLINATION REPORT for **Currie "E" State 4101**

<u>Measured Depth (ft)</u>	<u>Course Length (100's feet)</u>	<u>Angle of Incl (deg)</u>	<u>Displacement per 100 ft</u>	<u>Course Displ (feet)</u>	<u>Accumulative Displ (feet)</u>
250	2.50	0.10	0.17	0.44	0.44
684	4.34	0.80	1.40	6.06	6.50
1159	4.75	0.70	1.22	5.80	12.30
1634	4.75	0.80	1.40	6.63	18.93
2110	4.76	0.50	0.87	4.15	23.08
2365	2.55	0.10	0.17	0.45	23.53
2839	4.74	0.90	1.57	7.45	30.98
3314	4.75	0.30	0.52	2.49	33.46
3805	4.91	0.30	0.52	2.57	36.03
4581	7.76	2.90	5.06	39.26	75.29
4588	0.07	1.20	2.09	0.15	75.44
4708	1.20	6.20	10.80	12.96	88.40
5344	6.36	2.90	5.06	32.18	120.58
5851	5.07	2.30	4.01	20.35	140.92
6324	4.73	1.30	2.27	10.73	151.65
6829	5.05	1.20	2.09	10.58	162.23
7335	5.06	1.10	1.92	9.71	171.94
7839	5.04	1.20	2.09	10.55	182.50
8260	4.21	0.70	1.22	5.14	187.64
8740	4.80	0.80	1.40	6.70	194.34
9213	4.73	3.40	5.93	28.05	222.40
9308	0.95	3.20	5.58	5.30	227.70
9367	0.59	3.00	5.23	3.09	230.79

RECEIVED

STATEMENT OF PRODUCTIVITY OF ACREAGE  
ASSIGNED TO PRORATION UNITS

Form P-15

Tracking No.: 89971

This facsimile P-15 was generated electronically  
from data submitted to the RRC

The undersigned states that he is authorized to make this statement; that he has knowledge of the facts concerning the COG OPERATING LLC

CURRIE 'A' STATE LEASE, OPERATOR No. 4003 WELL; that such well is

completed in the GARDEN CITY, S. (WOLFCAMP) Field, GLASSCOCK County,

Texas and that the acreage claimed, and assigned to such well for proration purposes as authorized by special rule and as shown on the attached certified plat embraces \_\_\_\_\_

160.0 acres which can reasonably be considered to be productive of hydrocarbons.

- CERTIFICATE -

*I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge,*

Date 06/16/2014 Signature Vickie Gotcher

Telephone (432) 818-2249 Title Regulatory Analyst  
AREA CODE

# HALLIBURTON

## COMPENSATED NEUTRON GAMMA RAY/CCL LOG

TIGHT HOLE

**COG OPERATING LLC**  
**CURRIE E STATE 4101**  
**GARDEI CITY, S (WOLFCAMP)**  
**GLASSCOCK TEXAS**

Company COG OPERATING LLC  
 Well CURRIE E STATE 4101  
 Field GARDEN CITY, S (WOLFCAMP)  
 County GLASSCOCK State TEXAS

API No 42-173-05870 Serv # 900622706 Other Services  
 Location: 1980' FEL & 467' FINL  
 SEC 41, BLK 32, T-4-S  
 T&P RR. CO SURVEY

RCBL

Company	Well	Field	County	Sec	Twps	Rgs	Elevation
COG OPERATING LLC	CURRIE E STATE 4101	GARDEN CITY, S (WOLFCAMP)	GLASSCOCK				
Permanent Datum				GROUND LEVEL			Elevation 2530'
Log Measured From				KB	17	Ft. above perm datum	KB 2547'
Drilling Measured From				KB			DF 2546'
							GL 2530'
Date @ Time Logged		00 JUL 2013		Type Fluid in Hole		WATER	
Run No		ONE		Density of Fluid		N/A	
Depth - Driller		9407'		Fluid Level		FULL	
Depth - Logger		9346'		Cement Top Est. Logged		5113'	
Bottom - Logged Interval		9344'		Equipment Location		12097005 ODESSA	
Top - Log Interval		4000'		Recorded by		B McCLAIN	
Max Recorded Temp		NOT RECORDED		Witnessed by		MR BOB HOWARD	
CEMENTING DATA				Surface	Protection	Production	Liner
				String	String	String	
Date / Time Cemented							
Primary / Squeeze							
Expected							
Compressive Strength		psi@	hrs	psi@	hrs	psi@	hrs
Cement Volume							
Cement Type / Weight							
Formulation							
Mud Type / Mud Wgt							
Borehole Record				Casing & Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	11"	SURFACE	2200'	8.625"	32#	SURFACE	2200'
TWO	7.875"	2200'	4050'	7"	26#	SURFACE	4050'
THREE	6.126"	4050'	9407'	4.5"	11.6#	SURFACE	9407'
SHORT	JOINT	6134'	6148'+				
SHORT	JOINT	6130'	6192'	SHORT	JOINT	3270'	3286'+

Groundwater  
Advisory Unit

GROUNDWATER PROTECTION DETERMINATION

Date July 3, 2012

GAU File No.: SC- 5978

\*\*\*\*\* EXPEDITED APPLICATION \*\*\*\*\*

API Number 17300000

Attention: VIOLA VASQUEZ

RRC Lease No. 000000

SC\_I66150\_17300000\_000000\_5978.pdf

COG OPERATING LLC  
550 W TEXAS AVE  
STE100  
MIDLAND TX 79701

--Measured--

1117 ft FWL

1055 ft FSL

MRL: SURVEY

Digital Map Location:

X-coord/Long 1689712

Y-coord/Lat 781897

Datum 27 Zone C

P-5# 166150

County GLASSCOCK Lease & Well No. CURRIE E #4115&ALL

Purpose ND

Location SUR-T&P, BLK-32, TSHP-4S, SRC-41, --[TD=10800], [RRC 8], [PSC#4038]

To protect usable-quality groundwater at this location, the Groundwater Advisory Unit of the Texas Railroad Commission recommends:

The interval from the land surface to 20 feet below the base of Cretaceous-age beds must be protected. The base of the Cretaceous is estimated to occur at a depth of 350 feet.

This recommendation is applicable to all wells drilled in this SECTION 41.

Note: Unless stated otherwise, this recommendation is intended to apply only to the subject well and not for area-wide use. This recommendation is intended for normal drilling, production, and plugging operations only. It does not apply to wastewater disposal operation into a non-productive zone (RRC Form W-14).

If you have any questions, please contact us at 512-483-2741, [gau@rrc.state.tx.us](mailto:gau@rrc.state.tx.us), or by mail.

Sincerely,

*George Dunfield*  
Digitally signed by George Dunfield  
DN: c=US, e=TEXAS, ou=Austin,  
o=RRC Railroad Commission of Texas,  
ou=George Dunfield,  
email=george.dunfield@rrc.state.tx.us  
Date: 2012.07.03 10:12:00 -05'00'  
George Dunfield, P.G.

GEOLOGIST SEAL



Geologist, Groundwater Advisory Unit  
Oil & Gas Division

The seal appearing on this document was authorized by George Dunfield on 7/3/2012  
Note: Alteration of this electronic document will invalidate the digital signature.

Currie "E" State #4101  
API 173-35870  
Permit 763407  
Lse Acres - 1276 ac

Currie E State #3102	160 ac
Currie E State #3108	160 ac
Currie E State #3113	160 ac
Currie E State #4101	160 ac
Currie E State #4102	160 ac
Currie E State #4104	160 ac
Total Acres Assigned	960 ac

STATEMENT OF PRODUCTIVITY OF ACREAGE  
ASSIGNED TO PRORATION UNITS

Form P-15

Tracking No.: 88539

This facsimile P-15 was generated electronically  
from data submitted to the RRC

The undersigned states that he is authorized to make this statement; that he has knowledge of the facts concerning the COG OPERATING LLC ,  
OPERATOR  
CURRIE "E" STATE , No. 4101 ; that such well is  
LEASE WELL  
completed in the GARDEN CITY, S. (WOLFCAMP) Field, GLASSCOCK County,  
Texas and that the acreage claimed, and assigned to such well for proration purposes as  
authorized by special rule and as shown on the attached certified plat embraces \_\_\_\_\_  
160.0 acres which can reasonably be considered to be productive of hydrocarbons.

- CERTIFICATE -

*I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge,*

Date 10/30/2013 Signature Vickie Gotcher  
Telephone (432) 818-2249 Title Regulatory Analyst  
AREA CODE

**RAILROAD COMMISSION OF TEXAS  
OIL & GAS DIVISION**

PERMIT TO DRILL, DEEPEN, PLUG BACK, OR RE-ENTER ON A REGULAR OR ADMINISTRATIVE EXCEPTION LOCATION

PERMIT NUMBER 763407	DATE PERMIT ISSUED OR AMENDED May 29, 2013	DISTRICT * 08
API NUMBER 42-173-35870	FORM W-1 RECEIVED May 24, 2013	COUNTY GLASSCOCK
TYPE OF OPERATION NEW DRILL	WELLBORE PROFILE(S) Vertical	ACRES 1276
OPERATOR COG OPERATING LLC	166150	NOTICE This permit and any allowable assigned may be revoked if payment for fee(s) submitted to the Commission is not honored. District Office Telephone No: (432) 684-5581
LEASE NAME CURRIE 'E' STATE		WELL NUMBER 4101
LOCATION 9.5 miles SE direction from GARDEN CITY		TOTAL DEPTH 10800
Section, Block and/or Survey SECTION ◀ 41                      BLOCK ◀ 32 T4S                      ABSTRACT ◀ 82 SURVEY ◀ T&P RR CO		
DISTANCE TO SURVEY LINES 1980 ft. EAST    467 ft. NORTH		DISTANCE TO NEAREST LEASE LINE 467 ft.
DISTANCE TO LEASE LINES 1980 ft. EAST    467 ft. NORTH		DISTANCE TO NEAREST WELL ON LEASE See FIELD(s) Below
FIELD(s) and LIMITATIONS: * SEE FIELD DISTRICT FOR REPORTING PURPOSES *		
FIELD NAME LEASE NAME	ACRES NEAREST LEASE	DEPTH WELL # NEAREST WE
----- GARDEN CITY, S. (WOLFCAMP) CURRIE 'E' STATE	1276.00 467	7,642 4101 2619
DIST 08		
RESTRICTIONS: Permitted for oil only. This is a hydrogen sulfide field. Hydrogen Sulfide Fields with perforations must be isolated and tested per State Wide Rule 36 and a Form H-9 filed with the district office. Fields with SWR 10 authority to downhole commingle must be isolated and tested individually prior to commingling production.		
THE FOLLOWING RESTRICTIONS APPLY TO ALL FIELDS This well shall be completed and produced in compliance with applicable special field or statewide spacing and density rules. If this well is to be used for brine mining, underground storage of liquid hydrocarbons in salt formations, or underground storage of gas in salt formations, a permit for that specific purpose must be obtained from Environmental Services prior to construction, including drilling, of the well in accordance with Statewide Rules 81, 95, and 97.		

API No. _____ Application Status # <u>763407</u> SWR Exception Case/Docket No. _____	<b>RAILROAD COMMISSION OF TEXAS</b> <b>OIL &amp; GAS DIVISION</b>  <b>APPLICATION FOR PERMIT TO DRILL, RECOMPLETE, OR RE-ENTER</b> <i>This facsimile W-1 was generated electronically from data submitted to the RRC</i> <i>A certification of the automated data is available in the RRC's Austin office.</i>	<b>FORM W-1</b> 07/2004  Permit Status: <b>Pending Approval</b>  <i>The RRC has not approved this application.</i> <i>Duplication or distribution of information is at the user's own risk.</i>
1. RRC Operator No. <b>166150</b>	2. Operator's Name (as shown on form P-5, Organization Report) <b>COG OPERATING LLC</b>	3. Operator Address (include street, city, state, zip):
4. Lease Name <b>CURRIE 'E' STATE</b>	5. Well No. <b>4101</b>	
<b>GENERAL INFORMATION</b>		
6. Purpose of filing (mark ALL appropriate boxes): <input checked="" type="checkbox"/> New Drill <input type="checkbox"/> Recompletion <input type="checkbox"/> Reclass <input type="checkbox"/> Field Transfer <input type="checkbox"/> Re-Enter <input type="checkbox"/> Amended <input type="checkbox"/> Amended as Drilled (BIL) (Also File Form W-1D)		
7. Wellbore Profile (mark ALL appropriate boxes): <input checked="" type="checkbox"/> Vertical <input type="checkbox"/> Horizontal (Also File Form W-1H) <input type="checkbox"/> Directional (Also File Form W-1D) <input type="checkbox"/> Sidetrack		
8. Total Depth <b>10800</b>	9. Do you have the right to develop the minerals under any right-of-way? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10. Is this well subject to Statewide Rule 36 (hydrogen sulfide area)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>SURFACE LOCATION AND ACREAGE INFORMATION</b>		
11. RRC District No. <b>08</b>	12. County <b>GLASSCOCK</b>	13. Surface Location <input checked="" type="checkbox"/> Land <input type="checkbox"/> Bay/Estuary <input type="checkbox"/> Inland Waterway <input type="checkbox"/> Offshore
14. This well is to be located <u>9.5</u> miles in a <u>SE</u> direction from <u>GARDEN CITY</u> which is the nearest town in the county of the well site.		
15. Section <b>41</b>	16. Block <b>32 T-4-S</b>	17. Survey <b>T&amp;P RR CO</b>
18. Abstract No. <b>A-</b>	19. Distance to nearest lease line: <b>467</b> ft.	20. Number of contiguous acres in lease, pooled unit, or unitized tract: <b>1276</b>
21. Lease Perpendiculars: <u>1980</u> ft from the <u>EAST</u> line and <u>467</u> ft from the <u>NORTH</u> line		
22. Survey Perpendiculars: <u>1980</u> ft from the <u>EAST</u> line and <u>467</u> ft from the <u>NORTH</u> line.		
23. Is this a pooled unit? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	24. Unitization Docket No.	25. Are you applying for Substandard Acreage Field? <input type="checkbox"/> Yes (attach Form W-1A) <input checked="" type="checkbox"/> No
<b>FIELD INFORMATION</b> List all fields of anticipated completion including Wildcat. List one zone per line.		
26. RRC District No.	27. Field No.	28. Field Name (exactly as shown in RRC records)
29. Well Type	30. Completion Depth	31. Distance to Nearest Well in this Reservoir
32. Number of Wells on this lease in this Reservoir		
<b>08</b>	<b>33998500</b>	<b>GARDEN CITY, S. (WOLFCAMP)</b>
		<b>Oil Well</b>
	<b>7642</b>	<b>2619.00</b>
		<b>5</b>
<b>BOTTOMHOLE LOCATION INFORMATION is required for DIRECTIONAL, HORIZONTAL, AND AMENDED AS DRILLED PERMIT APPLICATIONS</b>		
Remarks		<b>Certificate:</b>
		I certify that information stated in this application is true and complete, to the best of my knowledge.
		<u>Viola Vasquez, Regulatory Analyst</u> <u>May 24, 2013</u> Name of filer    Date submitted
		<u>(432)683-7443</u> <u>Vvasquez@conchoresources.com</u> Phone    E-mail Address (OPTIONAL)
<b>RRC Use Only</b> Data Validation Time Stamp:    May 24, 2013 10:47 AM( Current Version )		

**APPLICATION FOR ALTERNATE SURFACE CASING PROGRAM**  
**Statewide Rule 13(b)(2)(g)**  
**RRC District 08**

7/14

Operator's Name and Address:  COG OPERATING LLC 550 W. TEXAS AVE., STE.100 MIDLAND, TEXAS 79701	Lease: CURRIE 'E' STATE	Well No. 4101
	Field: GARDEN CITY, S. (WOLFCAMP)	
	Drilling Permit No.: 763407	
	County: GLASSCOCK	RRC District: 08
	Location: SEC 41, BLK 32 T4S. T&P RR CO, A-82	
	Proposed TD: 9300	

Distance and Direction from nearest town: 9.5 MILES SE FROM GARDEN CITY

Proposed Injection or disposal well?  Yes  No NOTE: Special conditions may apply. See PROVISIONS below.

Usable-quality water strata (as determined by TCEQ "Waterboard" letter) occur to a depth of 350'+20' ft, and from        ft to        ft, and from        ft to        ft.

**Note: Please submit copy of TCEQ "Waterboard" letter with this request. Request cannot be processed without this information.**

Distance and direction of nearest water well (within 1/4 mile): WINDMILL 1/4 MILE WEST FROM SURFACE LOCATION

Type of water well (domestic, public, irrigation, stock, etc.): U/K Depth: U/K

**Proposed Casing and Cementing Program**

Note: You may attach a wellbore diagram or cementing proposal to this application.

This application is for (check applicable boxes):  Short surface casing  Excess surface casing  No surface casing

The proposed surface casing depth: 2200' Multi-Stage tool depth (if applicable): N/A

Intermediate or production casing depth: 9300' Multi-Stage tool depth (if applicable): N/A

Centralizer number and placement: Total 18 - 1-pin end top it, 1-above/below DV tool, 1-every 4' to top, 1- 7' above shoe

Does the cement across the critical zone have 72-hr compressive strength of at least 1,200 psi?  Yes  No

Does the filler cement have 24-hr compressive strength of at least 250 psi?  Yes  No

Do you plan on circulating cement to the surface on all casing strings protecting usable-quality water?  Yes  No

Reason for this request: to contain pressure if a deeper high-pressure zone is encountered.

**PROVISIONS APPLICABLE TO RULE 13 EXCEPTIONS:**

1. Caution: If this well is being drilled for injection or disposal purposes, an injection or disposal well permit may be denied unless surface casing is set and cemented through all zones of usable-quality groundwater.
2. Centralizers must be used through all usable-quality waters. Refer to Rule 13(b)(2)(F).
3. Notify District Office 8 hours prior to setting casing.

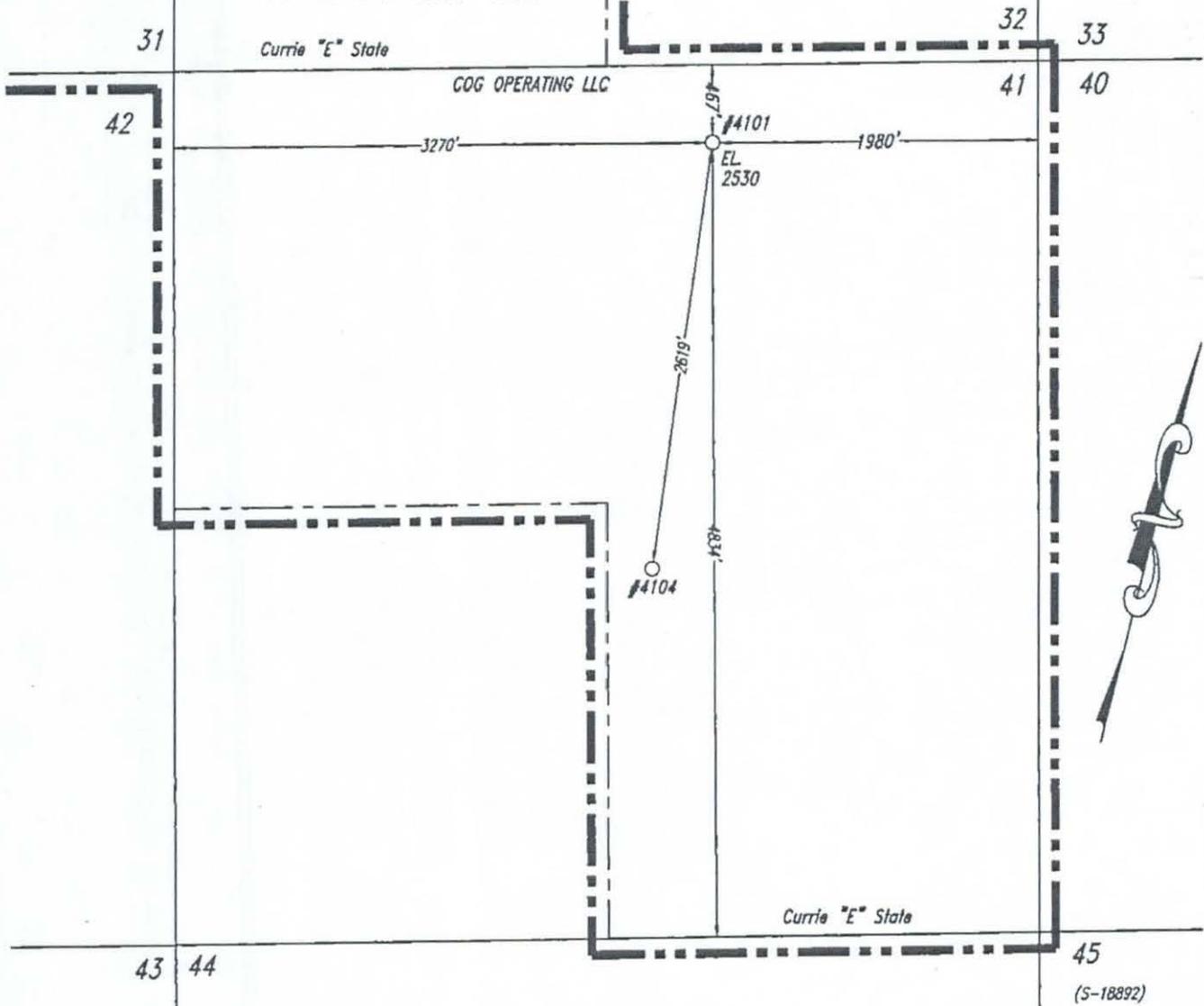
Signature: Vickie L. Gotcher Name: Vickie L. Gotcher Date: 06/13/2013 Phone: 432-818-2249

**IF CEMENT IS NOT CIRCULATED TO THE GROUND SURFACE AS REQUIRED BY THIS EXCEPTION, YOU MUST IMMEDIATELY CONTACT THE DISTRICT 7C OFFICE AT 325-857-7450, AND FOLLOW THE PROCEDURES AS SET OUT IN RULE 13(B)(2)(g)(III) DR AS RECOMMENDED BY THE DISTRICT OFFICE.**

RRC District Office Action:  
 Approved  Approved as Modified  Denied By: [Signature] Date: 6-13-13  
 Remarks/Modifications: Critical Zone Slurry required across the water board

RRC Use Only ▶

Block 32, T-4-S,  
T. & P. RR. Co.



Note: Survey Reconstruction filed in the Office of Luchini and Mertz Land Surveying Company.  
 Note: All bearings and coordinates shown are based on the Texas Coordinate System of 1927, Central Zone.  
 A combined grid factor of 0.9998632 must be divided into Section Line distances to obtain a true horizontal distance.  
 Note: NAD '27 Coordinates & Latitude/Longitude on well location in Section 41.  
 Note: Well location is approximately 9.5 miles southeast of Garden City.

#4101  
 X: 1691088.58 Longitude: 31.82404566'  
 Y: 786018.37 Longitude: -101.32788243'  
 Latitude: 31°49'26.56"N Longitude: 101°19'40.38"W

Railroad Commission Permit Plat

COG OPERATING LLC  
 Currie "E" State Lease  
 the SW/4 of Section 30, the N/2 & SE/4 of Section 31,  
 the SW/4 of Section 32 & the N/2 & SE/4 of Section 41,  
 Block 32, T-4-S, T. & P. RR. Co.,  
 Glasscock County, Texas

Scale: 1" = 1000'



April 24, 2013

130424D

P. O. Box 1963 Midland, Texas 79702 (432) 684-6728 Fax 686-1845

File No. MF 112153  
PRC Form 173-35870

Date Filed: 10-16-14

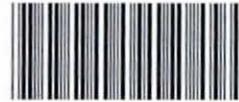
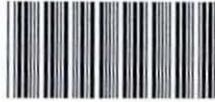
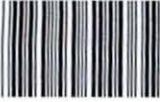
Jerry E. Patterson, Commissioner

By JF

MF 112153  
6685



( KEEP THIS COPY FOR YOUR RECORDS )



### DIVISION ORDER

To: Plains Marketing L.P.  
P.O. Box 4648  
Houston, TX 77210-4648

Property Name: CURRIE E STATE 4102  
Operator: COG OPERATING LLC  
County and State: GLASSCOCK, TX  
Production: OIL / CONDENSATE ( GAS )

Date: 02/13/2014  
Property Descr: SEE EXHIBIT 'A'  
Effective 7 A.M.: 01/01/2014  
Decimal Interest: 0.00546030  
Type of Interest: RI  
ROYALTY INTEREST

Owner Number  
**0062639**  
Property Number:  
**01 196189**

Owner Name and Address: COMMISSIONER GENERAL LD OFFICE  
STATE OF TEXAS  
1700 NORTH CONGRESS AVENUE  
AUSTIN, TX 78701

COMMISSIONER GENERAL LD OFFICE  
STATE OF TEXAS  
1700 NORTH CONGRESS AVENUE  
AUSTIN, TX 78701

[Correspondence Address]

[Remittance Address]

The undersigned severally and not jointly certifies the ownership of their decimal interest in production or proceeds as described above payable by Plains Marketing, L.P. (hereinafter called "Payor").

Payor shall be notified, in writing, of any change in ownership, decimal interest, or payment address. All such changes shall be effective the first day of the month following receipt of such notice.

Payor is authorized to withhold payment pending resolution of a title dispute or adverse claim asserted regarding the interest in production claimed herein by the undersigned. The undersigned agrees to reimburse Payor any amount attributable to an interest to which the undersigned is not entitled. Unless otherwise required by law, Payor shall not be required to pay interest on payments withheld due to a title dispute or adverse claim.

Payments of less than \$25.00 may be accrued before disbursement until the total amount equals \$25.00 or more, or until December 31 of each year, whichever occurs first.

This Division Order does not amend any lease or operating agreement between the undersigned and the lessee or operator or any other contracts for the purchase of oil or gas.

The undersigned will be paid in accordance with the division of interests set out above. As to oil and/or condensate, the Payor shall pay all parties at the price agreed to by the operator for oil and/or condensate to be sold pursuant to this division order. Payor shall compute quantity and make corrections for gravity and temperature and make deductions for impurities. As to gas, the undersigned will be paid in accordance with the division of interest set forth herein. The Payor will pay all parties for their respective interest in the gas proceeds paid to Payor by the operator for disbursement at the price and upon the terms agreed to by the operator for the gas marketed by the operator. Payor is a disbursement service provider only and does not purchase the gas nor take title to the gas. The operator is responsible for marketing gas produced from the property described in the attached property description. Payor does not assume any obligations of the lessee or operator under any oil and gas lease, gas sales contract or other agreement to which Payor is not a party.

In addition to the terms and conditions of this Division Order, the undersigned and Payor may have certain statutory rights under the laws of the state in which the property is located.

Special Clauses/Requirements: If applicable, see Exhibit 'A'.

Owner Social Security # or Taxpayer ID #:   
Owner Daytime Telephone #: \_\_\_\_\_  
Owner FAX #: \_\_\_\_\_  
Email Address: \_\_\_\_\_

Owner BY: \_\_\_\_\_  
Signature: OWNER #: 0062639

Signature of two Witnesses/Attest \_\_\_\_\_

TITLE: \_\_\_\_\_

**FEDERAL LAW REQUIRES YOU TO FURNISH YOUR SOCIAL SECURITY OR TAXPAYER IDENTIFICATION NUMBER. FAILURE TO COMPLY WILL RESULT IN 28% TAX WITHHOLDING AND WILL NOT BE REFUNDABLE BY PAYOR.**

2014

( KEEP THIS COPY FOR YOUR RECORDS )

**EXHIBIT 'A'**

**PROPERTY NUMBER: 01 196189**

**OWNER: 0062639**

<u>OWNER</u>	<u>NAME/ADDRESS</u>	<u>SSN/TIN</u>	<u>INTEREST</u>	<u>TYPE</u>	<u>PAY ST</u>	<u>EFFECTIVE</u>	<u>CLAUSES</u>	<u>REQUIREMENTS</u>
0062639	COMMISSIONER GENERAL LD OFFICE STATE OF TEXAS 1700 NORTH CONGRESS AVENUE AUSTIN, TX 78701	[REDACTED]	0.00546030	RI	3U	01/01/2014	1	N/A

**CLAUSES**

- 1 EFFECTIVE WITH JANUARY 2014 PRODUCTION, PLAINS MARKETING, L.P. WAS DESIGNATED AS OIL PURCHASER FOR THE CURRIE E STATE 4102 LEASE BY THE OPERATOR, COG OPERATING LLC. THIS DIVISION ORDER WAS PREPARED BASED ON INFORMATION PROVIDED BY THE OPERATOR.

LEGAL DESCRIPTION

NW/4 SECTION 41, BLOCK 32, T-4-S, T&P RR CO SURVEY  
GLASSCOCK COUNTY, TEXAS



# GAS DIVISION ORDER

**YOUR FILE COPY**

Property Number: 424212.4102.1  
 Property Name: CURRIE "E" STATE #4102 MF-112153

Date Prepared: 2/15/2014  
 Effective Date: Date of First Sales or Date of Last Settlement

Operator: COG OPERATING LLC  
 County/State: Glasscock, TX  
 Property Description: NW/4 OF NW/4 SEC 41, BLK 32, T-4-S T&P RR SVY  
 Production: Oil \_\_\_ Gas  Other \_\_\_

<b>Owner Name:</b>	TEXAS GENERAL LAND OFFICE	<b>Owner Number:</b>	001523
<b>Address:</b>	1700 N. CONGRESS AVENUE STE 935	<b>Type of Interest:</b>	RI
	AUSTIN, TX 78701-1495		
<b>Phone #:</b>	512-463-5001	<b>Interest:</b>	0.00546030

The undersigned certifies the ownership of their decimal in production or proceeds as described above payable by (Payor).  
 COG OPERATING LLC

Payor shall be notified, in writing, of any change in ownership, decimal interest, or payment address. All such changes shall be effective the first day of the month following receipt of such notice.

Payor is authorized to withhold payment pending resolution of a title dispute or adverse claim asserted regarding the interest in production claimed herein by the undersigned.

The undersigned agrees to indemnify and reimburse Payor any amount attributable to an interest to which the undersigned is not entitled.

Payor may accrue proceeds until the total amount equals \$ 25.00, or pay annually, whichever occurs first, or as required by applicable state statutes.

This Division Order does not amend any lease or operating agreement between the undersigned and the lessee or operator or any other contracts for the purchase of oil or gas.

In addition to the terms and conditions of this Division Order, the undersigned and Payor may have certain statutory rights under the laws of the state in which the property is located.

	Witness:
Owner(s) Signature: _____	_____
Owner(s) Printed Name & Title _____	_____
Owner(s) Tax ID/SS No.: _____	
Owner(s) Daytime Telephone No: _____	
Owner(s) FAX Telephone No.: _____	

**IMPORTANT: TO AVOID DELAY IN PAYMENT, YOUR SOCIAL SECURITY NUMBER OR TAX IDENTIFICATION NUMBER MUST BE SHOWN ABOVE. FEDERAL LAW REQUIRES YOU TO FURNISH YOUR SOCIAL SECURITY OR TAXPAYER IDENTIFICATION NUMBER. FAILURE TO COMPLY WILL RESULT IN TAX WITHHOLDING IN ACCORDANCE WITH FEDERAL LAW, WHICH WILL NOT BE REFUNDABLE BY PAYOR.**

**KP/TO**



TEXAS GENERAL LAND OFFICE  
GEORGE P. BUSH, COMMISSIONER

January 28, 2015

Plains Marketing L.P.  
Attn: Muriel Frazier  
P.O. Box 4648  
Houston, Texas 77210

Re: State of Texas Division Orders

Dear Muriel,

The Texas General Land Office (GLO) has received your Division Orders for State leases described in Exhibit "A" attached hereto. These Division Orders have been filed in the appropriate mineral files.

The payment of royalties attributable to state-owned mineral and royalty interests is set by contract and applicable statutes and rules. The execution of division orders may, in some cases, affect the manner in which such payments are made or calculated. Therefore, Title 31, §9.32, of the Texas Administrative Code specifies that GLO staff cannot execute a division order or bind the state to any terms contained within it.

Subject to applicable state law and the state's right to take its production in-kind, the GLO acquiesces to the sale of oil and gas in accordance with the terms and conditions set out in the oil and gas lease. If you have questions concerning this matter, please feel free to e-mail me at [brandon.nicholson@glo.texas.gov](mailto:brandon.nicholson@glo.texas.gov)

Thank you,

Brandon Nicholson  
Texas General Land Office  
Energy Resources, Mineral Leasing

Enclosure

Exhibit "A"

Attached to letter dated January 28, 2015 from The Texas General Land Office

State Lease/Unit No.	Unit Name	Well No.	RI	Property No.
MF 112652	Hart	3	0.125	01 196355
MF 029514	Johnson State		0.0625	01 196429
MF 116687	Crews-Mast 8A	3, 4, 6	0.125	01 202148
MF 115682	12th Man State		0.125	01 202113
Unit 6685	Currie 'E' State	4102	0.054603	01 196189
Unit 6815	Currie 'A' State	4510	0.01230032	01 196242

ite No. MF 112153 33.  
DIVISION order

Date Filed: 2-18-14  
Jerry E. Patterson, Commissioner

by JK

**DO NOT DESTROY**



**Texas General Land Office  
UNIT AGREEMENT MEMO**

UPA158947

Unit Number 7654  
 Operator Name COG Operating LLC Effective Date 01/29/2014  
 Customer ID C000044811 Unitized For Oil And Gas  
 Unit Name Currie EA State 3007 Unit Term  
 County 1 Glasscock RRC District 1 08 Old Unit Number Inactive Status Date  
 County 2 RRC District 2  
 County 3 RRC District 3  
 County 4 RRC District 4  
 Unit type Permanent  
 State Net Revenue Interest Oil 0.01450375  
 State Part in Unit 0.05801498  
 Unit Depth Allow All Depths Well  
 From Depth Formation  
 To Depth Participation Basis Surface Acreage  
 If Exclusions Apply: See Remarks

Lease Number	Tract No	Lease Acres in Unit	Total Unit Acres	Tract Participation	O/G	Lease Royalty	NRI of Lease in Unit	Royalty Rate Reduction Clause
MF112153	1	9.370000	161.510000	0.05801498	O/G	0.25000000	0.01450375	No

API Number  
4217336236

Remarks:

HROW unit

Prepared By: MB Prepared Date: 9/3/15  
 GLO Base Updated By: MB GLO Base Date: 9/3/15  
 RAM Approval By: JW RAM Approval Date: 9-3-15  
 GIS By: MC GIS Date: 9-8-15  
 Well Inventory By: MB WI Date: 9/3/15

# Pooling Committee Report

To: School Land Board

UPA158947

Date of Board Meeting:

Unit Number: 7654

Effective Date: 01/29/2014

Unit Expiration Date:

Applicant: COG Operating LLC

Attorney Rep:

Operator: Cog Operating Llc, Midland

Unit Name: Currie EA State 3007

Field Name: GARDEN CITY, S. (WOLFCAMP)

County:

<u>Lease Type</u>	<u>Lease Number</u>	<u>Lease Royalty</u>	<u>Expiration Date</u>	<u>Lease Term</u>	<u>Lease Acres</u>	<u>Lease Acres In Unit</u>	<u>Royalty Participation</u>
HROW	MF112153	0.25000000	04/05/2014	3 years	39.740000	9.370000	0.01450375

<b>Private Acres:</b>	152.140000
<b>State Acres:</b>	9.370000
<b>Total Unit Acres:</b>	161.510000

<b>Participation Basis:</b>	Surface Acreage
Surface Acreage	
<b>State Acreage:</b>	5.80%
<b>State Net Revenue Interest:</b>	1.45%

<b>Unit Type:</b>	<b>Unitized for:</b>
Permanent	Oil And Gas
<b>Term:</b>	

<b>RRC Rules:</b>	<b>Spacing Acres:</b>
Yes	



**Highway Right-of-Way Unit Designation Form**

Texas General Land Office  
Jerry Patterson, Commissioner  
1700 North Congress Avenue  
Austin, Texas 78701-1495

**OPERATOR INFORMATION**

Contact Name Mr. Joe Dutton Phone (432) 818-2211  
Name of Pooled Unit Currie E State 3007 Currie EA State 3007  
Operator of Pooled Unit COG Operating LLC County Glasscock

Effective Date of Unit Declaration: January 29, 2014

**HROW LEASE(S) IN UNIT**

HRWO State Lease No.	Lease Date	Term	HROW Royalty	Total Acreage in HROW Lease	HROW Lease Acreage in Unit
MF-112153	4/5/2011	3 years	1/4	75.32	9.37

Total Acreage In Pooled Unit 161.51 Ac.

State's Royalty Revenue Interest in Unit: 1.450374% Total HRWO Acreage In Unit 9.37 Ac.

Total Private Acreage In Unit (Total Acreage - Total HROW Acreage) 152.14 Ac.

Attach a plat showing the pooled unit outline, unit well(s) location, and HROW lease tracts.

Type of Mineral Pooled:  Oil  Gas  Oil & Gas

Pooled Interval: All Depths  Top Depth \_\_\_\_\_ Base Depth \_\_\_\_\_

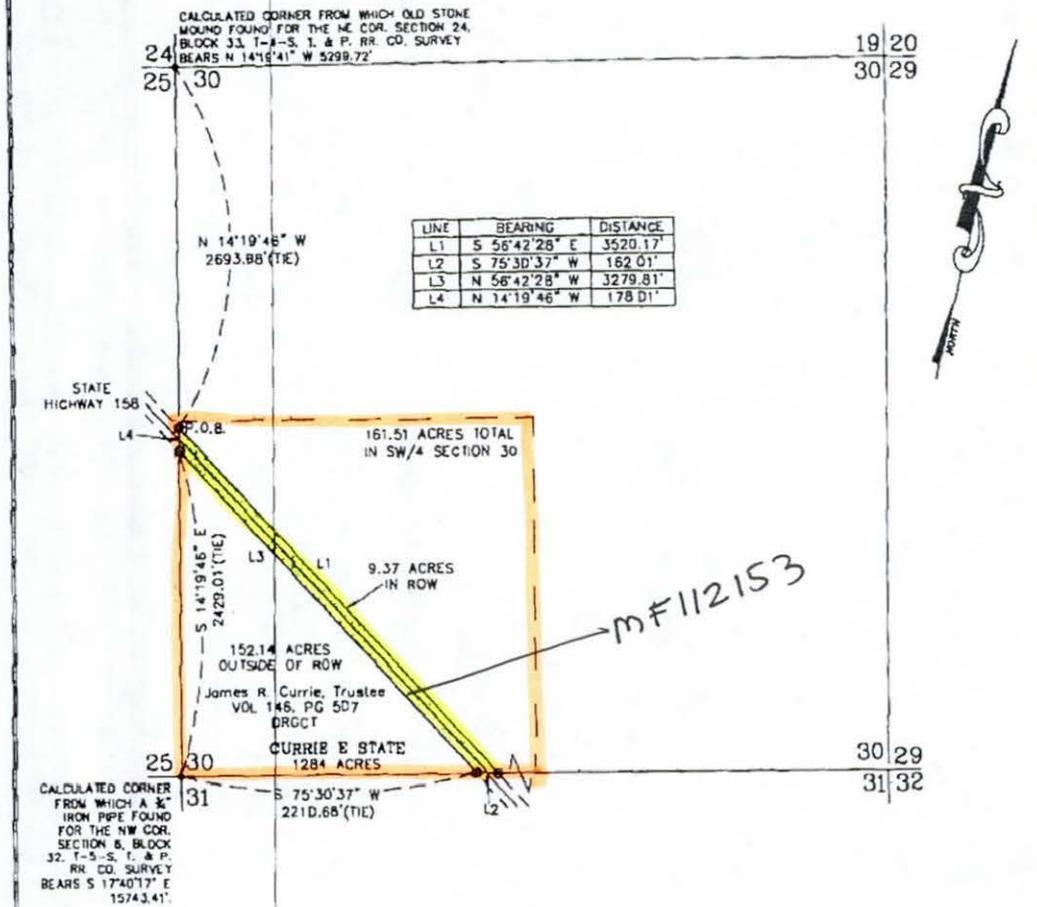
If pooling a Formation(s) please list Formation Name: All Formations

RRC Field Name(s): Garden City, S. (Wolfcamp Field)

**UNIT WELL(S)**

API #	<u>42-173-36236</u>	RRC ID#	<u>166150</u>
API #	_____	RRC ID#	_____
API #	_____	RRC ID#	_____
API #	_____	RRC ID#	_____

BLOCK 32, T-4-S,  
T. & P. RR. CO. SURVEY  
GLASSCOCK COUNTY, TEXAS



MF112153

SEE SHEET 2 OF 2 FOR A FIELD NOTE DESCRIPTION OF THIS TRACT OF LAND

LEGEND

- - Denotes Set Spike with metal washer Marked "WEST CO. MIDLAND"
- - Denotes Calculated Corner
- - Denotes Producing Well Location
- (S 27758) - Denotes General Land Office File No.
- - - - - Denotes Lease Line



NOTE

- 1) Plane Coordinates, Bearings and Distances shown herein are Lambert Grid and Conform to the "Texas Coordinate System", Texas Central Zone, North American Datum of 1983. Acreages shown herein are mean surface values
- 2) See information filed in the office of this Surveyor which describes the reconstruction of this survey.

I HEREBY CERTIFY THAT THIS PLAN AND THE NOTES TAKEN IN THE FIELD IN A BONA FIDE MANNER UNDER MY SUPERVISION.

*Wade A. Mertz*  
WADE A. MERTZ  
TEXAS R.F.S. NO. 4082



**WEST COMPANY**  
of Midland, Inc.

110 W. LOUISIANA, STE. 110  
MIDLAND, TEXAS, 79701-3414  
OFFICE: (432)687-0885 FAX: (432)687-0888  
Web Page: www.team-west.com

COG OPERATING, LLC

TRACT SURVEY  
9.37 ACRES IN STATE HIGHWAY 158 ROW  
OUT OF THE SW/4 OF  
SECTION 30, BLOCK 32, T-4-S,  
T. & P. RR. CO. SURVEY  
GLASSCOCK CO., TEXAS

Drawn By: D.E.H.	Date: January 6, 2014
Scale: 1"=1000'	Revised:
Sheet 1 of 2	Field Note Book: COG 1002/3-4
W.O. No: 2013-0879-10	Dwg. No: 2013-0879-10_SW-4_30.DWG

© COPYRIGHT 2014 ALL RIGHTS RESERVED

DESIGNATION OF POOLED UNIT

#141058  
 COG Operating LLC  
 Currie "E" State 3007 Pooled Unit  
 Glasscock County, Texas

This Designation of Pooled Unit is made and entered into effective as of January 29, 2014, by and between the undersigned owners of the oil and gas leases described in Exhibit "A" hereof embracing lands in Glasscock County, Texas and by and between the undersigned owners of royalty in and under the lands described in Exhibit "A" hereof.

## WITNESSETH:

1. Each of said oil and gas leases embraces a portion of the lands within the pooled unit and collectively embraces the entire pooled unit.

2. The owners of said oil and gas leases desire to pool the oil and gas leases described in Exhibit "A" hereof (INSOFAR, but only insofar as said oil and gas leases cover and affect lands lying within the unit area).

3. The owners of the royalty in and under the lands described in Exhibit "A" hereof hereby consent to this Designation of Pooled Unit (INSOFAR, but only insofar as said oil and gas leases cover and affect lands lying within the unit area).

4. The unit area shall consist of 161.51 acres, more or less, in Glasscock County, Texas, as described and referred to in Exhibit "A" hereto as to all depths and formations.

5. The owners of said oil and gas leases commit all of their interest and all interest over which they hold pooling privilege or power by virtue of said oil and gas leases, amendment and/or ratifications thereof, other instruments or by operation of law and which are within the above described unit area, and by these presents do hereby pool said oil and gas leases, the leasehold rights, and royalty interest therein, insofar as said leases, rights and interest cover and affect the lands described in Exhibit "A" for the drilling and production of oil, gas, condensate, casinghead gas and other hydrocarbons hereinafter at times referred to as "pooled mineral."

(a) The unit shall be operated as an entirety for the exploration, development, and production of the pooled mineral, rather than as separate tracts.

(b) All drilling operations, reworking or other operations with respect to the pooled mineral on lands within the unit shall be considered as though the same were on each separate tract in the unit, regardless of the actual location of the well or wells thereon, for all purposes under the terms of the respective leases or other contracts thereon and this agreement.

(c) Production of the pooled mineral from the unit allocated to each separate tract, respectively, as hereinafter provided, shall be deemed to have been produced from each separate tract in the unit, regardless of the actual location of the well or wells thereon, for all purposes under the terms of the respective leases or other contracts thereon and this agreement.

(d) All rights to the production of the pooled mineral from the unit, including royalties and other payments, shall be determined and governed by the lease or other contract pertaining to each separate tract, respectively, based upon the production so allocated to such tract only, and in lieu of the actual production of the pooled mineral therefrom.

6. For the purposes of computing the royalty to which each Lessor or royalty owner shall be entitled on production of oil or gas and condensate there shall be allocated to each tract committed to the above referred unit, that pro rata portion from the pooled mineral produced from the pooled unit which the number of surface acres contained in each such tract bears to the total number of surface acres included in the pooled unit.

7. Notwithstanding anything contained elsewhere in this Designation of Pooled Unit, it is expressly understood and agreed that nothing contained in this Designation of Pooled Unit shall modify or affect (i) the continuous development provisions, the horizontal and vertical lease

Designation of Pooled Unit  
Currie "E" State 3007 Pooled Unit

termination provisions or the separate lease provisions contained in Lease No. 1 described on Exhibit "A" attached hereto ("Lease 1"); or (ii) the Lessee's implied covenant to reasonably develop the lands covered by Lease 1, if any. It is further expressly understood and agreed that upon partial termination of Lease 1 pursuant to its terms as to any portion of Tract No. 1 described on Exhibit "A" attached hereto, neither the terminated portion of Lease 1 nor that portion of the mineral interest in said Tract No. 1 that was subject to Lease 1 prior to such partial termination shall remain subject to the terms of this Designation of Pooled Unit. Provided, notwithstanding (i) and (ii) above or other language of this paragraph, a unit well shall be deemed a well on Lease No. 1 for purposes of: (a) extending the continuous development period of Lease No. 1, if and to the extent, but only if and to the extent, it would do so if drilled on Lease No. 1 in the absence of pooling and (b) determining compliance with Lease No. 1's implied duty of reasonable development, if any.

The declaration may be executed in counterpart, none of which needs to be executed by all parties, or may be ratified or consented to by separate instruments and shall be binding upon both parties who have executed such a counterpart, ratification or consent.

IN WITNESS WHEREOF, the parties hereto have executed this agreement upon the respective dates of their acknowledgments.

Lessee under Leases 1 & 2:

**COG Operating LLC**

**Chevron Midcontinent, L.P.**

By: Chevron Midcontinent Operations LLC,  
General Partner

By: Mona D. Ables  
Mona D. Ables  
Vice President of Land

By: \_\_\_\_\_  
D. K. Beckham  
Attorney-in-Fact

**Baqash Resources LP**

By: Baqash Resources Management LLC.  
General Partner

**Tekar Tech, L.P.**

By: TCB Management, LLC.  
General Partner

Damian G. Barrett  
Damian G. Barrett, Manager

Terence Craig Burkes  
Terence Craig Burkes, President

**L & K Gates Resources LP**

By: Lawrence C. Gates  
Lawrence C. Gates, Manager

\_\_\_\_\_  
Kathrin A. Lewis

\_\_\_\_\_  
Sharon F. Temple

Designation of Pooled Unit  
Currie "E" State 3007 Pooled Unit

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IN WITNESS WHEREOF, the parties hereto have executed this agreement upon the respective dates of their acknowledgments.

Lessee under Leases 1 & 2:

**COG Operating LLC**

**Chevron Midcontinent, L.P.**

By: Chevron Midcontinent Operations LLC,  
General Partner

By: Mona D. Ables  
Mona D. Ables  
Vice President of Land

By: D. K. Beckham  
D. K. Beckham  
Attorney-in-Fact

**Baqash Resources LP**

**Tekar Tech, L.P.**

By: Baqash Resources Management LLC.  
General Partner

By: TCB Management, LLC.  
General Partner

\_\_\_\_\_  
Damian G. Barrett, Manager

Terence Craig Burkes  
Terence Craig Burkes, President

**L & K Gates Resources LP**

By: Lawrence C. Gates  
Lawrence C. Gates, Manager

\_\_\_\_\_  
Kathrin A. Lewis

\_\_\_\_\_  
Sharon F. Temple

Designation of Pooled Unit  
Currie "E" State 3007 Pooled Unit

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IN WITNESS WHEREOF, the parties hereto have executed this agreement upon the respective dates of their acknowledgments.

Lessee under Leases 1 & 2:

**COG Operating LLC**

**Chevron Midcontinent, L.P.**

By: Chevron Midcontinent Operations LLC,  
General Partner

By: Mona D. Ables  
Mona D. Ables  
Vice President of Land

By: \_\_\_\_\_  
D. K. Beckham  
Attorney-in-Fact

**Baqash Resources LP**  
By: Baqash Resources Management LLC,  
General Partner

**Tekar Tech, L.P.**  
By: TCB Management, LLC,  
General Partner

\_\_\_\_\_  
Damian G. Barrett, Manager

Terence Craig Burkes  
Terence Craig Burkes, President

**L & K Gates Resources LP**

By: Lawrence C. Gates  
Lawrence C. Gates, Manager

Kathrin A. Lewis  
Kathrin A. Lewis

\_\_\_\_\_  
Sharon F. Temple

Designation of Pooled Unit  
Currie "E" State 3007 Pooled Unit

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The declaration may be executed in counterpart, none of which needs to be executed by all parties, or may be ratified or consented to by separate instruments and shall be binding upon both parties who have executed such a counterpart, ratification or consent.

IN WITNESS WHEREOF, the parties hereto have executed this agreement upon the respective dates of their acknowledgments.

Lessee under Leases 1 & 2:**COG Operating LLC**

By: Mona D. Ables  
Mona D. Ables  
Vice President of Land

**Chevron Midcontinent, L.P.**

By: Chevron Midcontinent Operations LLC,  
General Partner

By: \_\_\_\_\_  
D. K. Beckham  
Attorney-in-Fact

**Baqash Resources LP**

By: Baqash Resources Management LLC.  
General Partner

Damian G. Barrett  
Damian G. Barrett, Manager

**Tekar Tech, L.P.**

By: TCB Management, LLC.  
General Partner

Terence Craig Burkes  
Terence Craig Burkes, President

**L & K Gates Resources LP**

By: Lawrence C. Gates  
Lawrence C. Gates, Manager

\_\_\_\_\_  
Kathrin A. Lewis

Sharon F. Temple  
Sharon F. Temple

Designation of Pooled Unit  
Currie "E" State 3007 Pooled Unit

**Royalty Owners Under Lease 1:**

**CCH Ranch Investments LP**  
By: CCH Ranch Management LLC  
General Partner

By: Cynthia C. Howard  
Cynthia C. Howard  
President

**DCT Ranch Investments LP**  
By: DCT Ranch Management LLC  
General Partner

By: Darla C. Taylor  
Darla C. Taylor  
President

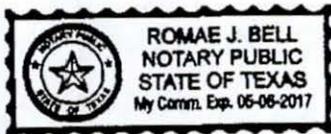
**ACKNOWLEDGMENTS**

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was acknowledged before me on 31<sup>st</sup> day of January, 2014, by **MONA D. ABLES**, as Vice President of Land of **COG OPERATING LLC**, a Delaware limited liability company on behalf of said limited liability company.

Romae J. Bell  
Notary Public, State of Texas



STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was acknowledged before me on \_\_\_ day of \_\_\_\_\_, 2014, by **D. K. BECKHAM**, as Attorney-in-Fact for Chevron Midcontinent Operations LLC, a Delaware limited liability company, as General Partner of **CHEVRON MIDCONTINENT, L.P.**, a Texas limited partnership, on behalf of said limited partnership..

\_\_\_\_\_  
Notary Public, State of Texas

My commission expires:  
\_\_\_\_\_

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was acknowledged before me on 20<sup>th</sup> day of February, 2014, by **TERENCE CRAIG BURKES**, as President for TCB Management, LLC, a Texas limited liability company, as General Partner of **TEKAR TECH, L.P.**, a Texas limited partnership, on behalf of said limited partnership.

Romae J. Bell  
Notary Public, State of Texas



Designation of Pooled Unit  
Currie "E" State 3007 Pooled Unit

**Royalty Owners Under Lease 1:**

**CCH Ranch Investments LP**  
By: CCH Ranch Management LLC  
General Partner

By: Cynthia C. Howard  
Cynthia C. Howard  
President

**DCT Ranch Investments LP**  
By: DCT Ranch Management LLC  
General Partner

By: Darla C. Taylor  
Darla C. Taylor  
President

**ACKNOWLEDGMENTS**

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was acknowledged before me on 31<sup>st</sup> day of January, 2014, by **MONA D. ABLES**, as Vice President of Land of **COG OPERATING LLC**, a Delaware limited liability company on behalf of said limited liability company.



Romae J. Bell  
Notary Public, State of Texas

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was acknowledged before me on 3<sup>rd</sup> day of March, 2014, by **D. K. BECKHAM**, as Attorney-in-Fact for Chevron Midcontinent Operations LLC, a Delaware limited liability company, as General Partner of **CHEVRON MIDCONTINENT, L.P.**, a Texas limited partnership, on behalf of said limited partnership.



[Signature]  
Notary Public, State of Texas

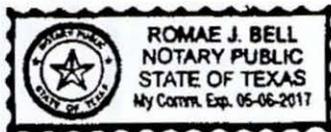
My commission expires:

5/5/2018

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was acknowledged before me on 20<sup>th</sup> day of February, 2014, by **TERENCE CRAIG BURKES**, as President for TCB Management, LLC, a Texas limited liability company, as General Partner of **TEKAR TECH, L.P.**, a Texas limited partnership, on behalf of said limited partnership.



Romae J. Bell  
Notary Public, State of Texas

Designation of Pooled Unit  
Currie "E" State 3007 Pooled Unit

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was acknowledged before me on 5<sup>th</sup> day of March, 2014, by **DAMIAN G. BARRETT**, as Manager for Baqash Resources Management LLC, a Texas limited liability company, as General Partner of BAQASH RESOURCES LP, a Texas limited partnership, on behalf of said limited partnership.

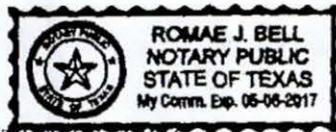


Romae J. Bell  
Notary Public, State of Texas

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was acknowledged before me on 20<sup>th</sup> day of February, 2014, by **LAWRENCE C. GATES**, as Manager of **L & K GATES RESOURCES LP**, a Texas limited partnership, on behalf of said limited partnership.



Romae J. Bell  
Notary Public, State of Texas

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was acknowledged before me on \_\_\_ day of \_\_\_\_\_, 2014, by **KATHRIN A. LEWIS**.

\_\_\_\_\_  
Notary Public, State of Texas

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was acknowledged before me on 5<sup>th</sup> day of March, 2014, by **SHARON F. TEMPLE**.



Romae J. Bell  
Notary Public, State of Texas

Designation of Pooled Unit  
Currie "E" State 3007 Pooled Unit

STATE OF TEXAS

COUNTY OF MIDLAND

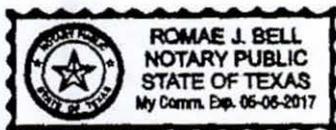
This instrument was acknowledged before me on \_\_\_\_\_ day of \_\_\_\_\_, 2014,  
by **DAMIAN G. BARRETT**, as Manager for Baqash Resources Management LLC, a Texas  
limited liability company, as General Partner of BAQASH RESOURCES LP, a Texas limited  
partnership, on behalf of said limited partnership.

\_\_\_\_\_  
Notary Public, State of Texas

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was acknowledged before me on 20<sup>th</sup> day of February, 2014,  
by **LAWRENCE C. GATES**, as Manager of **L & K GATES RESOURCES LP**, a Texas  
limited partnership, on behalf of said limited partnership.

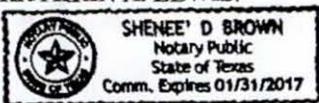


*Romae J. Bell*  
Notary Public, State of Texas

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was acknowledged before me on 21<sup>st</sup> day of FEBRUARY, 2014,  
by **KATHRIN A. LEWIS**.



*Shene'e D. Brown*  
Notary Public, State of Texas

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was acknowledged before me on \_\_\_\_\_ day of \_\_\_\_\_, 2014,  
by **SHARON F. TEMPLE**.

\_\_\_\_\_  
Notary Public, State of Texas

My commission expires:  
\_\_\_\_\_

Designation of Pooled Unit  
Currie "E" State 3007 Pooled Unit

ACKNOWLEDGMENTS

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was personally acknowledged before me on 12th day of February, 2014, by **CYNTHIA C. HOWARD**, President of CCH Ranch Management LLC, General partner of **CCH RANCH INVESTMENTS LP**, a Texas limited partnership, on behalf of said limited partnership.



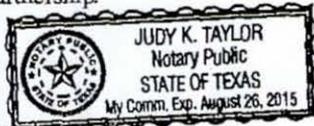
Judy K. Taylor  
Notary Public, State of Texas

My commission expires:  
\_\_\_\_\_

STATE OF TEXAS

COUNTY OF MIDLAND

This instrument was personally acknowledged before me on 19th day of February, 2014, by **DARLA C. TAYLOR**, President of DCT Ranch Management LLC, General Partner of **DCT RANCH INVESTMENTS LP**, a Texas limited partnership, on behalf of said limited partnership.



Judy K. Taylor  
Notary Public, State of Texas

My commission expires:  
\_\_\_\_\_

Designation of Pooled Unit  
Currie "E" State 3007 Pooled Unit

**EXHIBIT "A"**  
**DESIGNATION OF POOLED UNIT**

**COG Operating LLC**  
**Currie "E" State 3007 Pooled Unit**  
**Glasscock County, Texas**

Description of Pooled Unit

**Currie "E" State 3007 Unit**

SW/4 of Section 30, Block 32, Township 4 South, T & P Ry. Co. Survey, A-964, containing 161.51 acres, more or less:

Tract No. 1

A tract of land containing 152.14 acres, more or less, being all of SW/4 of Section 30, Block 32, Township 4 South, T & P Ry. Co. Survey, A-964, containing 161.51 acres, more or less, SAVE AND EXCEPT 9.37 acres, more or less, being the right-of-way of State Highway 158, described more particularly by metes and bounds in Tract No. 2 below.

Tract No. 2

A tract of land containing 9.37 acres, more or less, out of SW/4 of Section 30, Block 32, Township 4 South, T&P Ry. Co. Survey, being the right-of-way of State Highway 158, described more particularly by metes and bounds as shown on the plat attached hereto:

Leases Committed to Pooled Unit:

Lease No. 1

Lessor: James R. Currie, Individually and as Trustee, joined by his wife, Jimmie R. Currie; Cynthia C. Howard; and Darla C. Taylor.

Lessee: Henry Petroleum LP

Date: December 5, 2005

Recording: Memorandum of Lease recorded Volume 89, Page 652 of Official Public Records of Glasscock County, Texas

Description: Insofar as and only insofar as said lease covers Tract 1 described above.

Lease No. 2

Lessor: Commissioner of the General Land Office of the State of Texas  
Lease No. (MF 112153)

Lessee: COG Operating LLC

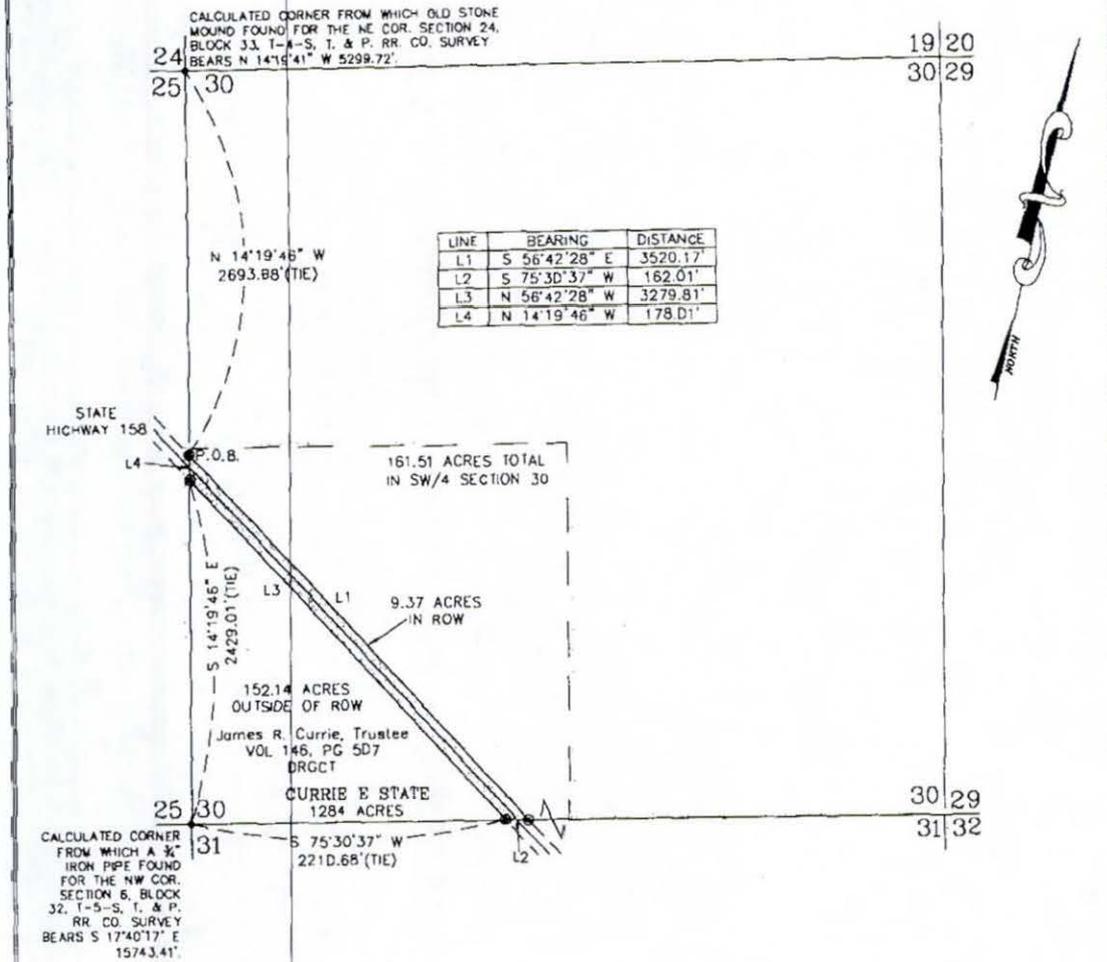
Date: April 5, 2011

Recording: Volume 166, Page 148 of Official Public Records of Glasscock County,  
Texas

Description: Insofar as and only insofar as said lease covers Tract 2 described above.

End of Exhibit "A" to Currie "E" State #3007 Pooled Unit - Designation of Pooled Unit

BLOCK 32, T-4-S,  
T. & P. RR. CO. SURVEY  
GLASSCOCK COUNTY, TEXAS



LINE	BEARING	DISTANCE
L1	S 56°42'28" E	3520.17'
L2	S 75°30'37" W	162.01'
L3	N 56°42'28" W	3279.81'
L4	N 14°19'46" W	178.D1'

CALCULATED CORNER FROM WHICH OLD STONE MOUND FOUND FOR THE NE COR. SECTION 24, BLOCK 33, T-4-S, T. & P. RR. CO. SURVEY BEARS N 14°19'41" W 5299.72'

CALCULATED CORNER FROM WHICH A 3" IRON PIPE FOUND FOR THE NW COR. SECTION 6, BLOCK 32, T-4-S, T. & P. RR. CO. SURVEY BEARS S 17°40'17" E 15743.41'

SEE SHEET 2 OF 2 FOR A FIELD NOTE DESCRIPTION OF THIS TRACT OF LAND

- NOTE:
- Plane Coordinates, Bearings and Distances shown hereon are Lambert Grid and Conform to the "Texas Coordinate System", Texas Central Zone, North American Datum of 1983. Acreages shown hereon are mean surface values.
  - See information filed in the office of this Survey which describes the reconstruction of the monument.

I HEREBY CERTIFY THAT THIS PLAN AND NOTES TAKEN IN THE FIELD IN A BONA FIDE MANNER UNDER MY SUPERVISION.

*Waide A. Mertz*  
WAIDE A. MERTZ  
4062  
PROFESSIONAL  
LAND SURVEYOR

**WEST COMPANY**  
of Midland, Inc.

110 W. LOUISIANA, STE. 110  
MIDLAND, TEXAS, 79701-3414  
OFFICE: (432)687-0865, FAX: (432)687-0868  
Web Page: www.team-west.com

- LEGEND
- ⊙ - Denotes Set Spike with metal washer Marked "WEST CO. MIDLAND"
  - - Denotes Calculated Corner
  - - Denotes Producing Well Location
  - (S-27758) - Denotes General Land Office File No.
  - - - - - Denotes Lease Line



**COG OPERATING, LLC**

TRACT SURVEY  
9.37 ACRES IN STATE HIGHWAY 158 ROW  
OUT OF THE SW/4 OF  
SECTION 30, BLOCK 32, T-4-S,  
T. & P. RR. CO. SURVEY  
GLASSCOCK CO., TEXAS

Drawn By: D.E.H.	Date: January 6, 2014
Scale: 1"=1000'	Revised:
Sheet 1 of 2	Field Note Book: COG 1002/3-4
W.O. No: 2013-0879-10	Dwg. No: 2013-0879-10_SW-4_30.DWG

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LEGAL DESCRIPTION

BEING a 9.37 acre tract of land out of a tract belonging to James R. Currie, Trustee, according to Volume 145, Page 507, Deed Records Glasscock County Texas, located in the southwest quarter (SW/4) of Section 30, Block 32, T-4-S, T. & P. RR. Co. Survey, Glasscock County, Texas and being more particularly described as follows:

BEGINNING at a spike with a metal washer marked "WEST CO. MIDLAND" set in the north right-of-way of State Highway 158, and on the west line of said Section 30, for the most northerly corner of this tract, from which the calculated northwest corner of said Section 30 bears N 14°19'45" W, a distance of 2693.88 feet, from said calculated corner, an old stone mound found for the northeast corner of Section 24, Block 33, T-4-S, T. & P. RR. Co. Survey bears N 14°19'41" W, a distance of 5299.72 feet;

THENCE S 55°42'28" E, with the north right-of-way of said State Highway 158, a distance of 3520.17 feet to a spike with a metal washer marked "WEST CO. MIDLAND" set in the north right-of-way of said State Highway 158 and on the south line of the said Section 30 for the most southeasterly corner of this tract;

THENCE S 75°30'37" W, with the south line of said Section 30, a distance of 152.01 feet to a spike with a metal washer marked "WEST CO. MIDLAND" set on the south line of said Section 30 and in the south right-of-way of said State Highway 158, for the most easterly southwest corner of this tract, from which the calculated southwest corner of said Section 30 bears S 75°30'37" W 2210.68 feet, from said calculated corner a 3/4" iron pipe found for the northwest corner of Section 6, Block 32, T-5-S, T. & P. RR. Co. Survey bears S 17°40'17" E 15743.41 feet;

THENCE N 56°42'28" W, with the south right-of-way of said State Highway 158, 3279.81 feet to a spike with a metal washer marked "WEST CO. MIDLAND" set in the south right-of-way of said State Highway 158 and on the west line of said Section 30 for the most northerly southwest corner of this tract;

THENCE N 14°19'46" W, with the west line of said Section 30, 178.01 feet to the POINT OF BEGINNING and containing 9.37 acres of land.

SEE SHEET 1 OF 2 FOR A DETAILED SKETCH OF THIS TRACT OF LAND

NDTE:

- 1) Plane Coordinates, Bearings and Distances shown hereon are Lambert Grid and Conform to the "Texas Coordinate System", Texas Central Zone, North American Datum of 1983. Acreages shown hereon are mean surface values.
- 2) See information filed in the office of this Surveyor which describes the reconstruction of this Tract.

I HEREBY CERTIFY THAT THIS PLAT WAS MADE FROM NOTES TAKEN IN THE FIELD IN A BONA FIDE SURVEY MADE UNDER MY SUPERVISION.



COG OPERATING, LLC

TRACT SURVEY  
9.37 ACRES IN STATE HIGHWAY 158 ROW  
OUT OF THE SW/4 OF  
SECTION 30, BLOCK 32, T-4-S,  
T. & P. RR. CO. SURVEY  
GLASSCOCK CO., TEXAS

Drawn By: D.E.H.	Date: January 6, 2014
Scale: 1"=1000'	Revised:
Sheet 2 of 2	Field Note Book: COG 1002/3-4
W.O. No: 2013-0879-10	Dwg. No: 2013-0879-10_SW-4_30.DWG



WEST COMPANY

of Midland, Inc.  
110 W. LOUISIANA, STE. 110  
MIDLAND TEXAS, 79701-3414  
OFFICE: (432)667-0865 FAX: (432)687-0866  
Web Page: www.team-west.com

FILED  
AT 10:00 O'CLOCK A M  
ON THE 13 DAY OF Mar.  
A.D. 2014  
INS. NO. 141038

STATE OF TEXAS  
COUNTY OF GLASSCOCK

I hereby certify that this instrument was FILED on the date and at the time stamped hereon by me and was duly RECORDED in the Volume and Page of the named RECORDS of Glasscock County, Texas, as stamped hereon by me.



Rebecca Batla  
County Clerk, Glasscock County, Texas

Rebecca Batla  
COUNTY CLERK, GLASSCOCK COUNTY, TEXAS

BY Adriana Kaur DEPUTY

OFFICIAL PUBLIC RECORDS  
VOL. 245 PAGE 566  
RECORDED Mar. 13, 2014

# The State of Texas

HROW Lease  
Revised 8/06

# 7122



## Austin, Texas

PAID-UP  
OIL AND GAS LEASE NO. (MF 112153)  
GENERAL LAND OFFICE  
AUSTIN, TEXAS

THIS AGREEMENT made and entered into by and between the Commissioner of the General Land Office of the State of Texas, whose address is Stephen F. Austin Building, 1700 North Congress, Austin, Texas, 78701, hereinafter called "Lessor", hereunto authorized by the School Land Board, pursuant to the provisions of Chapters 32 and 52 of the Natural Resources Code (hereinafter called N.R.C.), and amendments thereto, and all applicable rules promulgated by the School Land Board and COG Operating, LLC, whose address is 550 W. Texas Ave., Suite 1300, Midland, TX 79701 hereinafter called "Lessee".

1. Lessor, in consideration of **Eleven Thousand Two Hundred Ninety Eight 00/100 (\$ 11,298.00)** receipt of which is hereby acknowledged, and of the covenants and agreements of Lessee hereinafter contained, does hereby grant, lease, and let unto Lessee the land covered hereby for the purposes and with the exclusive right of exploring, drilling, mining and operating for, producing and owning oil, gas, and all other hydrocarbons, produced from the land covered hereby. The land covered hereby, herein called "said land" is located in the County of **Glasscock** State of Texas, and is described as follows:

**75.32** of land, more or less, known as, situated in said **Glasscock** County, Texas, more particularly described in Exhibit "A" attached hereto and made a part hereof together with a plat, attached hereto as Exhibit "B", depicting said right-of-way and surrounding area for purposes of illustration only.

For the purpose of determining the amount of any bonus or other payment hereunder, said land shall be deemed to contain **75.32** acres, whether actually containing more or less, and the above recital of acreage shall be deemed to be the true acreage thereof. Lessor accepts the bonus as lump sum consideration for this lease and all rights and options hereunder.

2. **PRIMARY TERM:** This lease, which is a "paid up" lease requiring no rentals, shall remain in force for a term of **three years, from April 5th, 2011** hereinafter called "primary term", and as long thereafter as operations, as hereinafter defined, are conducted upon said land with no cessation for more than ninety (90) consecutive days.

3. **ROYALTIES:** As royalty Lessee covenants and agrees:

(a) To deliver to the credit of Lessor, in the pipe line to which Lessee may connect its well, the equal **1/4** part of all oil produced and saved by Lessee from said land, or from time to time, at the option of Lessee, to pay Lessor the average posted market price of such **1/4** part of such oil at the wells as of the day it is run to the pipe line or storage tanks, Lessor's interest, in either case, to bear none of the cost of treating oil to render it marketable pipe line oil;

(b) To pay Lessor on gas and casing head gas produced from said land (1) when sold by lessee **1/4** of the amount realized by Lessee, computed at the mouth of the well, or (2) when used by Lessee off said land or in the manufacture of gasoline or other products, the market value, at the mouth of the well, of **1/4** of such gas and casing head gas.

(c) If, at the expiration of the primary term or at any time or times thereafter, there is any well on said land or on lands with which said land or any portion thereof has been pooled, capable of producing oil or gas, and all such wells are shut-in, this lease shall, nevertheless, continue in force as though operations were being conducted on said land for so long as said wells are shut-in, and thereafter this lease may be continued in force as if no shut-in had occurred

(d) Lessee covenants and agrees to use reasonable diligence to produce, utilize, or market the minerals capable of being produced from said wells, but in the exercise of such diligence, Lessee shall not be obligated to install or furnish facilities other than well facilities and ordinary lease facilities of flow lines, separator, and lease tank, and shall not be required to settle labor trouble or to market gas upon terms unacceptable to Lessee.

(e) If at any time or times after the expiration of the primary term, all such wells are shut-in for a period of ninety consecutive days, and during such time there are no operations on said land, then at or before the expiration of said ninety day period, lessee shall pay or tender, by check of lessee, as royalty, the sum of **\$ 25.00 per acre**. Lessee shall make like payments or tenders at or before the end of each anniversary of the expiration of said ninety day period if upon such anniversary this lease is being continued in force solely by reason of the provisions of this paragraph. Each such payment or tender shall be made to the parties who at the time of payment would be entitled to receive the royalties which would be paid under this lease if the wells were producing. Nothing herein shall impair lessee's right to release as provided in paragraph 5 hereof. In the event of assignment of this lease in whole or in part, liability for payment hereunder shall rest exclusively on the then owner or owners of this lease, severally as to acreage owned by each.

(f) All royalties not taken in kind shall be paid to the Commissioner of the General Land Office at Austin, Texas, in the following manner:

Royalty on oil is due and must be received in the General Land Office on or before the 5th day of the second month succeeding the month of production, and royalty on gas is due and must be received in the General Land Office on or before the 15th day of the second month succeeding the month of production, accompanied by the affidavit of the owner, manager, or other authorized agent, completed in the form and manner prescribed by the General Land Office and showing the gross amount and disposition of all oil and gas produced and the market value of the oil and gas, together with a copy of all documents, records or reports confirming the gross production, disposition and market value including gas meter readings, pipeline receipts, gas line receipts and other checks or memoranda of amount produced and put into pipelines, tanks, or pools and gas lines or gas storage, and any other reports or records which the General Land Office may require to verify the gross production, disposition and market value. In all cases the authority of a manager or agent to act for the Lessee herein must be filed in the General Land Office. Each royalty payment shall be accompanied by a check stub, schedule, summary or other remittance advice showing by the assigned General Land Office lease number the amount of royalty being paid on each lease. If Lessee pays his royalty on or before thirty (30) days after the royalty payment was due, the Lessee owes a penalty of 5% on the royalty or \$25.00, whichever is greater. A royalty payment which is over thirty (30) days late shall accrue a penalty of 10% of the royalty due or \$25.00, whichever is greater. In addition to a penalty, royalties shall accrue interest at a rate of 12% per year; such interest will begin accruing when the royalty is sixty (60) days overdue. Affidavits and supporting documents which are not filed when due shall incur a penalty in an amount set by the General Land Office administrative rule which is effective on the date when the affidavits or supporting documents were due. The Lessee shall bear all responsibility for paying or causing royalties to be paid as prescribed by the due date provided herein. Payment of the delinquency penalty shall in no way operate to prohibit the State's right of forfeiture as provided by law nor act to postpone the date on which royalties were originally due. The above penalty provisions shall not apply in cases of title dispute as to the State's portion of the royalty or to that portion of the royalty in dispute as to fair market value. The State shall have first lien upon all oil and gas produced from the area covered by this lease to secure the payment of all unpaid royalty and other sums of money that may become due to the State hereunder.

4. POOLING: (a) Lessee is hereby granted the right, at its option, to pool or unitize any land covered by this lease with any other land covered by this lease, and/or with any other land, lease, or leases, as to any or all minerals or horizons. Units pooled for oil hereunder shall not exceed 160 acres each in area, and units pooled for gas hereunder shall not exceed in area 640 acres each plus a tolerance often percent (10%) thereof, unless oil or gas units of a greater size are allowed under or prescribed by rules of the Railroad Commission of Texas. A unit established hereunder shall be valid and effective for all purposes of this lease even though there may be mineral, royalty, or leasehold interests in lands within

the unit, which are not effectively pooled or unitized. Any operations conducted on any part of such unitized land shall be considered, for all purposes, except the payment of royalty, as operations conducted upon said land under this lease. There shall be allocated to the land covered by this lease within each such unit (or to each separate tract within the unit if this lease covers separate tracts within the unit) the proportion of the total production of unitized minerals from the unit, after deducting any used in lease or unit operations, which the number of surface acres in such land (or in each such separate tract) covered by this lease within the unit bears to the total number of surface acres in the unit, and the production so allocated shall be considered for all purposes, including payment or delivery of royalty, overriding royalty and any other payments out of production, to be the entire production of unitized minerals from the land to which allocated in the same manner as though produced there from under the terms of this lease. The owner of the reversionary estate of any term royalty or mineral estate agrees that the accrual of royalties pursuant to this paragraph or of shut-in royalties from a well on the unit shall satisfy any limitation of term requiring production of oil or gas. The formation of any unit hereunder which includes land not covered by this lease shall not have the effect of exchanging or transferring any interest under this lease (including, without limitation, any shut-in royalty which may become payable under this lease) between parties owning interests in land covered by this lease and parties owning interests in land not covered by this lease. Neither shall it impair the right of Lessee to release as provided in paragraph 5 hereof, except that Lessee may not so release as to lands within a unit while there are operations thereon for unitized minerals unless all pooled leases are released as to lands within the unit. At any time while this lease is in force Lessee may dissolve any unit established hereunder by filing for record in the public office where this lease is recorded a declaration to that effect, if at that time no operations are being conducted thereon for unitized minerals. Subject to the provisions of this paragraph 4, a unit once established hereunder shall remain in force for so long as any lease subject thereto shall remain in force. If this lease now or hereafter covers separate tracts, no pooling or unitization of royalty interests as between any such separate tracts is intended or shall be implied or result merely from the inclusion of such separate tracts within this lease but Lessee shall nevertheless have the right to pool or unitize as provided in this paragraph 4 with consequent allocation of production as herein provided. As used in this paragraph 4, the words "separate tract" mean any tract with royalty ownership differing, now or hereafter, either as to parties or amounts, from that as to any other part of the leased premises.

(b) Neither unit production of oil or gas, nor unit operations, nor payment of shut-in royalties from a unit gas well, shall serve to hold the lease in force as to any area outside the unit, regardless of whether the production, maintenance of a shut-in gas well, or operations are actually located on the State tract or not.

(c) Lessee agrees to file with the General Land Office a copy of any unit designation, which this lease is included within ninety (90) days of such designation.

5. **RELEASE:** Lessee may relinquish the rights granted hereunder to the State at any time by recording the relinquishment in the county where this area is situated and filing the recorded relinquishment or certified copy of same in the General Land Office within ninety (90) days after its execution accompanied by the prescribed filing fee. Such relinquishment will not have the effect of releasing Lessee from any liability theretofore accrued in favor of the State.

6. **REWORK:** If at any time or times during the primary term operations are conducted on said land and if all operations are discontinued, this lease shall thereafter terminate at the end of the primary term or on the ninetieth day after discontinuance of all operations, whichever is the later date, unless on such later date either (1) Lessee is conducting operations or (2) the shut-in well provisions of paragraph 3 or the provisions of paragraph 9 are applicable. Whenever used in this lease the word "operations" shall mean operations for and any of the following: drilling, testing, completing, reworking, recompleting, deepening, plugging back or repairing of a well in search for or in an endeavor to obtain production of oil or gas, or production of oil or gas in paying quantities.

7. **MINERAL USE:** Lessee shall have the use, free from royalty, of oil and gas produced from said land in all operations hereunder.

8. **NOTICE:** In the event Lessor considers that Lessee has not complied with all its obligations hereunder, both express and implied, Lessor shall notify Lessee in writing, setting out specifically in what respects Lessee has breached this contract. Lessee shall then have sixty (60) days after receipt of said notice within which to meet or commence to meet all

or any part of the breaches alleged by Lessor. The service of said notice shall be precedent to the bringing of any action by Lessor on said lease for any cause, and no such action shall be brought until the lapse of sixty (60) days after service of such notice on Lessee. Neither the service of said notice nor the doing of any acts by Lessee aimed to meet all or any of the alleged breaches shall be deemed an admission or presumption that Lessee has failed to perform all its obligations hereunder. If this lease is canceled for any cause, it shall nevertheless remain in force and effect as to (1) sufficient acreage around each well as to which there are operations to constitute a drilling or maximum allowable unit under applicable governmental regulations, (but in no event less than forty acres), such acreage to be designated by Lessee as nearly as practicable in the form of a square centered at the well, or in such shape as then existing spacing rules require; and (2) any part of said land included in a pooled unit on which there are operations.

9. **FORCE MAJEURE:** If, while this lease is in force, at, or after the expiration of the primary term hereof, it is not being continued in force by reason of the shut-in well provisions of paragraph 3 hereof, and Lessee is not conducting operations on said land by reason of (1) any law, order, rule or regulation, (whether or not subsequently determined to be invalid) or (2) any other cause, whether similar or dissimilar, (except financial) beyond the reasonable control of Lessee, the primary term shall be extended until the first anniversary date hereof occurring ninety (90) or more days following the removal of such delaying cause, and this lease may be extended thereafter by operations as if such delay had not occurred.

10. **LESSER ESTATE CLAUSE:** If this lease covers a less interest in the oil or gas in all or any part of said land than the entire and undivided fee simple estate (whether lessors interest is herein specified or not), or no interest therein, then the royalties, and other monies accruing from any part as to which this lease covers less than such full interest, shall be paid only in the proportion which the interest therein, if any, covered by this lease bears to the whole and undivided fee simple estate therein.

11. **ASSIGNMENTS:** This lease may be transferred at any time. All transfers must reference the lease by file number and must be recorded in the county where the land covered hereby is located, and the recorded transfer or a copy certified to by the County Clerk of the county where the transfer is recorded must be filed in the General Land Office within ninety (90) days of the execution date, as provided by N.R.C. Section 52.026, accompanied by the prescribed filing fee. Every transferee shall succeed to all rights and be subject to all obligations, liabilities, and penalties owed to the State by the original Lessee or any prior transferee of the lease, including any liabilities to the State for unpaid royalties.

12. **WELL INFORMATION:** Lessee agrees to forthwith furnish Lessor, upon written request, with copies of all drilling logs, electrical logs, cores and core records and other information pertaining to all wells drilled by lessee either on the leased premises or acreage pooled therewith, when requested to do so. Said information shall remain confidential as required by statute.

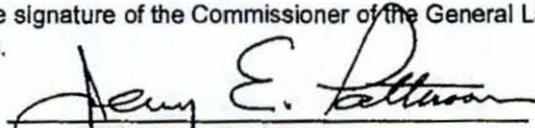
13. **SURFACE:** Notwithstanding anything herein to the contrary, it is agreed that Lessee will not conduct any exploration or drilling on the surface of the leased premises or use the surface in the exercise of any rights herein granted. Any development of said land shall be by means of a directional well located off the leased premises, or by pooling of said land with other land, lease or leases as hereinabove provided.

14. **COMPENSATORY ROYALTY:** Lessee shall pay a compensatory royalty if this lease is not being held by production on the leased premises, by production from a pooled unit, or by payment of shut-in royalties in accordance with the terms of this lease, and if oil or gas is sold or delivered in paying quantities from a well located within 2,500 feet of the leased premises and completed in a producible reservoir underlying the area leased hereunder or in any case in which drainage is occurring. Such compensatory royalty shall be paid at the royalty rate provided in this lease based on the value of production from the well as provided in the lease on which such well is located. The compensatory royalty shall be paid in the same proportion that the acreage of this lease has to the acreage of the proration unit surrounding the draining well plus the acreage of this lease. The compensatory royalty shall be paid monthly to the Commissioner of the General Land Office on or before the last day of the month after the month in which the oil or gas is sold and delivered from the well

causing the drainage or from the well located within 2500 feet of the leased premises and completed in a producible reservoir under this lease. Notwithstanding anything herein to the contrary, compensatory royalty payable hereunder shall be no less than an amount equal to **double the shut-in royalty** and shall maintain this lease in effect for so long as such payments are made as provided herein.

15. FORFEITURE: If Lessee shall fail or refuse to make payment of any sum within thirty (30) days after it becomes due, or if Lessee or an authorized agent should knowingly make any false return or false report concerning production or drilling, or if Lessee shall fail or refuse to drill any offset well or wells in good faith as required by law and the rules and regulations adopted by the Commissioner of the General Land Office, or if Lessee should fail to file reports in the manner required by law or fail to comply with rules and regulations promulgated by the General Land Office, or refuse the proper authority access to the records pertaining to operations, or if Lessee or an authorized agent should knowingly fail or refuse to give correct information to the proper authority, or knowingly fail or refuse to furnish the General Land Office a correct log of any well, or if this lease is pooled or assigned and the unit designation or assignment is not filed in the General Land Office as required by law, the rights acquired under this lease shall be subject to forfeiture by the Commissioner, and he shall forfeit same when sufficiently informed of the facts which authorize a forfeiture, and when forfeited the area shall again be subject to lease. However, nothing herein shall be construed as waiving the automatic termination of this lease by operations of law or by reason of any special limitation arising hereunder. Forfeitures may be set aside and this lease and all rights there under reinstated before the rights of another intervene upon satisfactory evidence to the Commissioner of the General Land Office of future compliance with the provisions of the law and of this lease and the rules and regulations that may be adopted relative hereto.

IN TESTIMONY WHEREOF, witness the signature of the Commissioner of the General Land Office of the State of Texas under the seal of the General Land Office.

  
JERRY E. PATTERSON  
COMMISSIONER, GENERAL LAND OFFICE

Approved:  
ML:   
DC:   
CC: 

ETES AND BOUNDS DESCRIPTION

75.32 Acres in State Highway #158  
Right-of-Way out of  
Block 33, T-4-S, & Block 32, T-4-S,  
T. & P. RR. Co.,  
Glasscock County, Texas

BOOK 166 PAGE 153

Beginning at Highway Station 264-65, a point on the west line of Section 23, Block 33, T-4-S, T. & P. RR. Co., and on the centerline of State Highway #158, from which the calculated northwest corner of said Section 23 bears N 14°26'00" W 1824.00 feet;

Thence N 14°26'00" W, with the west line of said Section 23, 66.65 feet to a point on the west line of said Section 23 and in the north right-of-way of State Highway #158 for the most northwesterly corner of this tract;

Thence S 78°37'00" E, with the north right-of-way of State Highway #158, 5941.13 feet to the point of curvature of a circular curve to the right;

Thence around said curve, whose central angle is 21°35', a distance of 2180.94 feet to the point of tangency of said curve;

Thence S 57°02'00" E, with the northeast right-of-way of State Highway #158, 55.41 feet pass the north line of Section 25, Block 33, T-4-S, T. & P. RR. Co., 3695.05 feet pass the east line of said Section 25, a total distance of 11888.79 feet to a point in the northeast right-of-way of State Highway #158;

Thence S 56°17'00" E, with the northeast right-of-way of State Highway #158, 7314.02 feet to a point on the east line of Section 41, Block 32, T-4-S, T. & P. RR. Co. and in the northeast right-of-way of State Highway #158 for the most northeasterly corner of this tract;

Thence S 14°26'00" E, with the east line of said Section 41, 179.86 feet to a point on the east line of said Section 41 and in the southwest right-of-way of State Highway #158, for the most southeasterly corner of this tract;

Thence N 56°17'00" W, with the southwest right-of-way of State Highway #158, 7447.99 feet to a point in the southwest right-of-way of State Highway #158;

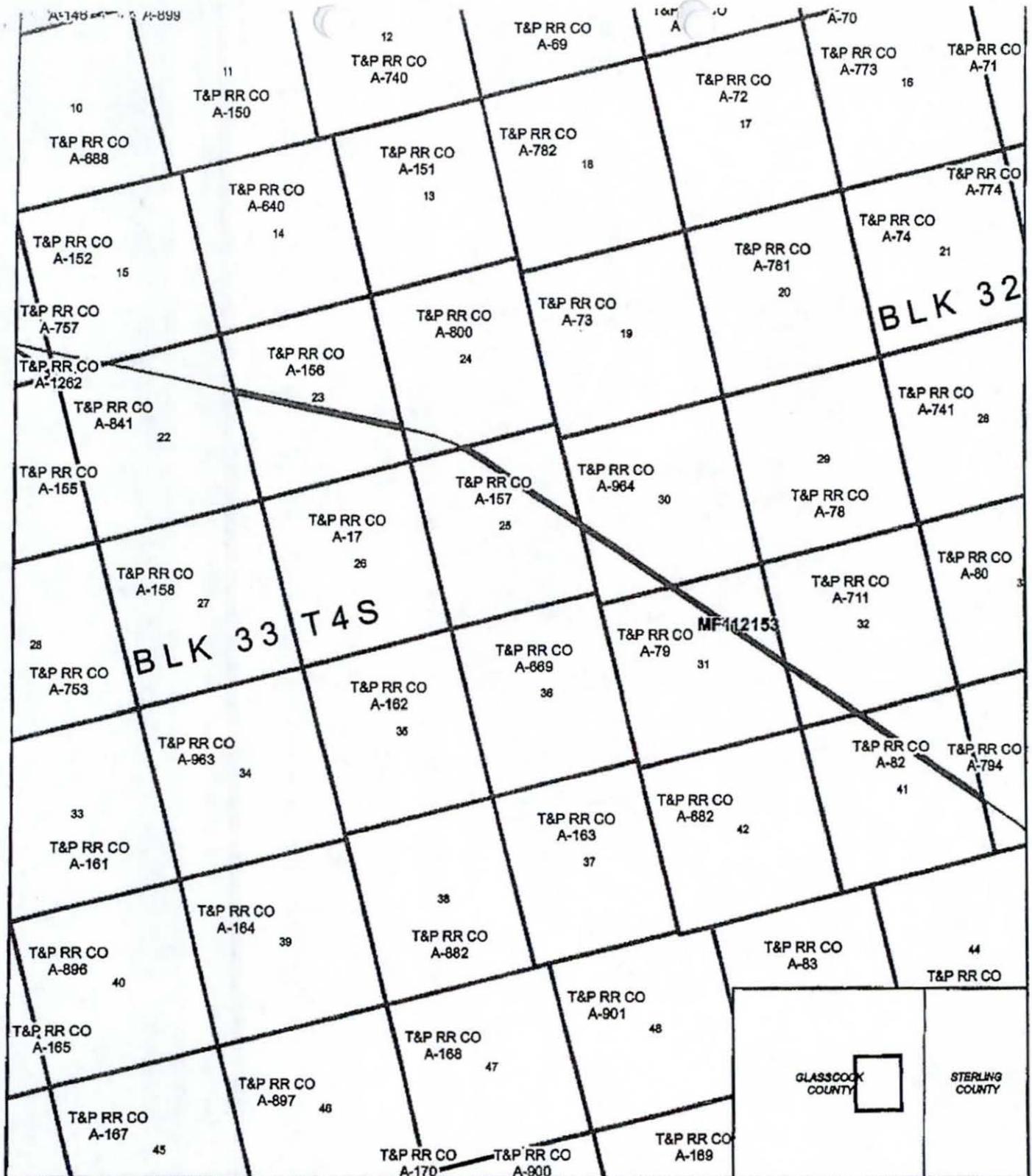
Thence N 57°02'00" W, with the southwest right-of-way of State Highway #158, 8061.06 feet pass the east line of said Section 25, a total distance of 11887.21 feet to the point of curvature of a circular curve to the left;

Thence around said curve, whose central angle is 21°35', a distance of 2135.73 feet to the point of tangency of said curve;

Thence N 78°37'00" W, with the south right-of-way of State Highway #158, 5883.07 feet to a point on the west line of said Section 23 and in the south right-of-way of State Highway #158, for the most southwesterly corner of this tract;

Thence N 14°26'00" W, with the west line of Section 23, 66.65 feet to the point of beginning.

LESS & EXCEPT approximately 6.2 Acres out of Section 24, Block 33, T-4-S, T. & P. RR. Co., Glasscock County.



Map Showing a Buffer of  
 SH 158  
 75.32 Acres  
 Glasscock County, TX

4,000 2,000 0 4,000 Feet

The Texas General Land Office makes no representations or warranties regarding the accuracy or completeness of the information depicted on this map or the data from which it was produced. This map IS NOT suitable for navigational purposes and does not purport to depict or establish boundaries between private and public land.



Map Generated by:  
 Mark Conway  
 IS/BAS/GIS  
 February 2011

ON THE 15 DAY OF May  
A.D., 2011  
INS. NO. 7122

Rebecca Bada  
COUNTY CLERK, GLASSCOCK COUNTY, TEXAS

BY Hittens Joan  
DEPUTY

I hereby certify that this document was FILED on the  
date and at the time stamped by me and was duly  
RECORDED in the Volume 166 Page of the named  
RECORDS of Glasscock County, Texas, as stamped  
hereon by me.



Rebecca Bada  
County Clerk, Glasscock County, Texas

OFFICIAL PUBLIC RECORDS

VOL. 166 PAGE 148

RECORDED May 23, 2011

**From:** Romae Bell <rbell@concho.com>  
**To:** Karin Parker <kparker@concho.com>  
**Date:** 7/7/2014 9:45 AM  
**Subject:** FW: Designation of Pooled Unit - Glass 2 East Prospect, Glasscock County, Texas  
**Attachments:** Currie E State3007.pdf

Here is the information requested. I sent it to everyone on March 26, 2014. Hope this helps you. Let me know if you need anything else.

From: Romae Bell  
Sent: Wednesday, March 26, 2014 9:54 AM  
To: mark.adams@glo.texas.gov; Marcus Arguello; Karin Parker; 'medonaghey@paalp.com'  
Cc: Joe Dutton  
Subject: Designation of Pooled Unit - Glass 2 East Prospect, Glasscock County, Texas

Attached for your further handling is a copy of the "Information for Highway Right-of-Way Unit Declaration" form and a recorded Designation of Pooled Unit covering the captioned well in Glasscock County, Texas.

Should you have any questions or need additional information, please feel free to contact me.

Romae

Romae Bell  
Land Coordinator  
COG OPERATING LLC  
One Concho Center  
600 W. Illinois Avenue  
Midland, TX 79701

Phone: 432.683.7443

Direct: 432.818.2203

Fax: 432.221.0863

cid:image001.jpg@01CC6E1A.B1952B50

CONFIDENTIALITY NOTICE: The information in this email may be confidential and/or privileged. If you are not the intended recipient or an authorized representative of the intended recipient, you are hereby notified that any review, dissemination or copying of this email and its attachments, if any, or the information contained herein, is prohibited. If you have received this email in error, please immediately notify the sender by return email and delete this email from your system. Thank you

**From:** Karin Parker <kparker@concho.com>  
**To:** "mark.adams@glo.texas.gov" <mark.adams@glo.texas.gov>, "susan.wauer@glo....  
**CC:** Marcus Arguello <MArguello@concho.com>, Romae Bell <rbell@concho.com>, R...  
**Date:** 7/7/2014 4:41 PM  
**Subject:** CURRIE E STATE #3007 MF-112153  
**Attachments:** CURRIE E STATE GLO DO 7-7-14.pdf; STATE OF TEXAS LEASE MF112153.pdf; FW: Designation of Pooled Unit - Glass 2 East Prospect, Glasscock County, Texas; Currie E State 3007 HWY ROW FORM.pdf

General Land Office

Mark Adams

PO Box 128973

Austin, TX 78711-2873

RE: Currie E State #3007 - MF112153, Glasscock County, TX

Mark:

Please see scanned Division Orders and copy of the State lease MF-112153 on the Currie E State #3007, Designation of Pooled Unit for the Currie E State #3007 and Highway Right -of-Way Unit Declaration form.

Please let me know if there is anything else I need to send or if I need to direct this email to another individual.

Respectfully,

Karin Parker

Sr. Division Order Analyst

COG OPERATING LLC

One Concho Center

600 W. Illinois Avenue

Midland, Texas 79701

Ph 432.686.3086

Fx 432.687-8024

Email: [kparker@concho.com](mailto:kparker@concho.com)<<mailto:tcompton@conchoresources.com>>

Description: concho\_logo.jpg

Handwritten notes on the right side of the page, including a date "9/3/15" and some illegible text.

File No. MF112153

Glasscock County

Unit 7654 Agreement

Date Filed: 9/3/15

George P. Bush, Commissioner  
By MB Barnstone



VICKIE L. GOTCHER  
Regulatory Analyst

March 14, 2014

Matthew T. Scott  
Texas General Land Office  
P. O. Box 12873  
Austin, TX 78711-2873

RE: Permission to Surface Commingle Production from MF114851 (Currie 'A' State Lease) with the Currie 'A' North Lease a Non-GLO lease

Dear Mr. Scott:

COG Operating LLC is requesting permission to Surface Commingle MF114851 (Currie 'A' State Lease) with the Currie 'A' North lease. Please find attached the data required for the surface commingle permit application.

The wells involved in this commingle are as follows:

Currie 'A' State #4003 – Permit# 763000

Currie 'A' State #4505 – Permit # 764119

Currie 'A' State #4510 – Permit # 766905

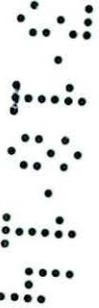
Currie 'A' North #4005, #4008, #4009 – RRC# 42865

Please contact me if you have any questions. I can be reached at (432) 818-2249 or by e-mail at [vgotcher@concho.com](mailto:vgotcher@concho.com).

Sincerely,

Vickie L. Gotcher  
COG Operating LLC

vg/enclosure



New  
 Amended  
 Existing Permit No. 6835  
 Effective Month/Year of Requested Exception: 02 / 2014

RAILROAD COMMISSION OF TEXAS  
 OIL AND GAS DIVISION  
 APPLICATION FOR EXCEPTION TO  
 STATEWIDE RULES (SWR) 26 AND/OR 27

DBC0308  
 FORM P-17  
 Eff 01/2008  
 \$150 FILING FEE  
 District \_\_\_\_\_  
 County \_\_\_\_\_

3088305

SECTION 1 OPERATOR INFORMATION (See instructions under "Who Files")  
 Operator Name (as shown on P-5): COG OPERATING LLC Operator P-5 No. 166150  
 Operator Address: 600 W ILLINOIS AVE City, State, Zip: MIDLAND TX 79701

SECTION 2 GATHERER (of oil or condensate) INFORMATION (not required if 3b is checked)  
 Gatherer Name (as shown on P-5): PLAINS MARKETING, LP Gatherer P-5 No. 667853  
 Gatherer Address: PO BOX 4648 City, State, Zip: HOUSTON TX 77210  
 Gatherer E-mail Address: BAJENKINS@PAALP.COM  
 (Optional - if provided, e-mail address will become part of this public record.)

SECTION 3. APPLICATION APPLIES TO (CHECK ALL THAT APPLY)  OIL  CASINGHEAD GAS  GAS WELL GAS  CONDENSATE

- a.  Gas well full well stream into common separation and storage facility with liquids reported on Form PR.
- b.  Gas well full well stream into a gasoline plant/common separation and storage facility with liquids reported on Form R-3 Serial # \_\_\_\_\_ (if full well stream is checked, the results of periodic tests to determine the number of stock tank barrels of liquid hydrocarbons recovered per 1,000 standard cubic feet of gas must be reported on Form G-10 in accordance with SWR 55. Attach an explanation of any exceptions to SWR 55.)
- c.  Condensate and low-pressure Gas Well Gas are commingled into low-pressure separation and storage facility.
- d.  This request is for off lease:  storage  separation  metering
- e.  This exception is for common storage.
- f.  This exception is for common separation.
- g.  This exception is for casinghead gas metering by:  deduct metering  allocation by well test  other \_\_\_\_\_
- h.  This exception is for gas well gas metering by  deduct metering  allocation by well test  other \_\_\_\_\_
- i.  This request is an exception to measure liquid with a. (check one below)  
 a Turbine Meter or  a Coriolis Meter (an additional \$150.00 and a letter of explanation is required for each exception.)

RECEIVED  
 RRC OF TEXAS  
 MAR 12 2014  
 ORG  
 AUSTIN TX

SECTION 4. NOTICE REQUIREMENTS AND ALLOCATION METHOD (CHECK ALL THAT APPLY) The following questions determine if 21-day notice is required and applicable at wells proposed for commingling.

- a.  The production is measured separately from all leases or individual wells before commingling. (Notice not required. See Section 5.)
- b.  The royalty interests and working interests are the same with respect to identity and percentages. (Notice not required.)
- c.  The royalty interests and working interests are not the same with respect to identity and percentage. (Notice required.)  
 If b. or c. checked, production will be allocated by:  W-10 (oil)  W-2 (retest) (oil)  PD Meter (oil & condensate)  G-10 (gas)
- d.  The wells produce from multiple reservoirs. (Notice required unless (a, or (f) apply, see instructions for additional requirements.)
- e.  The wells produce from multiple reservoirs and have SWR10 exceptions. (Notice not required.)
- f.  The wells produce from multiple reservoirs and are measured separately from each reservoir. (Notice not required.)
- g.  Any one of the wells proposed for commingling produces from a Commission-designated reservoir for which special field rules have been adopted. (Notice required.)

SECTION 5.  Wells proposed for commingling have an operator's name other than the applicant listed in SECTION 1. (See instructions.)

SECTION 6.  For oil production, the production from all oil wells on each oil lease is to be commingled. (See instructions.)

SECTION 7 IDENTIFY LEASES AS SHOWN ON COMMISSION RECORDS (attach additional pages as needed)

DISTRICT	RRC IDENTIFIER	ACTION			LEASE AND FIELD NAME	WELL NO.
08	42685	<input checked="" type="checkbox"/> Existing	<input type="checkbox"/> Add	<input type="checkbox"/> Delete	CURRIE 'A' NORTH Garden City, S. (Wolfcamp)	ALL
08	763090	<input checked="" type="checkbox"/> Existing	<input type="checkbox"/> Add	<input type="checkbox"/> Delete	CURRIE 'A' STATE Garden City, S. (Wolfcamp)	4003
08	764119	<input checked="" type="checkbox"/> Existing	<input type="checkbox"/> Add	<input type="checkbox"/> Delete	CURRIE 'A' STATE Garden City S. (Wolfcamp)	4505
08	765905	<input type="checkbox"/> Existing	<input checked="" type="checkbox"/> Add	<input type="checkbox"/> Delete	CURRIE 'A' STATE Garden City, S. (Wolfcamp)	4510

ATTACH ADDITIONAL PAGES AS NEEDED.  No additional pages  Additional pages \_\_\_\_\_ (if of additional pages)

CERTIFICATE: I declare under penalties in Sec. 111, 143, Texas Natural Resources Code, that I am authorized to file this application. That this application was prepared by me or under my supervision and direction, and that the data and facts stated therein are true, correct, and complete, to the best of my knowledge. I certify that all requests for copies required approvals from other affected State Agencies have been submitted and that I understand that any such action granted by Commission approval of this application is contingent upon the approvals from other affected State Agencies being obtained.

Signature: [Signature] Title: REGULATORY ANALYST Date: 03/11/2014  
 Operator E-mail Address: vwdtclier@condro.com Operator Phone No: (432)318-2340  
 (Optional - if provided, e-mail address will become part of this public record.)

Commingling Permit No. 6835 Approval date: 3/13/14 Approved by: [Signature]  
 RRC USE ONLY

## Currie A North Sec. 40 TB

Currie 'A' State #4003  
Currie 'A' State #4505  
Currie 'A' State #4510  
Currie 'A' North #4005  
Currie 'A' North #4008  
Currie 'A' North #4009

### Process Flow Narrative

Oil, gas and water from individual wells will be produced to the Header. From there, individual well streams can be diverted to either the 2-phase tester or to the production heater treater.

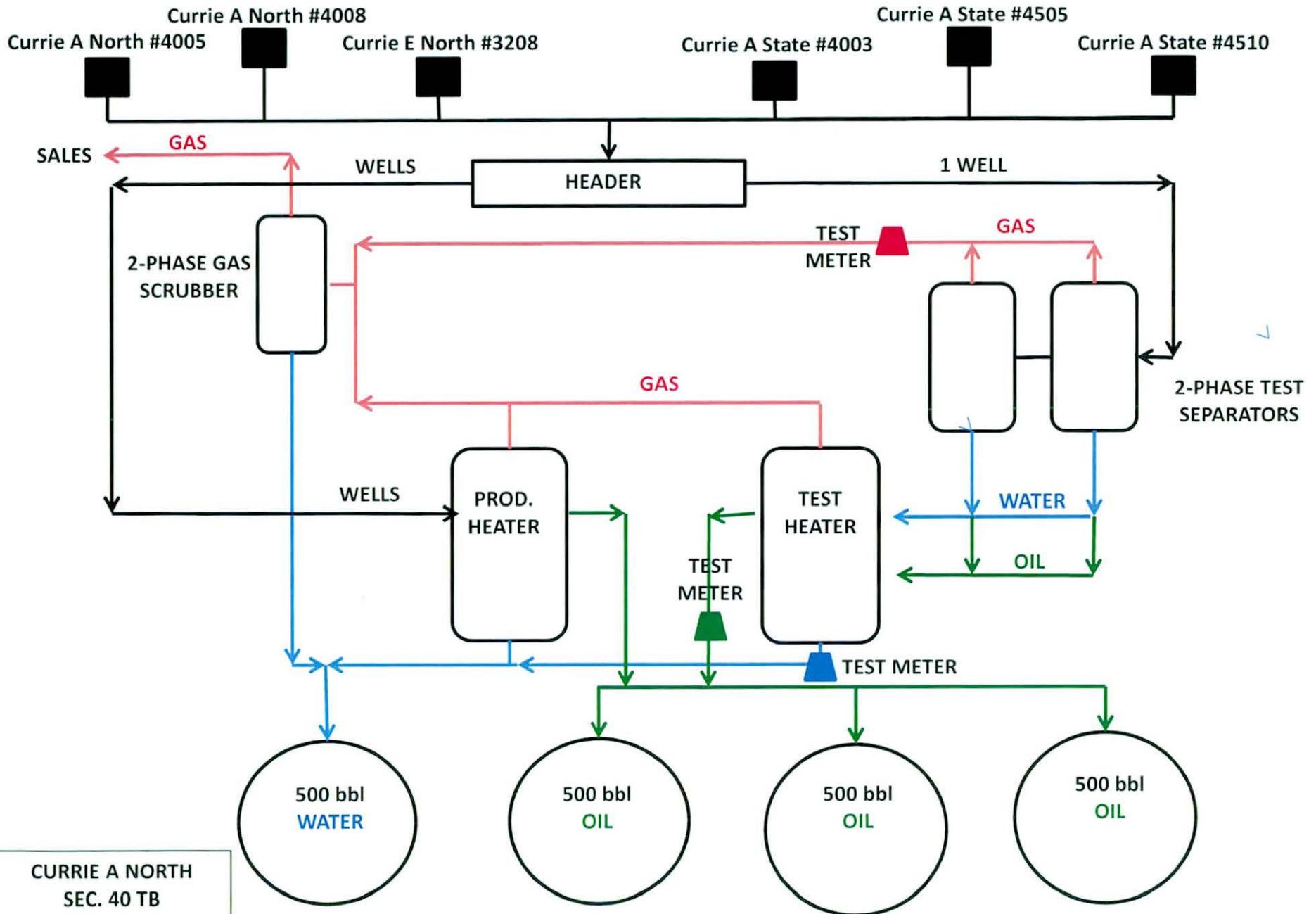
For test purposes, after separation in the 2-phase test separator, gas will be metered through the gas meter, flow through the 2-phase gas scrubber and sent to the gas sales meter for measurement and sales. Oil and water will then go to the test heater for separation. After separation, any remaining gas will flow through to the 2-phase gas scrubber and then the gas sales meter, the oil will be metered and sent to the oil tanks and the water will be metered and sent to the water tanks.

For wells not in test, they will flow to the Production Heater where the well stream is separated. Gas will be sent to the 2-phase Gas Scrubber and then on to the gas sales meter for measurement and sales. The oil is then sent to the oil tanks and the water is sent to the water tanks.

### Allocation Method

Oil, gas and water production will be allocated daily to individual wells based on well tests. Individual well test values for oil, gas and water, along with daily oil and water tank straps and gas sales meter volumes will be entered into our in-house production management software. The software will then allocate the total battery oil, gas and water volumes back to the well level based on the last well test from each well. Monthly oil and gas sales will be allocated based on the sum of daily allocated well production.



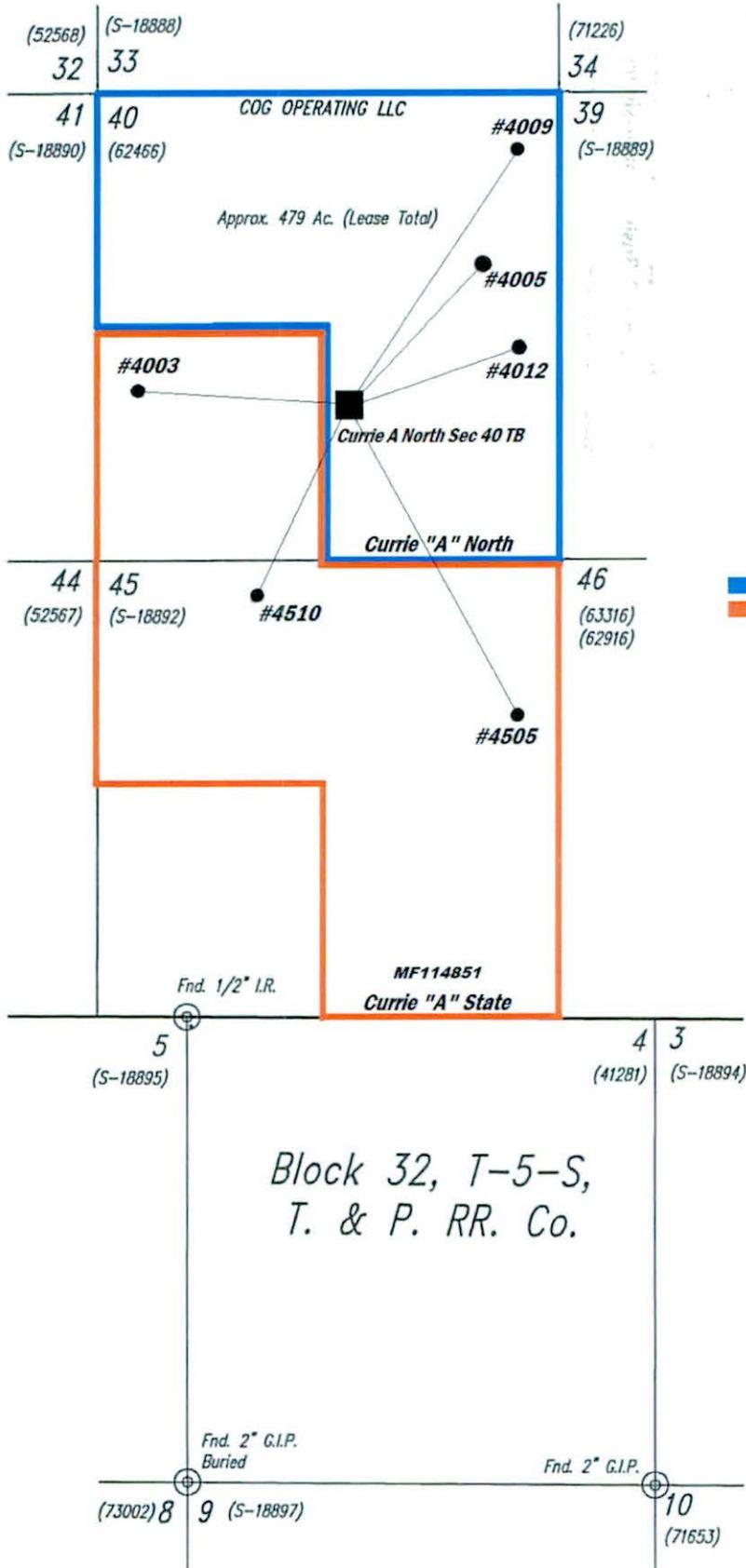


CURRIE A NORTH  
 SEC. 40 TB  
 Currie A North Lease  
 Currie A State Lease  
 RRC Comm. #6835

41070



Block 32, T-4-S,  
T. & P. RR. Co.



■ Currie "A" North Lease  
■ Currie "A" State Lease

Block 32, T-5-S,  
T. & P. RR. Co.



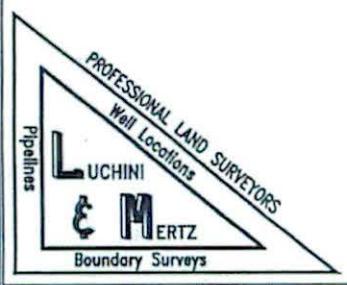
*Steven L. Prewit*

February 2013  
Currie "A" North Lease

Railroad Commission Permit Plat

**COG OPERATING LLC**  
**CURRIE A NORTH SEC 40 TANK BATTERY**  
 Currie A North Lease  
 Currie A State Lease  
 RRC Commingle #6835

Scale: 1" = 2000'



41313

File No. MF113153

GLASCOCK County

SEC 40 WRRIE 'A' COMMINGE REQUEST TO

Date Filed: 8/24/2016

George P. Bush, Commissioner

By: M T SCOTT



VICKIE L. GOTCHER  
Regulatory Analyst

May 6, 2014

Matthew T. Scott  
Texas General Land Office  
P. O. Box 12873  
Austin, TX 78711-2873

RE: Permission to Surface Commingle Production from HROW MF112153  
(Currie "E" State Lease) with the Currie "E" Lease a Non-GLO lease - Revision

Dear Mr. Scott:

I am resubmitting the data required for COG Operating LLC to obtain permission to Surface Commingle HROW MF112153 (Currie "E" State Lease) with the Currie "E" lease.

All revised data is attached for the surface commingle permit application.

The wells involved in this commingle are as follows:

Currie 'A' State #4003 – Permit# 763000

Currie 'A' State #4505 – Permit # 764119

Currie 'A' State #4510 – Permit # 766905

Currie 'A' North #4005, #4008, #4009 – RRC# 42865

If you have any questions, please contact me at (432) 818-2249; e-mail at [vgotcher@concho.com](mailto:vgotcher@concho.com) or Terry Burkes at (432) 818-2204; e-mail [tburkes@concho.com](mailto:tburkes@concho.com).

Sincerely,

Vickie L. Gotcher  
COG Operating LLC

vg/enclosures



<input type="checkbox"/> New <input checked="" type="checkbox"/> Amended Existing Permit No. <u>6835</u>  Effective Month/Year of Requested Exception: <u>04</u> / <u>2014</u>	<b>RAILROAD COMMISSION OF TEXAS</b> <b>OIL AND GAS DIVISION</b>  <b>APPLICATION FOR EXCEPTION TO STATEWIDE RULES (SWR) 26 AND/OR 27</b>	DBC0308  <b>FORM P-17</b> Eff 01/2008 \$150 FILING FEE	District <u>08</u> County <u>GLASSCOCK</u>
--	--	--	---

COPY

**SECTION 1. OPERATOR INFORMATION (See instructions under "Who Files")**

Operator Name (as shown on P-5): COG OPERATING LLC Operator P-5 No. 166150

Operator Address: 600 W ILLINOIS AVE City, State, Zip: MIDLAND TX 79701

**SECTION 2. GATHERER (of oil or condensate) INFORMATION (not required if 3b is checked)**

Gatherer Name (as shown on P-5): PLAINS MARKETING, LP Gatherer P-5 No. 667883

Gatherer Address: P O BOX 4648 City, State, Zip: HOUSTON TX 77210

Gatherer E-mail Address: bajenkins@paalp.com  
 (Optional - If provided, e-mail address will become part of this public record.)

**SECTION 3. APPLICATION APPLIES TO (CHECK ALL THAT APPLY):**  OIL  CASINGHEAD GAS  GAS WELL GAS  CONDENSATE

a.  Gas well full well stream into common separation and storage facility with liquids reported on Form PR.  
 b.  Gas well full well stream into a gasoline plant/common separation and storage facility with liquids reported on Form R-3 Serial # \_\_\_\_\_ (If full well stream is checked, the results of periodic tests to determine the number of stock tank barrels of liquid hydrocarbons recovered per 1,000 standard cubic feet of gas must be reported on Form G-10 in accordance with SWR 55. Attach an explanation of any exceptions to SWR 55.)  
 c.  Condensate and low-pressure Gas Well Gas are commingled into low-pressure separation and storage facilities.  
 d.  This request is for off lease:  storage  separation  metering.  
 e.  This exception is for common storage.  
 f.  This exception is for common separation.  
 g.  This exception is for casinghead gas metering by:  deduct metering  allocation by well test  other \_\_\_\_\_.  
 h.  This exception is for gas well gas metering by:  deduct metering  allocation by well test  other \_\_\_\_\_.  
 i.  This request is an exception to measure liquid with a: (check one below)  
 a Turbine Meter or  a Coriolis Meter (an additional \$150.00 and a letter of explanation is required for each exception.)

**SECTION 4. NOTICE REQUIREMENTS AND ALLOCATION METHOD. (CHECK ALL THAT APPLY)** The following questions determine if 21-day notice is required and applies to all wells proposed for commingling:

a.  The production is measured separately from all leases or individual wells before commingling. (Notice not required; Skip to Section 5)  
 b.  The royalty interests and working interests are the same with respect to identity and percentage. (Notice not required)  
 c.  The royalty interests and working interests are not the same with respect to identity and percentage. (Notice required)  
 If b. or c. checked, production will be allocated by:  W-10 (oil)  W-2 retest (oil)  PD Meter (oil & condensate)  G-10 (gas)  
 d.  The wells produce from multiple reservoirs. (Notice required unless 4e. or 4f. apply; see instructions for additional requirements)  
 e.  The wells produce from multiple reservoirs and have SWR10 exceptions. (Notice not required)  
 f.  The wells produce from multiple reservoirs and are measured separately from each reservoir. (Notice not required)  
 g.  Any one of the wells proposed for commingling produces from a Commission-designated reservoir for which special field rules have been adopted. (Notice required)

**SECTION 5.**  Wells proposed for commingling have an operator's name other than the applicant listed in SECTION 1. (See instructions)

**SECTION 6.**  For oil production, the production from all oil wells on each oil lease is to be commingled. (See instructions)

**SECTION 7. IDENTIFY LEASES AS SHOWN ON COMMISSION RECORDS (attach additional pages as needed)**

DISTRICT	RRC IDENTIFIER	ACTION	LEASE AND FIELD NAME	WELL NO.
08	42865	<input checked="" type="checkbox"/> Existing <input type="checkbox"/> Add <input type="checkbox"/> Delete	Currie "A" North Garden City, S. (Wolfcamp)	ALL
08	763000	<input checked="" type="checkbox"/> Existing <input type="checkbox"/> Add <input type="checkbox"/> Delete	Currie "A" State Garden City, S. (Wolfcamp)	4003
08	764119	<input checked="" type="checkbox"/> Existing <input type="checkbox"/> Add <input type="checkbox"/> Delete	Currie "A" State Garden City, S. (Wolfcamp)	4505
08	766905	<input checked="" type="checkbox"/> Existing <input type="checkbox"/> Add <input type="checkbox"/> Delete	Currie "A" State Garden City, S. (Wolfcamp)	4510

**ATTACH ADDITIONAL PAGES AS NEEDED.**  No additional pages  Additional pages \_\_\_\_\_ (# of additional pages)

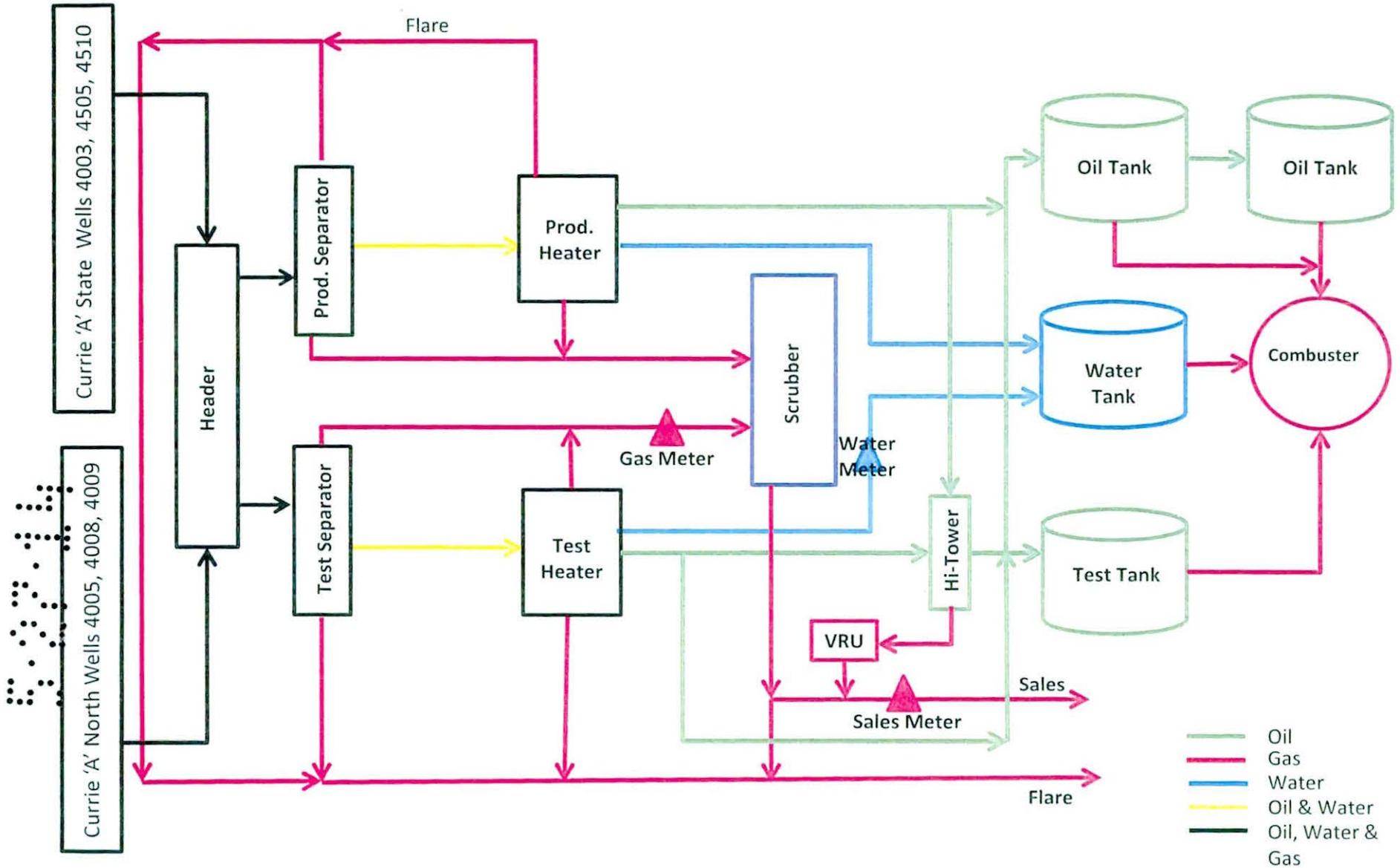
**CERTIFICATE:** I declare under penalties in Sec. 91.143, Texas Natural Resources Code, that I am authorized to file this application, that this application was prepared by me or under my supervision and direction, and that the data and facts stated therein are true, correct, and complete to be the best of my knowledge. I certify that all requests for related required approvals from other affected State Agencies have been submitted and that I understand that any authorization granted by Commission approval of this application is contingent upon the approvals from other affected State Agencies being obtained.

Signature: Vickie L. Gotcher Title: REGULATORY ANALYST Date: 04/02/2014  
 Operator E-mail Address: vgotcher@concho.com Operator Phone No. (432)818-2249  
 (Optional - If provided, e-mail address will become part of this public record.)



Commingling Permit No. \_\_\_\_\_ Approval date: \_\_\_\_\_ Approved by: \_\_\_\_\_

# CURRIE A NORTH SEC 40 TANK BATTERY



## Currie E North Sec. 32 TB

Currie 'E' State #3207  
Currie 'E' State #4101  
Currie 'E' North #3208

### Process Flow Narrative

Oil, gas and water from individual wells will be produced to the Header. From there, individual well streams can be diverted to either the Test Separator or to the Production Separator.

For test purposes, after separation in the Test Separator, gas will be metered through the gas meter, flow through the 2-phase Gas Scrubber and sent to the gas sales meter for measurement and sales. Oil and water will then go to the Test Heater for separation. After separation, any remaining gas will flow through the gas meter and then to the 2-phase Gas Scrubber. The oil will flow through to the Hi-Tower and then to the Test Tank to be gauged and measured. Any remaining gas will flow from the Hi-Tower to the VRU and then on to sales. Water will be metered and sent to the water tanks. Any production vapors that accumulate in the oil and water tanks will go to the Combuster.

For wells not in test, after separation, they will flow to the Production Separator where the well stream is separated. Gas will be sent to the 2-phase Gas Scrubber and then on to the gas sales meter for measurement and sales. The oil is then sent to the oil tanks and the water is sent to the water tanks.

### Allocation Method

Oil, gas and water production will be allocated daily to individual wells based on well tests. Individual well test values for oil, gas and water, along with daily oil and water tank straps and gas sales meter volumes will be entered into our in-house production management software. The software will then allocate the total battery oil, gas and water volumes back to the well level based on the last well test from each well. Monthly oil and gas sales will be allocated based on the sum of daily allocated well production.

47.5.9





File No. ME17153

GLASSCOCK County

SEC 40 CURRIE 'A'

RESUBMIT REQUEST TO COMMINGLE

Date Filed: 8/24/2016

George P. Bush, Commissioner

HUNTSVILLE



VICKIE L. GOTCHER  
Regulatory Analyst

May 6, 2014

Matthew T. Scott  
Texas General Land Office  
P. O. Box 12873  
Austin, TX 78711-2873

RE: Permission to Surface Commingle Production from HROW MF112153  
(Currie 'A' State Lease) with the Currie 'A' Lease a Non-GLO lease

Dear Mr. Scott:

Please find enclosed the data required for COG Operating LLC to obtain permission to Surface Commingle HROW MF112153 (Currie 'A' State Lease) with the Currie 'A' lease.

The wells involved in this commingle are as follows:

Currie 'A' #402, #408, #410, #412, #4503 – RRC# 41205

Currie 'A' State #4508 – Permit# 776088

If you have any questions, please contact me at (432) 818-2249; e-mail at [vgotcher@concho.com](mailto:vgotcher@concho.com) or Terry Burkes at (432) 818-2204; e-mail [tburkes@concho.com](mailto:tburkes@concho.com).

Sincerely,

A handwritten signature in blue ink that reads "Vickie L. Gotcher".

Vickie L. Gotcher  
COG Operating LLC

vg/enclosures



<input checked="" type="checkbox"/> New <input type="checkbox"/> Amended Existing Permit No. _____  Effective Month/Year of Requested Exception: <u>03</u> / <u>2014</u>	<b>RAILROAD COMMISSION OF TEXAS</b> <b>OIL AND GAS DIVISION</b>  <b>APPLICATION FOR EXCEPTION TO STATEWIDE RULES (SWR) 26 AND/OR 27</b>	DBC0308	<b>FORM P-17</b> Eff 01/2008 \$150 FILING FEE  District <u>08</u>  County <u>GLASSCOCK</u>
--	--	---------	--

**SECTION 1. OPERATOR INFORMATION (See instructions under "Who Files")**

COPY

Operator Name (as shown on P-5): COG OPERATING LLC Operator P-5 No. 166150

Operator Address: 600 W ILLINOIS AVE City, State, Zip: MIDLAND TX 79701

**SECTION 2. GATHERER (of oil or condensate) INFORMATION (not required if 3b is checked)**

Gatherer Name (as shown on P-5): PLAINS MARKETING, L.P. Gatherer P-5 No. 667883

Gatherer Address: PO BOX 4648 City, State, Zip: HOUSTON TX 77210

Gatherer E-mail Address: BAJENKINS@PAALP.COM  
 (Optional - If provided, e-mail address will become part of this public record.)

**SECTION 3. APPLICATION APPLIES TO (CHECK ALL THAT APPLY):**  OIL  CASINGHEAD GAS  GAS WELL GAS  CONDENSATE

a.  Gas well full well stream into common separation and storage facility with liquids reported on Form PR.

b.  Gas well full well stream into a gasoline plant/common separation and storage facility with liquids reported on Form R-3 Serial # \_\_\_\_\_ (If full well stream is checked, the results of periodic tests to determine the number of stock tank barrels of liquid hydrocarbons recovered per 1,000 standard cubic feet of gas must be reported on Form G-10 in accordance with SWR 55. Attach an explanation of any exceptions to SWR 55.)

c.  Condensate and low-pressure Gas Well Gas are commingled into low-pressure separation and storage facilities.

d.  This request is for off lease:  storage  separation  metering.

e.  This exception is for common storage.

f.  This exception is for common separation.

g.  This exception is for casinghead gas metering by:  deduct metering  allocation by well test  other \_\_\_\_\_.

h.  This exception is for gas well gas metering by:  deduct metering  allocation by well test  other \_\_\_\_\_.

i.  This request is an exception to measure liquid with a: (check one below)  
 a Turbine Meter or  a Coriolis Meter (an additional \$150.00 and a letter of explanation is required for each exception.)

**SECTION 4. NOTICE REQUIREMENTS AND ALLOCATION METHOD. (CHECK ALL THAT APPLY)** The following questions determine if 21-day notice is required and applies to all wells proposed for commingling:

a.  The production is measured separately from all leases or individual wells before commingling. (Notice not required; Skip to Section 5)

b.  The royalty interests and working interests are the same with respect to identity and percentage. (Notice not required)

c.  The royalty interests and working interests are not the same with respect to identity and percentage. (Notice required)  
 If b. or c. checked, production will be allocated by:  W-10 (oil)  W-2 retest (oil)  PD Meter (oil & condensate)  G-10 (gas)

d.  The wells produce from multiple reservoirs. (Notice required unless 4e. or 4f. apply; see instructions for additional requirements)

e.  The wells produce from multiple reservoirs and have SWR10 exceptions. (Notice not required)

f.  The wells produce from multiple reservoirs and are measured separately from each reservoir. (Notice not required)

g.  Any one of the wells proposed for commingling produces from a Commission-designated reservoir for which special field rules have been adopted. (Notice required)

**SECTION 5.**  Wells proposed for commingling have an operator's name other than the applicant listed in SECTION 1. (See instructions)

**SECTION 6.**  For oil production, the production from all oil wells on each oil lease is to be commingled. (See instructions)

**SECTION 7. IDENTIFY LEASES AS SHOWN ON COMMISSION RECORDS (attach additional pages as needed)**

DISTRICT	RRC IDENTIFIER	ACTION			LEASE AND FIELD NAME	WELL NO.
08	41205	<input type="checkbox"/> Existing	<input checked="" type="checkbox"/> Add	<input type="checkbox"/> Delete	Currie "A" Garden City, S. (Wolfcamp)	ALL
08	776088	<input type="checkbox"/> Existing	<input checked="" type="checkbox"/> Add	<input type="checkbox"/> Delete	Currie "A" State Garden City, S. (Wolfcamp)	4508
		<input type="checkbox"/> Existing	<input type="checkbox"/> Add	<input type="checkbox"/> Delete		
		<input type="checkbox"/> Existing	<input type="checkbox"/> Add	<input type="checkbox"/> Delete		

**ATTACH ADDITIONAL PAGES AS NEEDED.**  No additional pages  Additional pages \_\_\_\_\_ (# of additional pages)

**CERTIFICATE:** I declare under penalties in Sec. 91.143, Texas Natural Resources Code, that I am authorized to file this application, that this application was prepared by me or under my supervision and direction, and that the data and facts stated therein are true, correct, and complete to be the best of my knowledge. I certify that all requests for related required approvals from other affected State Agencies have been submitted and that I understand that any authorization granted by Commission approval of this application is contingent upon the approvals from other affected State Agencies being obtained.

Signature: Vickie L. Gotcher Title: REGULATORY ANALYST Date: 04/02/2014

Operator E-mail Address: vgotcher@concho.com Operator Phone No. (432)818-2249  
 (Optional - If provided, e-mail address will become part of this public record.)

**RRC USE ONLY**

Commingling Permit No. \_\_\_\_\_ Approval date: \_\_\_\_\_ Approved by: \_\_\_\_\_



## **Currie A Sec. 4 TB**

Currie 'A' #402  
Currie 'A' #408  
Currie 'A' #410  
Currie 'A' #412  
Currie 'A' #4503  
Currie 'A' State #4508

## **Process Flow Narrative**

Oil, gas and water from individual wells will be produced to the Header. From there, individual well streams can be diverted to either the 2-phase Test Separator or to the Production Separator..

For test purposes, after separation in the 2-phase Test Separator, gas will flow through the gas meter to be measured and then to the 2-phase Gas Scrubber. After the 2-phase Gas Scrubber, the gas will flow to the gas sales meter for sales and measurement or to the flare line. Oil and water will go to the Test Heater for separation. After separation, any remaining gas will flow through the gas meter to the 2-phase Gas Scrubber and then to the sales meter for measurement and sales or to the flare line. The oil is sent to the oil tanks where it will be gauged and measured. The water will be metered and sent to the water tank. Any production vapors that accumulate in the oil and water tanks will go to the Combuster

For wells not in test, they will flow to the Production Separator. Gas will be sent to the 2-phase Gas Scrubber and then on to the sales or flare line. Oil is then sent to the oil tanks and the water is sent to the water tanks.

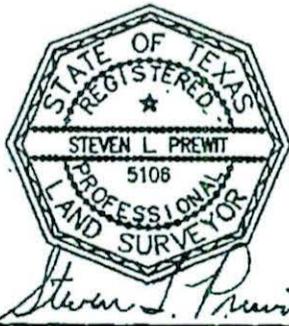
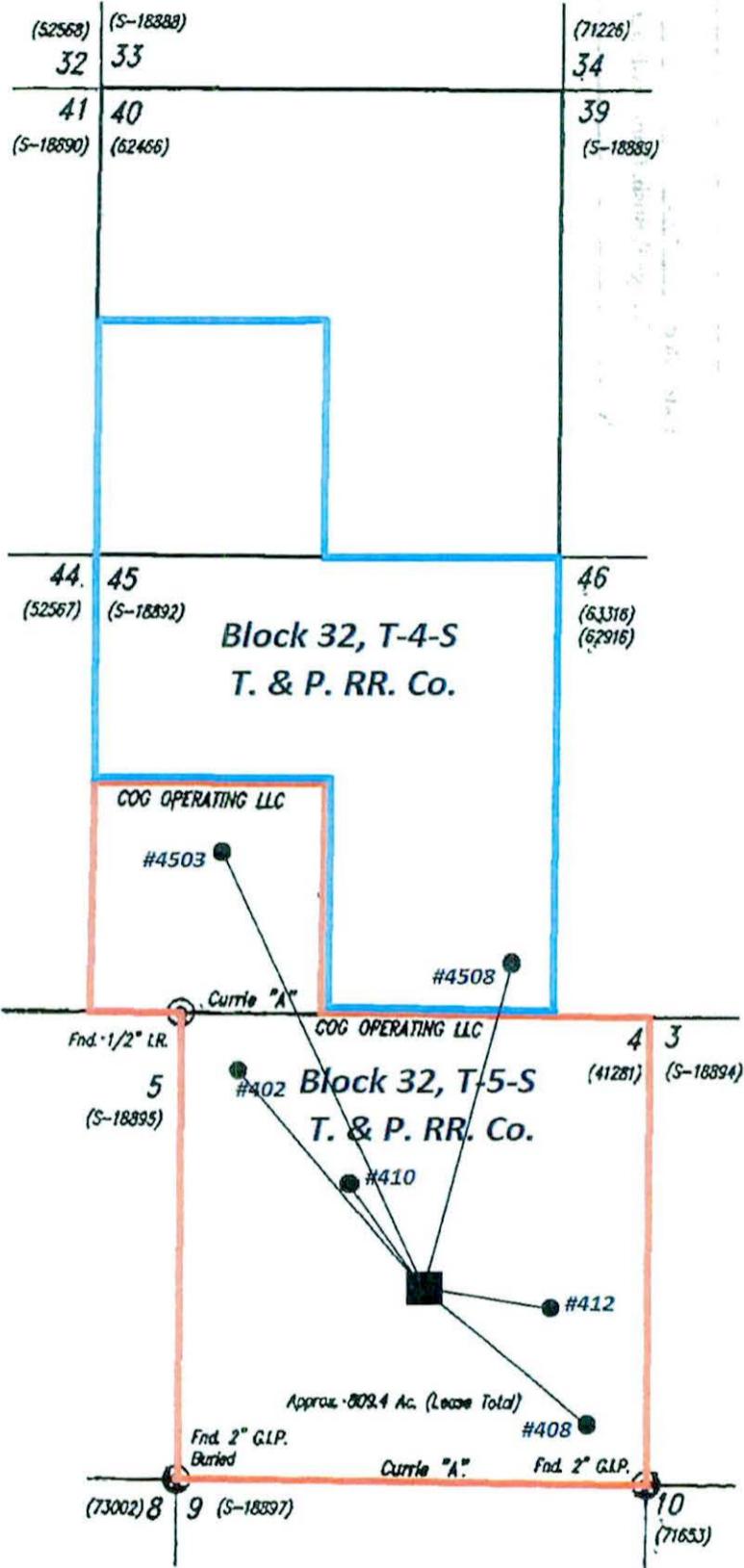
## **Allocation Method**

Oil, gas and water production will be allocated daily to individual wells based on well tests. Individual well test values for oil, gas and water, along with daily oil and water tank straps and gas sales meter volumes will be entered into our in-house production management software. The software will then allocate the total battery oil, gas and water volumes back to the well level based on the last well test from each well. Monthly oil and gas sales will be allocated based on the sum of daily allocated well production.

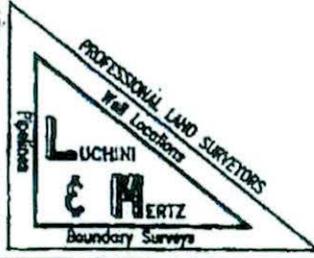
4508



Block 32, T-4-S,  
T. & P. RR. Co.



Steven L. Prewitt  
 March 2011  
 Currie "A" Lease



P. O. Box 1983 Midland, Texas 79702 (432) 684-6728 Fax 688-1845

Railroad Commission Permit Plat

**COG OPERATING LLC**  
**CURRIE A SEC. 4 TB**  
 Currie A Lease  
 Currie A State Lease  
 RRC Commingle #  
 Glasscock County, Texas

Scale: 1" = 2000'





File No. MF12153

GLASS COCK County  
CURRIE A SECA  
REQUEST TO COMMINGL

Date Filed: ~~8/24/2016~~ 8/24/2016

George P. Bush, Commissioner

By MTSCOTT



VICKIE L. GOTCHER  
Regulatory Analyst

May 6, 2014

Matthew T. Scott  
Texas General Land Office  
P. O. Box 12873  
Austin, TX 78711-2873

Re: Permission to Surface Commingle Production from HROW MF112153 (Currie "E" State Lease) with the Currie "E" North Lease a Non-GLO Lease

Dear Mr. Scott:

COG Operating LLC is requesting permission to Surface Commingle the HROW MF112153 (Currie "E" State Lease) with the Currie "E" Lease. Please find attached the data required for the surface commingle permit application.

Currie "E" State #3207 & #4101 – RRC# 41832

Currie "E" North #3208 – RRC#3208

If you have any questions, please contact me at (432) 818-2249; e-mail at [vgotcher@concho.com](mailto:vgotcher@concho.com) or Terry Burkes at (432) 818-2204; e-mail [tburkes@concho.com](mailto:tburkes@concho.com).

Sincerely,

A handwritten signature in blue ink that reads "Vickie L. Gotcher".

Vickie L. Gotcher  
COG Operating LLC

vg/enclosures



<input type="checkbox"/> New <input checked="" type="checkbox"/> Amended Existing Permit No. <u>6855</u>  Effective Month/Year of Requested Exception: <u>08</u> / <u>2013</u>	<b>RAILROAD COMMISSION OF TEXAS</b> <b>OIL AND GAS DIVISION</b>  <b>APPLICATION FOR EXCEPTION TO STATEWIDE RULES (SWR) 26 AND/OR 27</b>	DBC0308  <b>FORM P-17</b> Eff 01/2008 \$150 FILING FEE	District <u>08</u>  County <u>GLASSCOCK</u>
--	--	--	---

**SECTION 1. OPERATOR INFORMATION (See instructions under "Who Files")**

Operator Name (as shown on P-5): COG OPERATING LLC Operator P-5 No. 166150

Operator Address: 600 W ILLINOIS AVE City, State, Zip: MIDLAND TX 79701

**SECTION 2. GATHERER (of oil or condensate) INFORMATION (not required if 3b is checked)**

Gatherer Name (as shown on P-5): PLAINS MARKETING, LP Gatherer P-5 No. 667883

Gatherer Address: P O BOX 4648 City, State, Zip: HOUSTON TX 77210

Gatherer E-mail Address: bajenkins@paalp.com  
 (Optional - If provided, e-mail address will become part of this public record.)

**SECTION 3. APPLICATION APPLIES TO (CHECK ALL THAT APPLY):**  OIL  CASINGHEAD GAS  GAS WELL GAS  CONDENSATE

a.  Gas well full well stream into common separation and storage facility with liquids reported on Form PR.

b.  Gas well full well stream into a gasoline plant/common separation and storage facility with liquids reported on Form R-3 Serial # \_\_\_\_\_ (If full well stream is checked, the results of periodic tests to determine the number of stock tank barrels of liquid hydrocarbons recovered per 1,000 standard cubic feet of gas must be reported on Form G-10 in accordance with SWR 55. Attach an explanation of any exceptions to SWR 55.)

c.  Condensate and low-pressure Gas Well Gas are commingled into low-pressure separation and storage facilities.

d.  This request is for off lease:  storage  separation  metering.

e.  This exception is for common storage.

f.  This exception is for common separation.

g.  This exception is for casinghead gas metering by:  deduct metering  allocation by well test  other \_\_\_\_\_.

h.  This exception is for gas well gas metering by:  deduct metering  allocation by well test  other \_\_\_\_\_.

i.  This request is an exception to measure liquid with a: (check one below)  
 a Turbine Meter or  a Coriolis Meter (an additional \$150.00 and a letter of explanation is required for each exception.)

**SECTION 4. NOTICE REQUIREMENTS AND ALLOCATION METHOD. (CHECK ALL THAT APPLY)** The following questions determine if 21-day notice is required and applies to all wells proposed for commingling:

a.  The production is measured separately from all leases or individual wells before commingling. (Notice not required; Skip to Section 5)

b.  The royalty interests and working interests are the same with respect to identity and percentage. (Notice not required)

c.  The royalty interests and working interests are not the same with respect to identity and percentage. (Notice required)  
 If b. or c. checked, production will be allocated by:  W-10 (oil)  W-2 retest (oil)  PD Meter (oil & condensate)  G-10 (gas)

d.  The wells produce from multiple reservoirs. (Notice required unless 4e. or 4f. apply; see instructions for additional requirements)

e.  The wells produce from multiple reservoirs and have SWR10 exceptions. (Notice not required)

f.  The wells produce from multiple reservoirs and are measured separately from each reservoir. (Notice not required)

g.  Any one of the wells proposed for commingling produces from a Commission-designated reservoir for which special field rules have been adopted. (Notice required)

**SECTION 5.**  Wells proposed for commingling have an operator's name other than the applicant listed in SECTION 1. (See instructions)

**SECTION 6.**  For oil production, the production from all oil wells on each oil lease is to be commingled. (See instructions)

**SECTION 7. IDENTIFY LEASES AS SHOWN ON COMMISSION RECORDS (attach additional pages as needed)**

DISTRICT	RRC IDENTIFIER	ACTION			LEASE AND FIELD NAME	WELL NO.
08	762905	<input checked="" type="checkbox"/> Existing	<input type="checkbox"/> Add	<input type="checkbox"/> Delete	Currie 'E' North Garden City, S. (Wolfcamp)	3208
08	41832	<input checked="" type="checkbox"/> Existing	<input type="checkbox"/> Add	<input type="checkbox"/> Delete	Currie 'E' State Garden City, S. (Wolfcamp)	4101
08	41832	<input type="checkbox"/> Existing	<input checked="" type="checkbox"/> Add	<input type="checkbox"/> Delete	Currie 'E' State Garden City, S. (Wolfcamp)	3207
		<input type="checkbox"/> Existing	<input type="checkbox"/> Add	<input type="checkbox"/> Delete		

**ATTACH ADDITIONAL PAGES AS NEEDED.**  No additional pages  Additional pages \_\_\_\_\_ (# of additional pages)

**CERTIFICATE:** I declare under penalties in Sec. 91.143, Texas Natural Resources Code, that I am authorized to file this application, that this application was prepared by me or under my supervision and direction, and that the data and facts stated therein are true, correct, and complete to be the best of my knowledge. I certify that all requests for related required approvals from other affected State Agencies have been submitted and that I understand that any authorization granted by Commission approval of this application is contingent upon the approvals from other affected State Agencies being obtained.

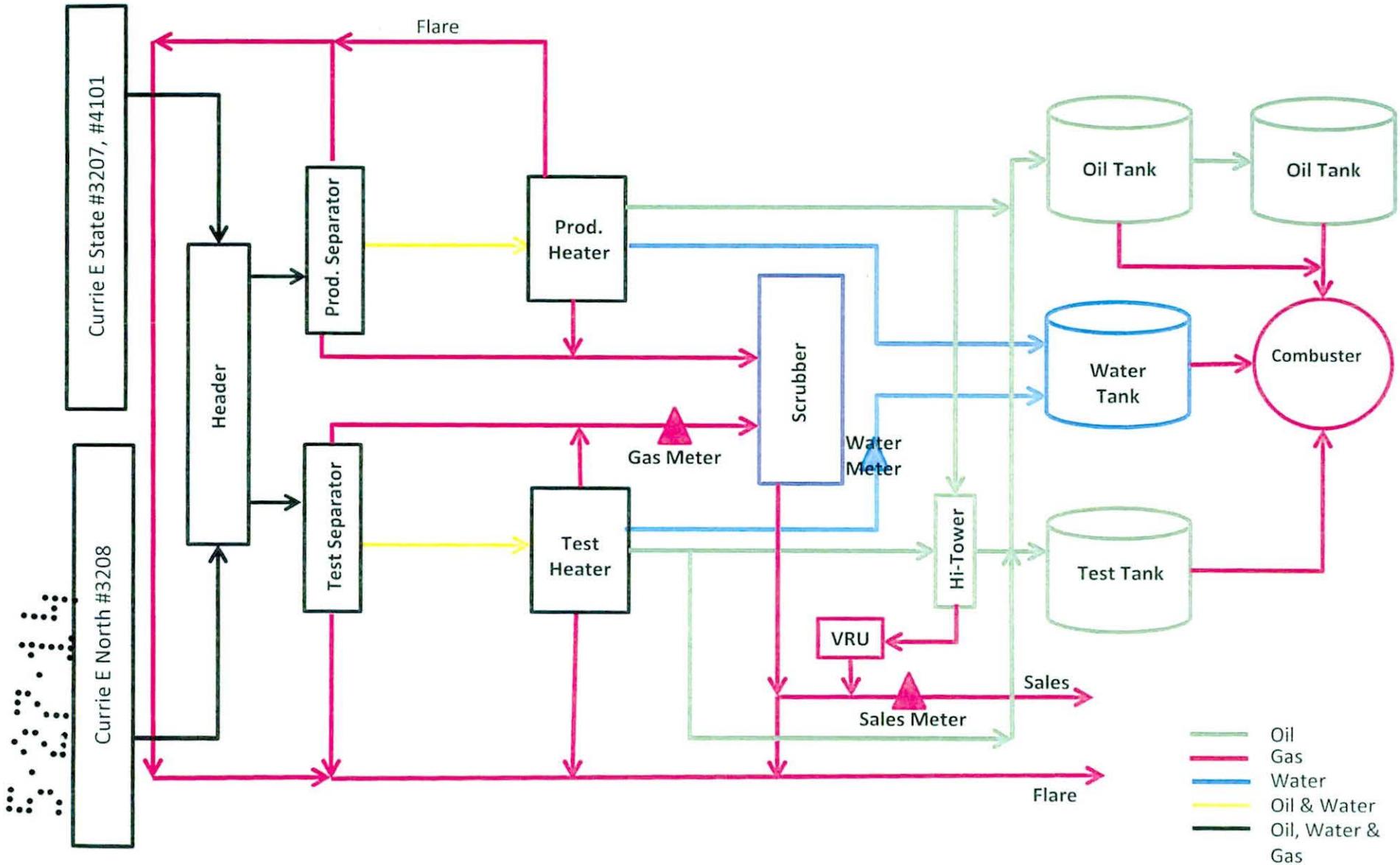
Signature: *Vicki E. Gotcher* Title: REGULATORY ANALYST Date: 04/11/2014

Operator E-mail Address: vgotcher@concho.com Operator Phone No. (432)818-2249  
 (Optional - If provided, e-mail address will become part of this public record.)

**RRC USE ONLY**

Commingling Permit No. \_\_\_\_\_ Approval date: \_\_\_\_\_ Approved by: \_\_\_\_\_

# CURRIE E NORTH SEC. 32 TANK BATTERY



## **Currie E North Sec. 32 TB**

Currie 'E' State #3207

Currie 'E' State #4101

Currie 'E' North #3208

### **Process Flow Narrative**

Oil, gas and water from individual wells will be produced to the Header. From there, individual well streams can be diverted to either the Test Separator or to the Production Separator.

For test purposes, after separation in the Test Separator, gas will be metered through the gas meter, flow through the 2-phase Gas Scrubber and sent to the gas sales meter for measurement and sales. Oil and water will then go to the Test Heater for separation. After separation, any remaining gas will flow through the gas meter and then to the 2-phase Gas Scrubber. The oil will flow through to the Hi-Tower and then to the Test Tank to be gauged and measured. Any remaining gas will flow from the Hi-Tower to the VRU and then on to sales. Water will be metered and sent to the water tanks. Any production vapors that accumulate in the oil and water tanks will go to the Combuster.

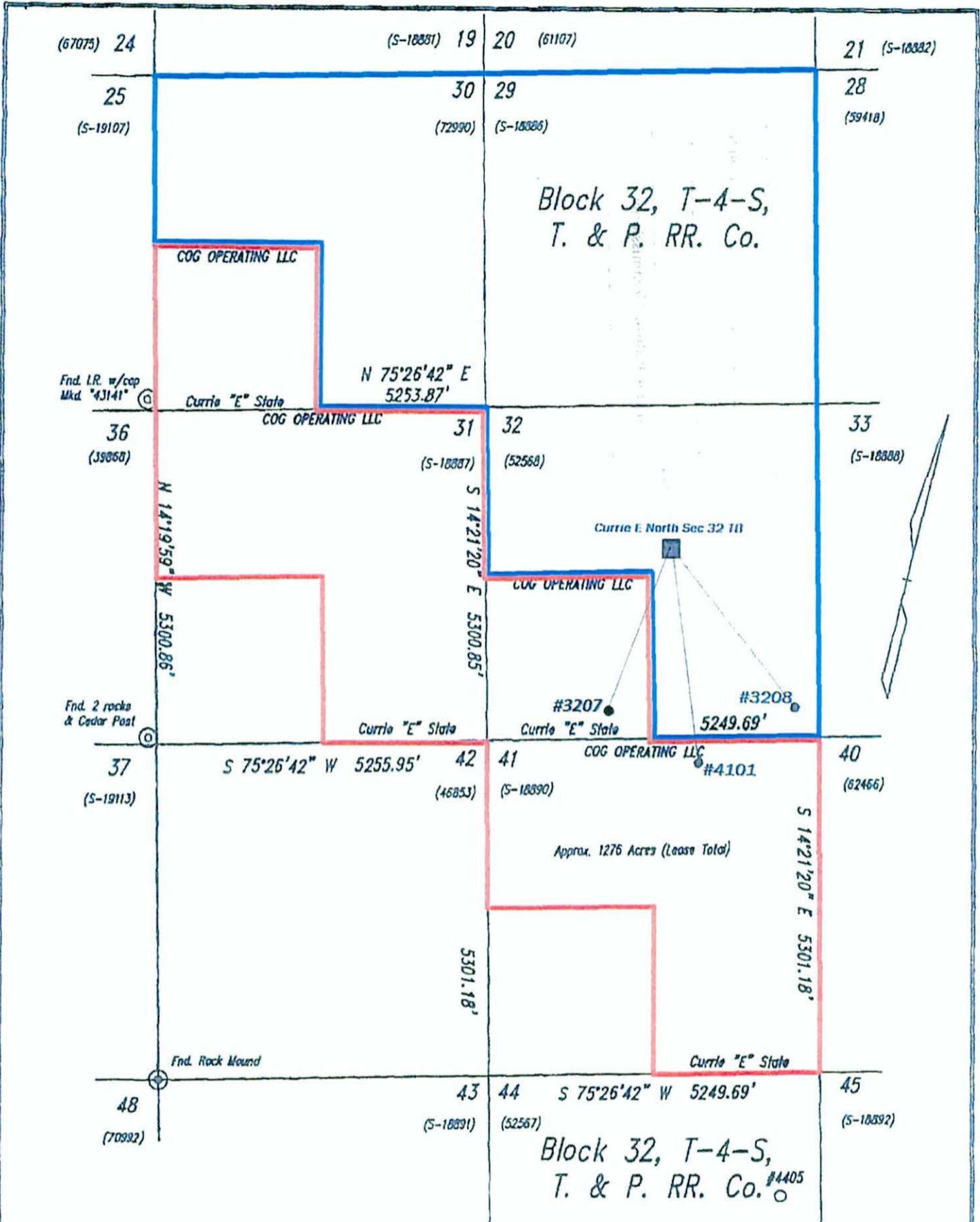
For wells not in test, after separation, they will flow to the Production Separator where the well stream is separated. Gas will be sent to the 2-phase Gas Scrubber and then on to the gas sales meter for measurement and sales. The oil is then sent to the oil tanks and the water is sent to the water tanks.

### **Allocation Method**

Oil, gas and water production will be allocated daily to individual wells based on well tests. Individual well test values for oil, gas and water, along with daily oil and water tank straps and gas sales meter volumes will be entered into our in-house production management software. The software will then allocate the total battery oil, gas and water volumes back to the well level based on the last well test from each well. Monthly oil and gas sales will be allocated based on the sum of daily allocated well production.

47.23.5





Note: Survey Reconstruction filed in the Office of Luchini and Mertz Land Surveying Company.  
 Note: All bearings and coordinates shown are based on the Texas Coordinate System of 1927, Central Zone.  
 A combined grid factor of 0.99996532 must be divided into all distances to obtain a true horizontal distance.  
 Note: Example: (S-99999) indicates General Land Office file number.

■ Currie 'E' North Lease  
■ Currie 'E' State Lease

STEVEN L. PREWIT  
5106  
PROFESSIONAL  
LAND SURVEYOR

*Steven L. Prewit*

March 2011  
Currie 'E' State Lease

PROFESSIONAL LAND SURVEYORS  
Well Locations  
Boundary Surveys

PROFESSIONAL LAND SURVEYORS

Railroad Commission Permit Plot

**COG OPERATING LLC**

**CURRIE 'E' NORTH SEC. 32 TANK BATTERY**

Currie 'E' State Lease  
 Currie 'E' North Lease  
 RRC Commingles #6855  
 Glasscock County, Texas

Scale: 1" = 2000'



2014

File No. MF112153

GLASSOCK County  
CURRIE SECTION 32  
REQUEST TO COMMINGLE

Date Filed: 8/24/2016

George P. Bush, Commissioner

M. I. SCOTT



VICKIE L. GOTCHER  
Regulatory Analyst

May 6, 2014

Matthew T. Scott  
Texas General Land Office  
P. O. Box 12873  
Austin, TX 78711-2873

RE: Permission to Surface Commingle Production from HROW MF112153  
(Currie "E" State Lease) with the Currie "E" Lease a Non-GLO lease - Revision

Dear Mr. Scott:

Please find enclosed the data required for COG Operating LLC to obtain permission to Surface Commingle HROW MF112153 (Currie "E" State Lease) with the Currie "E" lease.

The wells involved in this commingle are as follows:

Currie 'E' State #3102, #3108, #3113 – RRC# 41832

Currie 'E' #3107 – RRC#38162

If you have any questions, please contact me at (432) 818-2249; e-mail at [vgotcher@concho.com](mailto:vgotcher@concho.com) or Terry Burkes at (432) 818-2204; e-mail [tburkes@concho.com](mailto:tburkes@concho.com).

Sincerely,

Vickie L. Gotcher  
COG Operating LLC

vg/enclosures



<input type="checkbox"/> New <input checked="" type="checkbox"/> Amended Existing Permit No. <u>6282</u>  Effective Month/Year of Requested Exception: <u>01</u> / <u>2014</u>	RAILROAD COMMISSION OF TEXAS OIL AND GAS DIVISION  <b>APPLICATION FOR EXCEPTION TO STATEWIDE RULES (SWR) 26 AND/OR 27</b>	DBC0308	<b>FORM P-17</b> Eff 01/2008 \$150 FILING FEE  District <u>08</u> County <u>GLASSCOCK</u>
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COPY

**SECTION 1. OPERATOR INFORMATION (See instructions under "Who Files")**

Operator Name (as shown on P-5): COG OPERATING LLC Operator P-5 No. 166150

Operator Address: 600 W ILLINOIS AVE City, State, Zip: MIDLAND TX 79701

**SECTION 2. GATHERER (of oil or condensate) INFORMATION (not required if 3b is checked)**

Gatherer Name (as shown on P-5): PLAINS MARKETING, LP Gatherer P-5 No. 667883

Gatherer Address: PO BOX 4647 City, State, Zip: HOUSTON TX 77210

Gatherer E-mail Address: bajenkins@paalp.com  
 (Optional - If provided, e-mail address will become part of this public record.)

**SECTION 3. APPLICATION APPLIES TO (CHECK ALL THAT APPLY):**  OIL  CASINGHEAD GAS  GAS WELL GAS  CONDENSATE

a.  Gas well full well stream into common separation and storage facility with liquids reported on Form PR.  
 b.  Gas well full well stream into a gasoline plant/common separation and storage facility with liquids reported on Form R-3 Serial # \_\_\_\_\_ (If full well stream is checked, the results of periodic tests to determine the number of stock tank barrels of liquid hydrocarbons recovered per 1,000 standard cubic feet of gas must be reported on Form G-10 in accordance with SWR 55. Attach an explanation of any exceptions to SWR 55.)  
 c.  Condensate and low-pressure Gas Well Gas are commingled into low-pressure separation and storage facilities.  
 d.  This request is for off lease:  storage  separation  metering.  
 e.  This exception is for common storage.  
 f.  This exception is for common separation.  
 g.  This exception is for casinghead gas metering by:  deduct metering  allocation by well test  other \_\_\_\_\_  
 h.  This exception is for gas well gas metering by:  deduct metering  allocation by well test  other \_\_\_\_\_  
 i.  This request is an exception to measure liquid with a: (check one below)  
 a Turbine Meter or  a Coriolis Meter (an additional \$150.00 and a letter of explanation is required for each exception.)

**SECTION 4. NOTICE REQUIREMENTS AND ALLOCATION METHOD. (CHECK ALL THAT APPLY)** The following questions determine if 21-day notice is required and applies to all wells proposed for commingling:

a.  The production is measured separately from all leases or individual wells before commingling. (Notice not required; Skip to Section 5)  
 b.  The royalty interests and working interests are the same with respect to identity and percentage. (Notice not required)  
 c.  The royalty interests and working interests are not the same with respect to identity and percentage. (Notice required)  
 If b. or c. checked, production will be allocated by:  W-10 (oil)  W-2 retest (oil)  PD Meter (oil & condensate)  G-10 (gas)  
 d.  The wells produce from multiple reservoirs. (Notice required unless 4e. or 4f. apply; see instructions for additional requirements)  
 e.  The wells produce from multiple reservoirs and have SWR10 exceptions. (Notice not required)  
 f.  The wells produce from multiple reservoirs and are measured separately from each reservoir. (Notice not required)  
 g.  Any one of the wells proposed for commingling produces from a Commission-designated reservoir for which special field rules have been adopted. (Notice required)

**SECTION 5.**  Wells proposed for commingling have an operator's name other than the applicant listed in SECTION 1. (See instructions)

**SECTION 6.**  For oil production, the production from all oil wells on each oil lease is to be commingled. (See instructions)

**SECTION 7. IDENTIFY LEASES AS SHOWN ON COMMISSION RECORDS (attach additional pages as needed)**

DISTRICT	RRC IDENTIFIER	ACTION	LEASE AND FIELD NAME	WELL NO.
08	38162	<input checked="" type="checkbox"/> Existing <input type="checkbox"/> Add <input type="checkbox"/> Delete	Currie 'E' Garden City, S. (Wolfcamp)	3107
08	41832	<input checked="" type="checkbox"/> Existing <input type="checkbox"/> Add <input type="checkbox"/> Delete	Currie 'E' State Garden City, S. (Wolfcamp)	3102
08	41832	<input checked="" type="checkbox"/> Existing <input type="checkbox"/> Add <input type="checkbox"/> Delete	Currie 'E' State Garden City, S. (Wolfcamp)	3113
08	41832	<input checked="" type="checkbox"/> Existing <input type="checkbox"/> Add <input type="checkbox"/> Delete	Currie 'E' State Garden City, S. (Wolfcamp)	3108

**ATTACH ADDITIONAL PAGES AS NEEDED.**  No additional pages  Additional pages 1 (# of additional pages)

**CERTIFICATE:** I declare under penalties in Sec. 91.143, Texas Natural Resources Code, that I am authorized to file this application, that this application was prepared by me or under my supervision and direction, and that the data and facts stated therein are true, correct, and complete to be the best of my knowledge. I certify that all requests for related required approvals from other affected State Agencies have been submitted and that I understand that any authorization granted by Commission approval of this application is contingent upon the approvals from other affected State Agencies being obtained.

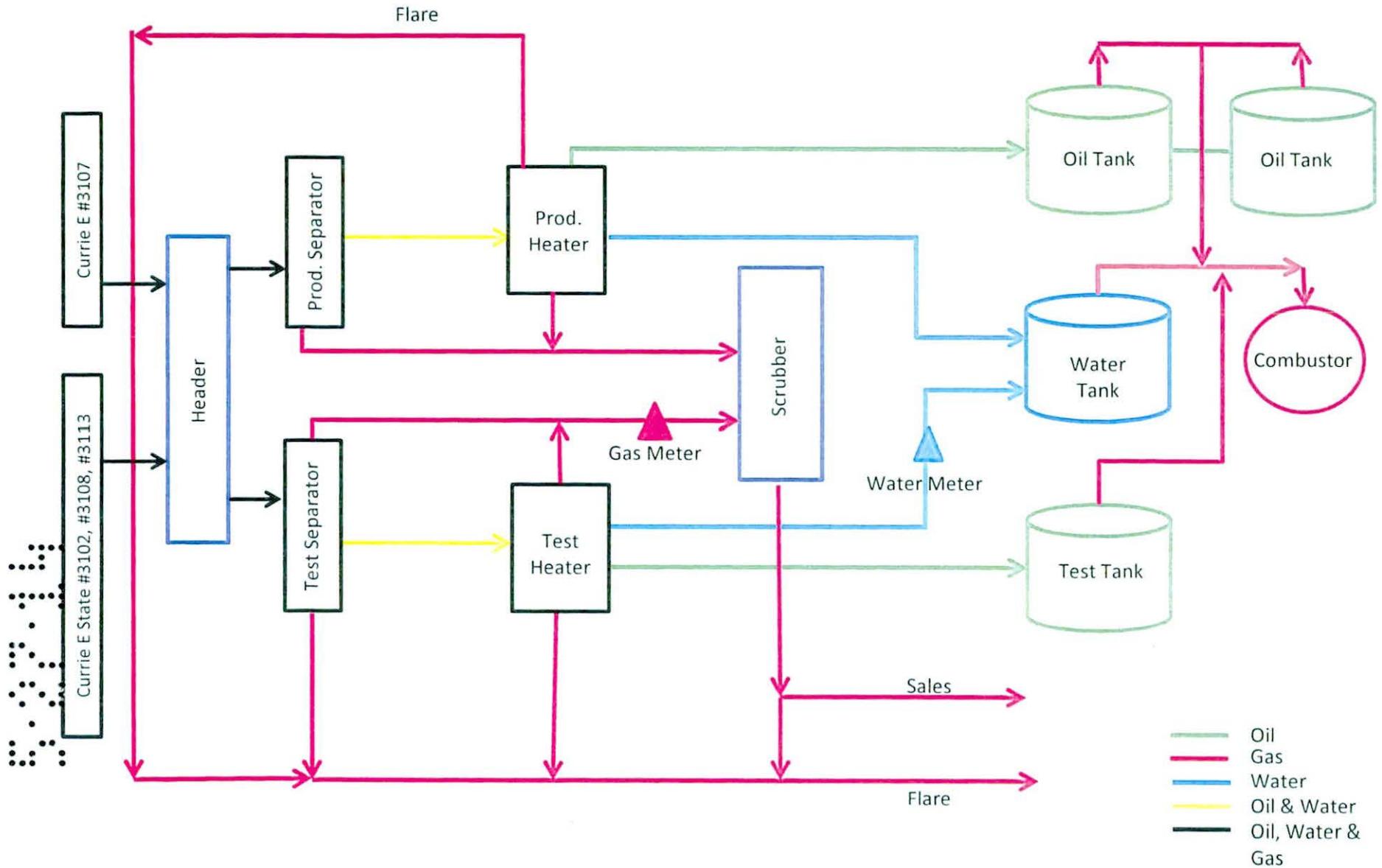
Signature Victorie L. Gotcher Title Regulatory Analyst Date 04/14/2014  
 Operator E-mail Address: vgotcher@concho.com Operator Phone No. (432)818-2249  
 (Optional - If provided, e-mail address will become part of this public record.)

**RRC USE ONLY**

Commingling Permit No. \_\_\_\_\_ Approval date: \_\_\_\_\_ Approved by: \_\_\_\_\_



# CURRIE E SEC. 31 TANK BATTERY



## **Currie E Sec. 31 Tank Battery**

Currie 'E' State #3102

Currie 'E' State #3108

Currie 'E' State #3113

Currie 'E' #3107

### **Process Flow Narrative**

Oil, gas and water from individual wells will be produced to the Header. From there, individual well streams can be diverted to either the 2-phase Test Separator or to the Production Separator..

For test purposes, after separation in the 2-phase Test Separator, gas will flow through the gas meter to be measured and then to the 2-phase Gas Scrubber. After the 2-phase Gas Scrubber, the gas will flow to the gas sales meter for sales and measurement or to the flare line. Oil and water will go to the Test Heater for separation. After separation, any remaining gas will flow through the gas meter to the 2-phase Gas Scrubber and then to the sales meter for measurement and sales or to the flare line. The oil is sent to the oil tanks where it will be gauged and measured. The water will be metered and sent to the water tank. Any production vapors that accumulate in the oil and water tanks will go to the Combuster

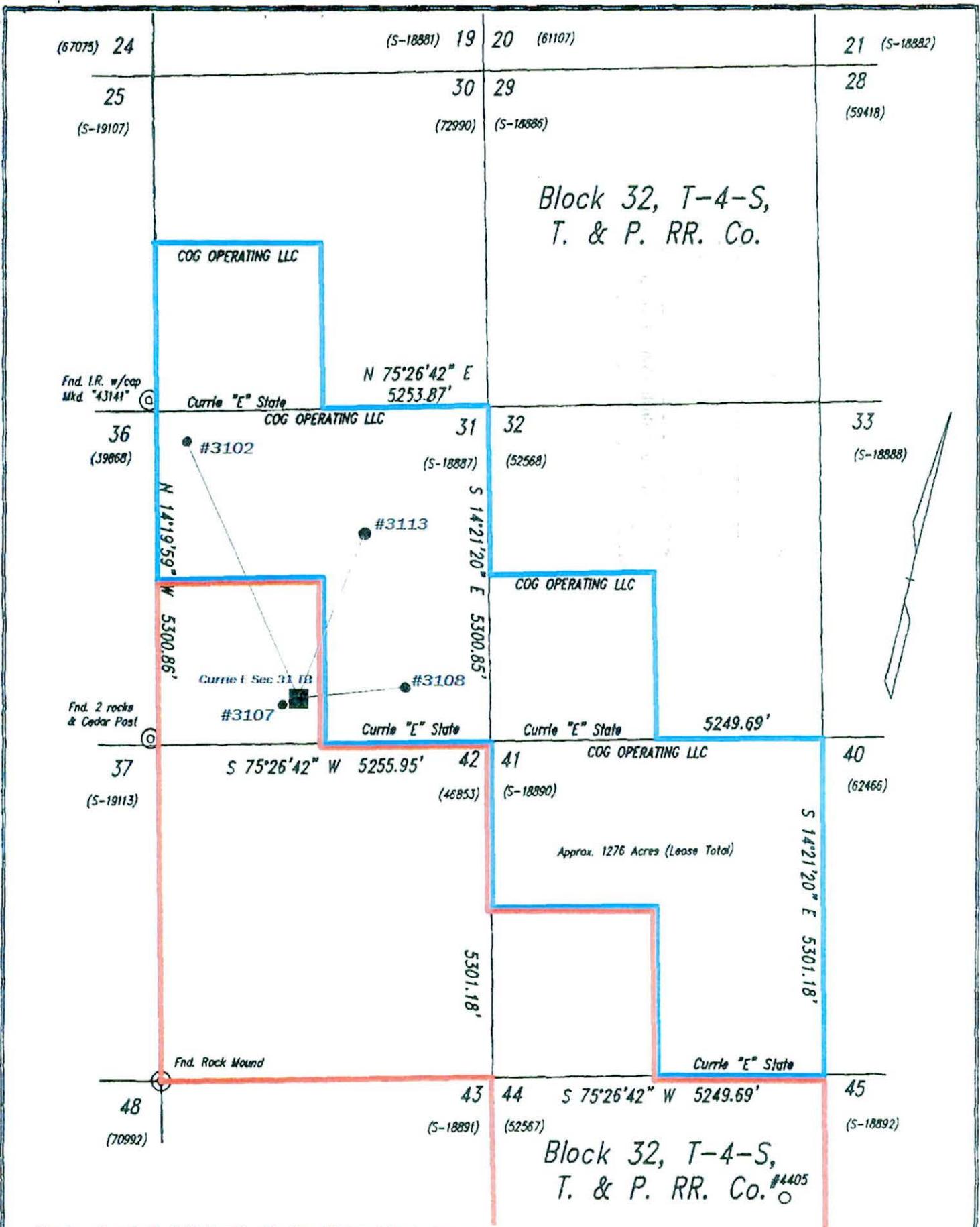
For wells not in test, they will flow to the Production Separator. Gas will be sent to the 2-phase Gas Scrubber and then on to the sales or flare line. Oil is then sent to the oil tanks and the water is sent to the water tanks.

### **Allocation Method**

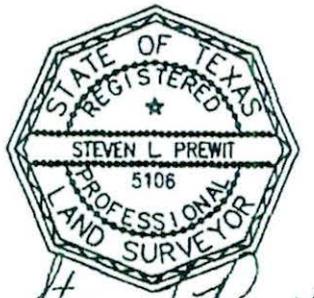
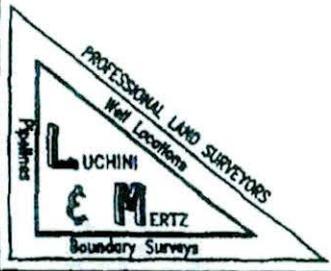
Oil, gas and water production will be allocated daily to individual wells based on well tests. Individual well test values for oil, gas and water, along with daily oil and water tank straps and gas sales meter volumes will be entered into our in-house production management software. The software will then allocate the total battery oil, gas and water volumes back to the well level based on the last well test from each well. Monthly oil and gas sales will be allocated based on the sum of daily allocated well production.







Note: Survey Reconstruction filed in the Office of Luchini and Mertz Land Surveying Company.  
 Note: All bearings and coordinates shown are based on the Texas Coordinate System of 1927, Central Zone.  
 A combined grid factor of 0.99986532 must be divided into all distances to obtain a true horizontal distance.  
 Note: Example: (S-98999) indicates General Land Office file number.



Steven L. Prewit  
 March 2011  
 Currie "E" State Lease

Railroad Commission Permit Plat

**COG OPERATING LLC**  
**CURRIE E SEC. 31 TANK BATTERY**  
 Currie 'E' State Lease  
 Currie 'E' Lease  
 RRC Commingle #6292

Scale: 1" = 2000'



File No. ME112153

GLASS COCK County  
CURRIE 'E' SECTION 3)  
REQUEST TO COMMINGLE

Date Filed: 3/24/2016

George P. Bush, Commissioner

By MT SCOTT



VICKIE L. GOTCHER  
Regulatory Analyst

May 6, 2014

Matthew T. Scott  
Texas General Land Office  
P. O. Box 12873  
Austin, TX 78711-2873

RE: Permission to Surface Commingle Production from HROW MF112153  
(Currie "E" State Lease) with the Currie "E" Lease a Non-GLO lease

Dear Mr. Scott:

I am resubmitting the data required for COG Operating LLC to obtain permission to Surface Commingle HROW MF112153 (Currie "E" State Lease) with the Currie "E" lease. All revised data is attached for the surface commingle permit application.

The wells involved in this commingle are as follows:

Currie "E" State #4102 & #4104 – RRC# 41832

Currie "E" #4115, #4203, #4204, #4205, #4207 – RRC#38162

If you have any questions, please contact me at (432) 818-2249; e-mail at [vgotcher@concho.com](mailto:vgotcher@concho.com) or Terry Burkes at (432) 818-2204; e-mail [tburkes@concho.com](mailto:tburkes@concho.com).

Sincerely,

Vickie L. Gotcher  
COG Operating LLC

vg/enclosures



<input type="checkbox"/> New <input checked="" type="checkbox"/> Amended Existing Permit No. <u>6768</u>  Effective Month/Year of Requested Exception: <u>04</u> / <u>2014</u>	RAILROAD COMMISSION OF TEXAS OIL AND GAS DIVISION  <b>APPLICATION FOR EXCEPTION TO STATEWIDE RULES (SWR) 26 AND/OR 27</b>	DBC0308	<b>FORM P-17</b> Eff 01/2008 \$150 FILING FEE
		District <u>08</u> County <u>GLASSCOCK</u>	

COPY

**SECTION 1. OPERATOR INFORMATION (See instructions under "Who Files")**

Operator Name (as shown on P-5): COG OPERATING LLC Operator P-5 No. 166150  
 Operator Address: 600 W ILLINOIS AVE City, State, Zip: MIDLAND TX 79701

**SECTION 2. GATHERER (of oil or condensate) INFORMATION (not required if 3b is checked)**

Gatherer Name (as shown on P-5): PLAINS MARKETING LP Gatherer P-5 No. 667883  
 Gatherer Address: P O BOX 4648 City, State, Zip: HOUSTON TX 77210  
 Gatherer E-mail Address: bajenkins@paalp.com  
 (Optional - If provided, e-mail address will become part of this public record.)

**SECTION 3. APPLICATION APPLIES TO (CHECK ALL THAT APPLY):**  OIL  CASINGHEAD GAS  GAS WELL GAS  CONDENSATE

- a.  Gas well full well stream into common separation and storage facility with liquids reported on Form PR.
- b.  Gas well full well stream into a gasoline plant/common separation and storage facility with liquids reported on Form R-3 Serial # \_\_\_\_\_ (If full well stream is checked, the results of periodic tests to determine the number of stock tank barrels of liquid hydrocarbons recovered per 1,000 standard cubic feet of gas must be reported on Form G-10 in accordance with SWR 55. Attach an explanation of any exceptions to SWR 55.)
- c.  Condensate and low-pressure Gas Well Gas are commingled into low-pressure separation and storage facilities.
- d.  This request is for off lease:  storage  separation  metering.
- e.  This exception is for common storage.
- f.  This exception is for common separation.
- g.  This exception is for casinghead gas metering by:  deduct metering  allocation by well test  other \_\_\_\_\_.
- h.  This exception is for gas well gas metering by:  deduct metering  allocation by well test  other \_\_\_\_\_.
- i.  This request is an exception to measure liquid with a: (check one below)  
 a Turbine Meter or  a Coriolis Meter (an additional \$150.00 and a letter of explanation is required for each exception.)

**SECTION 4. NOTICE REQUIREMENTS AND ALLOCATION METHOD. (CHECK ALL THAT APPLY)** The following questions determine if 21-day notice is required and applies to all wells proposed for commingling:

- a.  The production is measured separately from all leases or individual wells before commingling. (Notice not required; Skip to Section 5)
- b.  The royalty interests and working interests are the same with respect to identity and percentage. (Notice not required)
- c.  The royalty interests and working interests are not the same with respect to identity and percentage. (Notice required)  
 If b. or c. checked, production will be allocated by:  W-10 (oil)  W-2 retest (oil)  PD Meter (oil & condensate)  G-10 (gas)
- d.  The wells produce from multiple reservoirs. (Notice required unless 4e. or 4f. apply; see instructions for additional requirements)
- e.  The wells produce from multiple reservoirs and have SWR10 exceptions. (Notice not required)
- f.  The wells produce from multiple reservoirs and are measured separately from each reservoir. (Notice not required)
- g.  Any one of the wells proposed for commingling produces from a Commission-designated reservoir for which special field rules have been adopted. (Notice required)

**SECTION 5.**  Wells proposed for commingling have an operator's name other than the applicant listed in SECTION 1. (See instructions)

**SECTION 6.**  For oil production, the production from all oil wells on each oil lease is to be commingled. (See instructions)

**SECTION 7. IDENTIFY LEASES AS SHOWN ON COMMISSION RECORDS (attach additional pages as needed)**

DISTRICT	RRC IDENTIFIER	ACTION	LEASE AND FIELD NAME	WELL NO.
08	38162	<input checked="" type="checkbox"/> Existing <input type="checkbox"/> Add <input type="checkbox"/> Delete	Currie 'E' Garden City, S. (Wolfcamp)	4115
08	38162	<input checked="" type="checkbox"/> Existing <input type="checkbox"/> Add <input type="checkbox"/> Delete	Currie 'E' Garden City, S. (Wolfcamp)	4203
08	38162	<input checked="" type="checkbox"/> Existing <input type="checkbox"/> Add <input type="checkbox"/> Delete	Currie 'E' Garden City, S. (Wolfcamp)	4204
08	38162	<input checked="" type="checkbox"/> Existing <input type="checkbox"/> Add <input type="checkbox"/> Delete	Currie 'E' Garden City, S. (Wolfcamp)	4205

**ATTACH ADDITIONAL PAGES AS NEEDED.**  No additional pages  Additional pages \_\_\_\_\_ (# of additional pages)

**CERTIFICATE:** I declare under penalties in Sec. 91.143, Texas Natural Resources Code, that I am authorized to file this application, that this application was prepared by me or under my supervision and direction, and that the data and facts stated therein are true, correct, and complete to be the best of my knowledge. I certify that all requests for related required approvals from other affected State Agencies have been submitted and that I understand that any authorization granted by Commission approval of this application is contingent upon the approvals from other affected State Agencies being obtained.

Signature: Victoria G. Gotcher Title: REGULATORY ANALYST Date: 04/02/2014  
 Operator E-mail Address: vgotcher@concho.com Operator Phone No. (432)818-2249  
 (Optional - If provided, e-mail address will become part of this public record.)

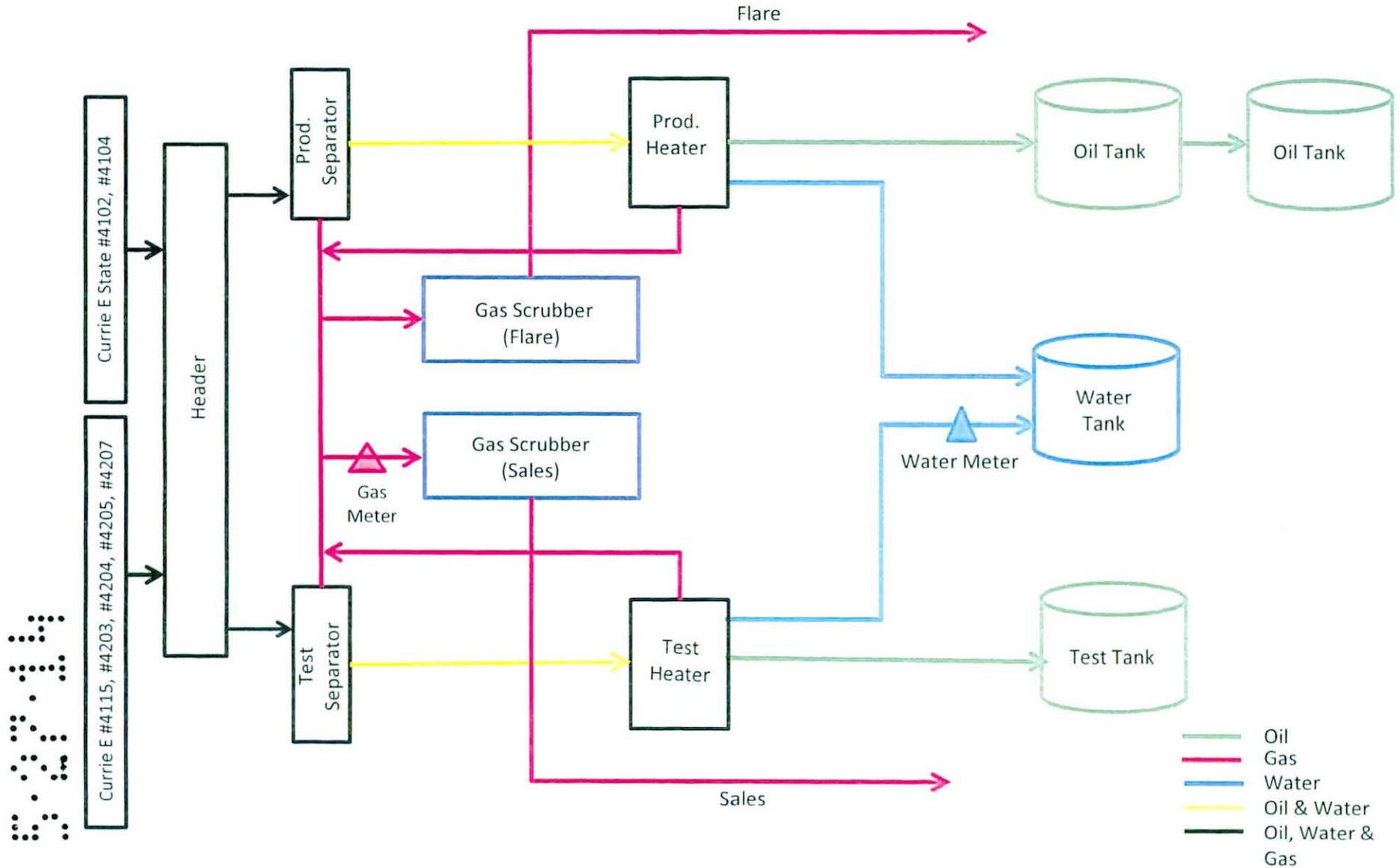
RRC USE ONLY



Commingling Permit No. \_\_\_\_\_ Approval date: \_\_\_\_\_ Approved by: \_\_\_\_\_



# CURRIE E SEC. 42 TANK BATTERY



## **Currie E Sec. 42 TB**

Currie 'E' #4115  
Currie 'E' #4203  
Currie 'E' #4204  
Currie 'E' #4205  
Currie 'E' #4207  
Currie 'E' State #4102  
Currie 'E' State #4104

### **Process Flow Narrative**

Oil, gas and water from individual wells will be produced to the Header. From there, individual well streams can be diverted to either the Test Separator or to the Production Separator.

For test purposes, after separation in the 2-phase Test Separator, gas will flow through the gas meter to be measured and then to the 2-phase gas scrubber. After the 2-phase gas scrubber, the gas will flow to the gas sales meter for measurement and sales or to the flare line. Oil and water will go to the Test Heater for separation. After separation, any remaining gas will flow through the gas meter to the 2-phase gas scrubber and then to sales, or to the 2-phase gas scrubber for the flare line. The oil will be sent to the oil tanks to be gauged and measured and the water will be metered and sent to the water tanks.

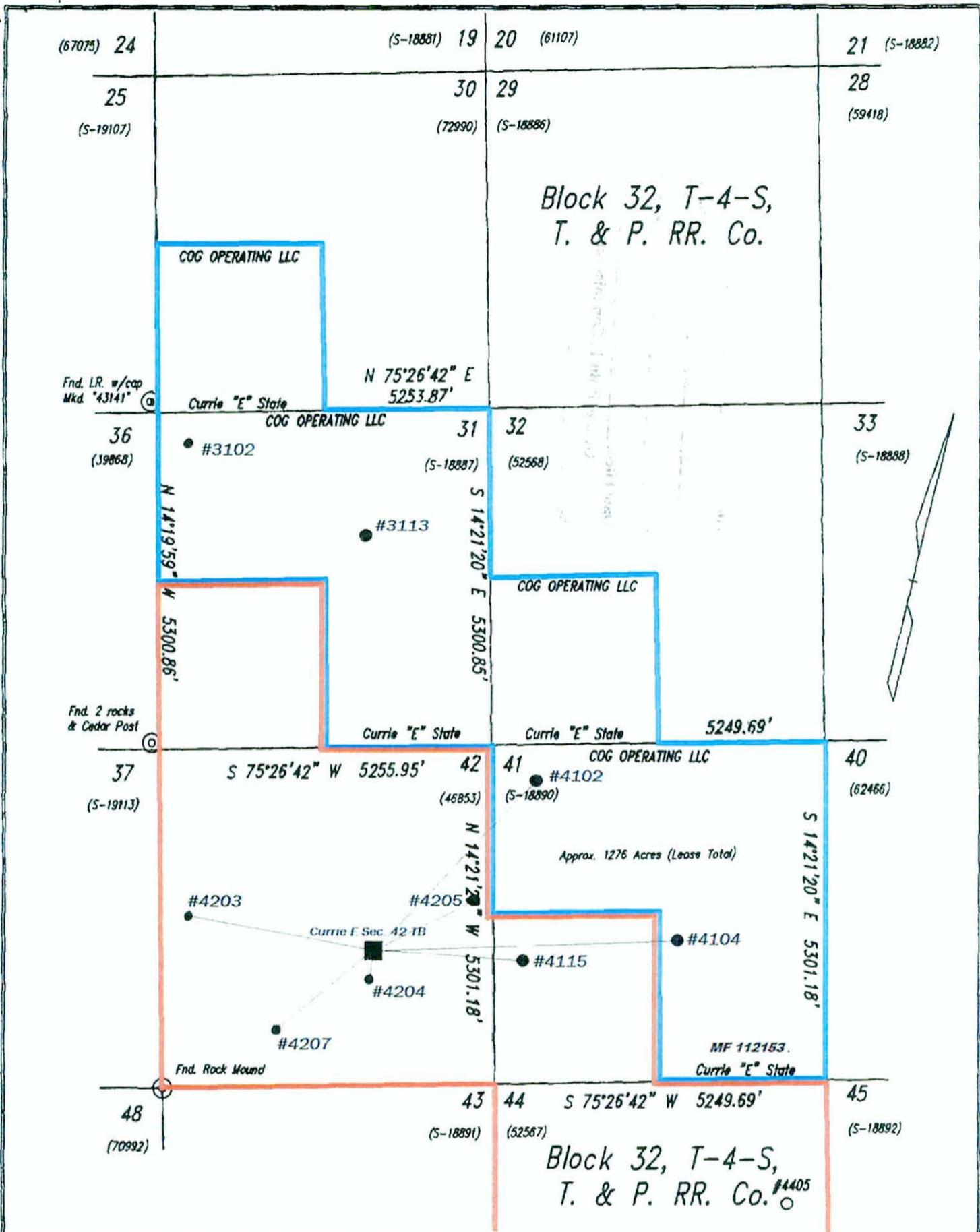
For wells not in test, they will flow to the Production Separator. Gas will be sent to the 2-phase Gas Scrubber and then on to the sales line or the 2-phase Gas Scrubber and to the flare line. Oil is sent to the oil tanks and water is sent to the water tanks.

### **Allocation Method**

Oil, gas and water production will be allocated daily to individual wells based on well tests. Individual well test values for oil, gas and water, along with daily oil and water tank straps and gas sales meter volumes will be entered into our in-house production management software. The software will then allocate the total battery oil, gas and water volumes back to the well level based on the last well test from each well. Monthly oil and gas sales will be allocated based on the sum of daily allocated well production.

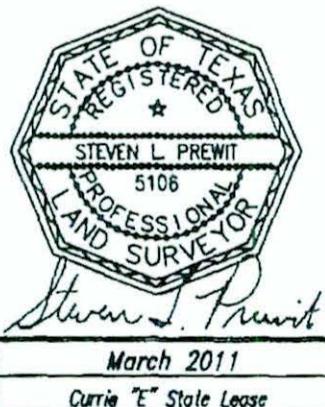
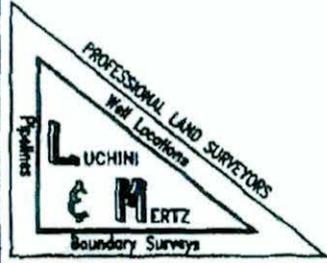
4205





Note: Survey Reconstruction filed in the Office of Luchini and Mertz Land Surveying Company.  
 Note: All bearings and coordinates shown are based on the Texas Coordinate System of 1927, Central Zone.  
 A combined grid factor of 0.9998632 must be divided into all distances to obtain a true horizontal distance.  
 Note: Example: (S-98999) indicates General Land Office file number.

Currie 'E' State Lease MF 112153  
 Currie 'E' Lease



Railroad Commission Permit Plat

COG OPERATING LLC  
 CURRIE E SEC. 42 TANK BATTERY  
 Currie 'E' State Lease  
 Currie 'E' Lease  
 RRC Commingle # 6768  
 Glasscock County, Texas

Scale: 1" = 200'

2  
3  
4  
5

File No. MF112153

GLASSCOCK County  
CURRIE 'E' SEC 41 & 42  
RESUBMIT REQUEST TO COMMINGLE

RESUBMIT Date Filed: 8/24/2016

George P. Bush, Commissioner

By M T SCOTT



VICKIE L. GOTCHER  
Regulatory Analyst

March 18, 2014

Matthew T. Scott  
Texas General Land Office  
P. O. Box 12873  
Austin, TX 78711-2873

RE: Permission to Surface Commingle Production from MF112153 (Currie "E" State Lease) with the Currie "E" Lease a Non-GLO lease

Dear Mr. Scott:

COG Operating LLC is requesting permission to Surface Commingle MF112153 (Currie "E" State Lease) with the Currie "E" lease. Please find attached the data required for the surface commingle permit application.

The wells involved in this commingle are as follows:

Currie "E" State #4102 & #4104 – RRC# 41832

Currie "E" #4115, #4203, #4204, #4205, #4207 – RRC#38162

Please contact me if you have any questions. I can be reached at (432) 818-2249 or by e-mail at [vgotcher@concho.com](mailto:vgotcher@concho.com).

Sincerely,

Vickie L. Gotcher  
COG Operating LLC

vg/enclosure

<input type="checkbox"/> New <input checked="" type="checkbox"/> Amended Existing Permit No. <u>6768</u>	<b>RAILROAD COMMISSION OF TEXAS</b> <b>OIL AND GAS DIVISION</b> <b>APPLICATION FOR EXCEPTION TO</b> <b>STATEWIDE RULES (SWR) 26 AND/OR 27</b> <i>Currie E Sec 42 CTB</i> <b>3084277</b>	DBC0308 <b>FORM P-17</b> Eff 01/2008 \$150 FILING FEE District <u>08</u> County <u>GLASSCOCK</u>
Effective Month/Year of Requested Exception: <u>11 / 2013</u>		

**SECTION 1. OPERATOR INFORMATION (See Instructions under "Who Files")**

Operator Name (as shown on P-5): COG OPERATING LLC      Operator P-5 No. 166150

Operator Address: 600 W ILLINOIS AVE      City, State, Zip: MIDLAND TX 79701

**SECTION 2. GATHERER (of oil or condensate) INFORMATION (not required if 3b is checked)**

Gatherer Name (as shown on P-5): PLAINS MARKETING LP      Gatherer P-5 No. 667883

Gatherer Address: P. O. BOX 4648      City, State, Zip: HOUSTON TX 77210

Gatherer E-mail Address: \_\_\_\_\_  
 (Optional - If provided, e-mail address will become part of this public record.)

**SECTION 3. APPLICATION APPLIES TO (CHECK ALL THAT APPLY):**     OIL     CASINGHEAD GAS     GAS WELL GAS     CONDENSATE

a.  Gas well full well stream into common separation and storage facility with liquids reported on Form PR.

b.  Gas well full well stream into a gasoline plant/common separation and storage facility with liquids reported on Form R-3 Serial # \_\_\_\_\_ (If full well stream is checked, the results of periodic tests to determine the number of stock tank barrels of liquid hydrocarbons recovered per 1,000 standard cubic feet of gas must be reported on Form G-10 in accordance with SWR 55. Attach an explanation of any exceptions to SWR 55.)

c.  Condensate and low-pressure Gas Well Gas are commingled into low-pressure separation and storage facilities.

d.  This request is for off lease:     storage     separation     metering.

e.  This exception is for common storage.

f.  This exception is for common separation.

g.  This exception is for casinghead gas metering by:     deduct metering     allocation by well test     other \_\_\_\_\_

h.  This exception is for gas well gas metering by:     deduct metering     allocation by well test     other \_\_\_\_\_

j.  This request is an exception to measure liquid with a: (check one below)  
 a Turbine Meter or  a Coriolis Meter (an additional \$150.00 and a letter of explanation is required for each exception.)

**SECTION 4. NOTICE REQUIREMENTS AND ALLOCATION METHOD. (CHECK ALL THAT APPLY)** The following questions determine if 21-day notice is required and applies to all wells proposed for commingling:

a.  The production is measured separately from all leases or individual wells before commingling. (Notice not required; Skip to Section 5)

b.  The royalty interests and working interests are the same with respect to identity and percentage. (Notice not required)

c.  The royalty interests and working interests are not the same with respect to identity and percentage. (Notice required)  
 If b. or c. checked, production will be allocated by:  W-10 (oil)     W-2 retest (oil)     PD Meter (oil & condensate)     G-10 (gas)

d.  The wells produce from multiple reservoirs. (Notice required unless 4e. or 4f. apply; see instructions for additional requirements)

e.  The wells produce from multiple reservoirs and have SWR10 exceptions. (Notice not required)

f.  The wells produce from multiple reservoirs and are measured separately from each reservoir. (Notice not required)

g.  Any one of the wells proposed for commingling produces from a Commission-designated reservoir for which special field rules have been adopted. (Notice required)

**SECTION 5.**  Wells proposed for commingling have an operator's name other than the applicant listed in SECTION 1. (See instructions)

**SECTION 6.**  For oil production, the production from all oil wells on each oil lease is to be commingled. (See instructions)

**SECTION 7. IDENTIFY LEASES AS SHOWN ON COMMISSION RECORDS (attach additional pages as needed)**

DISTRICT	RRC IDENTIFIER	ACTION	LEASE AND FIELD NAME	WELL NO.
7C	38162	<input checked="" type="checkbox"/> Existing <input type="checkbox"/> Add <input type="checkbox"/> Delete	CURRIE "E" - Garden City, S. (Wolfcamp)	4115
7C	38162	<input checked="" type="checkbox"/> Existing <input type="checkbox"/> Add <input type="checkbox"/> Delete	CURRIE "E" - Garden City, S. (Wolfcamp)	4203
7C	38162	<input checked="" type="checkbox"/> Existing <input type="checkbox"/> Add <input type="checkbox"/> Delete	CURRIE "E" - Garden City, S. (Wolfcamp)	4204
7C	38162	<input checked="" type="checkbox"/> Existing <input type="checkbox"/> Add <input type="checkbox"/> Delete	CURRIE "E" - Garden City, S. (Wolfcamp)	4205

**ATTACH ADDITIONAL PAGES AS NEEDED.**     No additional pages     Additional pages 1 (# of additional pages)

**CERTIFICATE:** I declare under penalties in Sec. 91.143, Texas Natural Resources Code, that I am authorized to file this application, that this application was prepared by me or under my supervision and direction, and that the data and facts stated therein are true, correct, and complete to the best of my knowledge. I certify that all requests for related required approvals from other affected State Agencies have been submitted and that I understand that any authorization granted by Commission approval of this application is contingent upon the approvals from other affected State Agencies being obtained.

Signature: Vickie L. Gotcher      Title: REGULATORY ANALYST      Date: 11/21/2013

Operator E-mail Address: vgotcher@concho.com      Operator Phone No. (432)818-2249

(Optional - If provided, e-mail address will become part of this public record.)

**RRC USE ONLY**

Commingling Permit No. 6768    Approval date: 11/25/13    Approved by: [Signature]



## Currie E Sec. 42 Tank Battery

Currie 'E' #4115  
Currie 'E' #4203  
Currie 'E' #4204  
Currie 'E' #4205  
Currie 'E' #4207  
Currie 'E' State #4102  
Currie 'E' State #4104

### Process Flow Narrative

Oil, gas and water from individual wells will be produced to the Header. From there, individual well streams can be diverted to either the 2-phase tester or to the production heater treater.

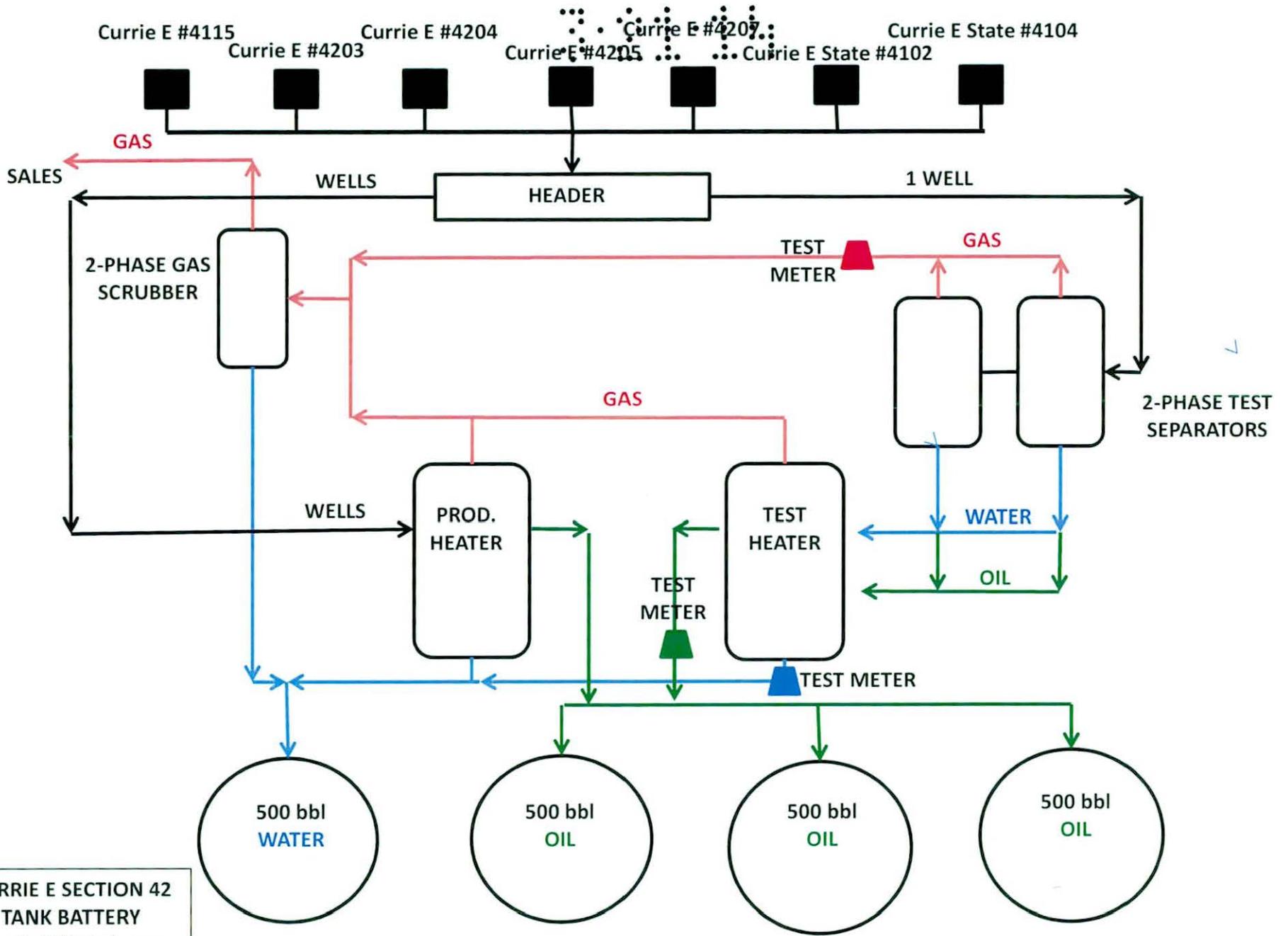


For test purposes, after separation in the 2-phase test separator, gas will be metered through the gas meter, flow through the 2-phase gas scrubber and sent to the gas sales meter for measurement and sales. Oil and water will then go to the test heater for separation. After separation, any remaining gas will flow through to the 2-phase gas scrubber and then the gas sales meter, the oil will be metered and sent to the oil tanks and the water will be metered and sent to the water tanks.

For wells not in test, they will flow to the Production Heater where the well stream is separated. Gas will be sent to the 2-phase Gas Scrubber and then on to the gas sales meter for measurement and sales. The oil is then sent to the oil tanks and the water is sent to the water tanks.

### Allocation Method

Oil, gas and water production will be allocated daily to individual wells based on well tests. Individual well test values for oil, gas and water, along with daily oil and water tank straps and gas sales meter volumes will be entered into our in-house production management software. The software will then allocate the total battery oil, gas and water volumes back to the well level based on the last well test from each well. Monthly oil and gas sales will be allocated based on the sum of daily allocated well production.



CURRIE E SECTION 42  
 TANK BATTERY  
 Currie E State Lease  
 Currie E Lease  
 RRC Comm. #6768





41

File No. MF12153

GLASSCOCK County  
CURRIE SEC 41 R2  
REQUEST TO COMMINGLE

Date Filed: 8/24/2016

George P. Bush, Commissioner

By M. J. SCOTT

2016

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

VICKIE L GOTCHER  
 COG OPERATING LLC  
 ONE CONCHO CENTER  
 600 W. ILLINOIS AVE  
 MIDLAND TX 79701

2. Article Number

(Transfer from service label)

7011150 0001 2416 2093

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

X Jam Johnson

 Agent Addressee

B. Received by (Printed Name)

C. Date of Delivery

04/02/14

D. Is delivery address different from item 1?  YesIf YES, enter delivery address below:  No

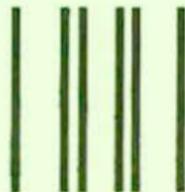
3. Service Type

 Certified Mail Express Mail Registered Return Receipt for Merchandise Insured Mail C.O.D.

4. Restricted Delivery? (Extra Fee)

 Yes

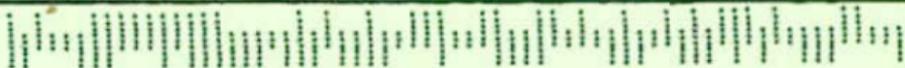
UNITED STATES POSTAL SERVICE



First-Class Mail  
Postage & Fees Paid  
USPS  
Permit No. G-10

- Sender: Please print your name, address, and ZIP+4 in this box •

MATTHEW SCOTT  
TEXAS GENERAL LAND OFFICE  
PO BOX 12873  
AUSTIN TX 78711-2873



TEXAS



GENERAL LAND OFFICE

JERRY PATTERSON, COMMISSIONER

May 22, 2014

Via Certified Mail

Receipt No. 7011 1150 0001 2416 2093

Ms. Vickie L. Gotcher  
COG Operating LLC  
One Concho Center  
600 W Illinois Avenue  
Midland, Texas 79701

RE: Your Application for Authority to Surface Commingle Oil and Gas Production from HROW lease MF112153 (GLO Unit Pending) at the Currie 'A' Section 4 Tank Battery, RRC Form P-17 Permit 08-Pending, Glasscock County, Texas.

Dear Ms. Gotcher

Please reference your letter dated May 6, 2014 requesting approval of the proposed commingling of the subject HROW lease into common storage.

Please be advised that the subject application is approved **subject to the following conditions.**

1. All oil production royalties shall be due based on the proportionate share of the total oil production allocated to each RRC lease determined by the performance of monthly well tests.
2. All gas production royalties shall be due based on the proportionate share of the total gas production volumes (adjusted to MMBTUs) allocated to each RRC lease determined by the performance of monthly well tests. The gas BTU content shall be obtained by gas sample chromatographic analysis or other industry-accepted practices.
3. Retain, for lease audit purposes, all meter and test records, volume statements/reports, oil and gas analyses reports, and shrinkage/flash gas calculation records for all state and private lease or unit wells in the scope of the commingle permit for a period of at least seven (7) years after creation of each report or record.
4. Any changes to the flow process, metering scheme, or the addition of any wells that are not currently processed at the commingle facility shall require the Lessee to obtain permission from the GLO prior to making said changes
5. Please provide me a copy of the RRC Form P-17 permit within ten days of its approval by RRC staff.

Stephen F. Austin Building • 1700 North Congress Avenue • Austin, Texas 78701-1495

Post Office Box 12873 • Austin, Texas 78711-2873

512-463-5001 • 800-998-4GLO

[www.glo.state.tx.us](http://www.glo.state.tx.us)

Ms. Vickie L. Gotcher  
COG Operating LLC  
May 22, 2014  
Page 2 of 2

If you have questions, please contact me at (512) 475-2230, or by FAX at (512) 475-1543. My e-mail address is [matthew.scott@glo.texas.gov](mailto:matthew.scott@glo.texas.gov).

Sincerely,

A handwritten signature in black ink that reads "Matthew T. Scott". The signature is written in a cursive style with a large, stylized initial 'M'.

Matthew T. Scott, P.E.  
Petroleum Engineer  
Energy Resources/Mineral Leasing

cc: Robert Hatter, Director Mineral Leasing

TEXAS



GENERAL LAND OFFICE

JERRY PATTERSON, COMMISSIONER

May 22, 2014

Via Certified Mail

Receipt No. 7011 1150 0001 2416 2093

Ms. Vickie L. Gotcher  
COG Operating LLC  
One Concho Center  
600 W Illinois Avenue  
Midland, Texas 79701

RE: Your Application for Authority to Surface Commingle Oil and Gas Production from HROW lease MF112153 (GLO Unit Pending) at the Currie 'E' Section 31 Tank Battery, RRC Form P-17 Permit 08-6282, Glasscock County, Texas.

Dear Ms. Gotcher

Please reference your letter dated May 6, 2014 requesting approval of the proposed commingling of the subject HROW lease into common storage by amendment of permit 08-6282.

Please be advised that the subject application is approved **subject to the following conditions.**

1. All oil production royalties shall be due based on the proportionate share of the total oil production allocated to each RRC lease determined by the performance of monthly well tests.
2. All gas production royalties shall be due based on the proportionate share of the total gas production volumes (adjusted to MMBTUs) allocated to each RRC lease determined by the performance of monthly well tests. The gas BTU content shall be obtained by gas sample chromatographic analysis or other industry-accepted practices.
3. Retain, for lease audit purposes, all meter and test records, volume statements/reports, oil and gas analyses reports, and shrinkage/flash gas calculation records for all state and private lease or unit wells in the scope of the commingle permit for a period of at least seven (7) years after creation of each report or record.
4. Any changes to the flow process, metering scheme, or the addition of any wells that are not currently processed at the commingle facility shall require the Lessee to obtain permission from the GLO prior to making said changes
5. Please provide me a copy of the RRC Form P-17 permit within ten days of its approval by RRC staff.

Stephen F. Austin Building • 1700 North Congress Avenue • Austin, Texas 78701-1495

Post Office Box 12873 • Austin, Texas 78711-2873

512-463-5001 • 800-998-4GLO

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Ms. Vickie L. Gotcher  
COG Operating LLC  
May 22, 2014  
Page 2 of 2

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Sincerely,

A handwritten signature in black ink that reads "Matthew T. Scott". The signature is written in a cursive style with a large, stylized 'M' and 'S'.

Matthew T. Scott, P.E.  
Petroleum Engineer  
Energy Resources/Mineral Leasing

cc: Robert Hatter, Director Mineral Leasing

TEXAS



GENERAL LAND OFFICE

JERRY PATTERSON, COMMISSIONER

May 22, 2014

Via Certified Mail

Receipt No. 7011 1150 0001 2416 2093

Ms. Vickie L. Gotcher  
COG Operating LLC  
One Concho Center  
600 W Illinois Avenue  
Midland, Texas 79701

RE: Your Application for Authority to Surface Commingle Oil and Gas Production from HROW lease MF112153 (GLO Unit Pending) at the Currie 'E' Section 42 Tank Battery, RRC Form P-17 Permit 08-6768, Glasscock County, Texas.

Dear Ms. Gotcher

Please reference your letter dated May 6, 2014 requesting approval of the proposed commingling of the subject HROW lease into common storage by amendment of permit 08-6768.

Please be advised that the subject application is approved **subject to the following conditions.**

1. All oil production royalties shall be due based on the proportionate share of the total oil production allocated to each RRC lease determined by the performance of monthly well tests.
2. All gas production royalties shall be due based on the proportionate share of the total gas production volumes (adjusted to MMBTUs) allocated to each RRC lease determined by the performance of monthly well tests. The gas BTU content shall be obtained by gas sample chromatographic analysis or other industry-accepted practices.
3. Retain, for lease audit purposes, all meter and test records, volume statements/reports, oil and gas analyses reports, and shrinkage/flash gas calculation records for all state and private lease or unit wells in the scope of the commingle permit for a period of at least seven (7) years after creation of each report or record.
4. Any changes to the flow process, metering scheme, or the addition of any wells that are not currently processed at the commingle facility shall require the Lessee to obtain permission from the GLO prior to making said changes
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Stephen F. Austin Building • 1700 North Congress Avenue • Austin, Texas 78701-1495

Post Office Box 12873 • Austin, Texas 78711-2873

512-463-5001 • 800-998-4GLO

[www.glo.state.tx.us](http://www.glo.state.tx.us)

Ms. Vickie L. Gotcher  
COG Operating LLC  
May 22, 2014  
Page 2 of 2

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Sincerely,

A handwritten signature in black ink that reads "Matthew T. Scott". The signature is written in a cursive style with a stylized "S" at the end.

Matthew T. Scott, P.E.  
Petroleum Engineer  
Energy Resources/Mineral Leasing

cc: Robert Hatter, Director Mineral Leasing

TEXAS



GENERAL LAND OFFICE

JERRY PATTERSON, COMMISSIONER

May 22, 2014

Via Certified Mail

Receipt No. 7011 1150 0001 2416 2093

Ms. Vickie L. Gotcher  
COG Operating LLC  
One Concho Center  
600 W Illinois Avenue  
Midland, Texas 79701

RE: Your Application for Authority to Surface Commingle Oil and Gas Production from HROW lease MF112153 (GLO Unit Pending) at the Currie 'A' North Section 40 Tank Battery, RRC Form P-17 Permit 08-6835, Glasscock County, Texas.

Dear Ms. Gotcher

Please reference your letter dated May 6, 2014 requesting approval of the proposed commingling of the subject HROW lease into common storage by amendment of permit 08-6835.

Please be advised that the subject application is approved **subject to the following conditions.**

1. All oil production royalties shall be due based on the proportionate share of the total oil production allocated to each RRC lease determined by the performance of monthly well tests.
2. All gas production royalties shall be due based on the proportionate share of the total gas production volumes (adjusted to MMBTUs) allocated to each RRC lease determined by the performance of monthly well tests. The gas BTU content shall be obtained by gas sample chromatographic analysis or other industry-accepted practices.
3. Retain, for lease audit purposes, all meter and test records, volume statements/reports, oil and gas analyses reports, and shrinkage/flash gas calculation records for all state and private lease or unit wells in the scope of the commingle permit for a period of at least seven (7) years after creation of each report or record.
4. Any changes to the flow process, metering scheme, or the addition of any wells that are not currently processed at the commingle facility shall require the Lessee to obtain permission from the GLO prior to making said changes
5. Please provide me a copy of the RRC Form P-17 permit within ten days of its approval by RRC staff.

Stephen F. Austin Building • 1700 North Congress Avenue • Austin, Texas 78701-1495

Post Office Box 12873 • Austin, Texas 78711-2873

512-463-5001 • 800-998-4GLO

[www.glo.state.tx.us](http://www.glo.state.tx.us)

Ms. Vickie L. Gotcher  
COG Operating LLC  
May 22, 2014  
Page 2 of 2

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Sincerely,

A handwritten signature in black ink that reads "Matthew T. Scott". The signature is written in a cursive style with a large initial 'M' and a stylized 'S'.

Matthew T. Scott, P.E.  
Petroleum Engineer  
Energy Resources/Mineral Leasing

cc: Robert Hatter, Director Mineral Leasing



May 22, 2014

Via Certified Mail

Receipt No. 7011 1150 0001 2416 2093

Ms. Vickie L. Gotcher  
COG Operating LLC  
One Concho Center  
600 W Illinois Avenue  
Midland, Texas 79701

RE: Your Application for Authority to Surface Commingle Oil and Gas Production from HROW lease MF112153 (GLO Unit Pending) at the Currie 'E' North Section 32 Tank Battery, RRC Form P-17 Permit 08-6855, Glasscock County, Texas.

Dear Ms. Gotcher

Please reference your letter dated May 6, 2014 requesting approval of the proposed commingling of the subject HROW lease into common storage by amendment of permit 08-6855.

Please be advised that the subject application is approved **subject to the following conditions.**

1. All oil production royalties shall be due based on the proportionate share of the total oil production allocated to each RRC lease determined by the performance of monthly well tests.
2. All gas production royalties shall be due based on the proportionate share of the total gas production volumes (adjusted to MMBTUs) allocated to each RRC lease determined by the performance of monthly well tests. The gas BTU content shall be obtained by gas sample chromatographic analysis or other industry-accepted practices.
3. Retain, for lease audit purposes, all meter and test records, volume statements/reports, oil and gas analyses reports, and shrinkage/flash gas calculation records for all state and private lease or unit wells in the scope of the commingle permit for a period of at least seven (7) years after creation of each report or record.
4. Any changes to the flow process, metering scheme, or the addition of any wells that are not currently processed at the commingle facility shall require the Lessee to obtain permission from the GLO prior to making said changes
5. Please provide me a copy of the RRC Form P-17 permit within ten days of its approval by RRC staff.

Stephen F. Austin Building • 1700 North Congress Avenue • Austin, Texas 78701-1495

Post Office Box 12873 • Austin, Texas 78711-2873

512-463-5001 • 800-998-4GLO

[www.glo.state.tx.us](http://www.glo.state.tx.us)

Ms. Vickie L. Gotcher  
COG Operating LLC  
May 22, 2014  
Page 2 of 2

If you have questions, please contact me at (512) 475-2230, or by FAX at (512) 475-1543. My e-mail address is [matthew.scott@glo.texas.gov](mailto:matthew.scott@glo.texas.gov).

Sincerely,

A handwritten signature in black ink that reads "Matthew T. Scott". The signature is written in a cursive style with a large initial "M" and a stylized "S".

Matthew T. Scott, P.E.  
Petroleum Engineer  
Energy Resources/Mineral Leasing

cc: Robert Hatter, Director Mineral Leasing

File No. MF112153

GLASSCOCK County  
CURRIE 'E' AND 'A' MULTIPLE  
LETTERS - AGREE TO COMMINGLE

Date Filed: 8/24/2016

George P. Bush, Commissioner

By M T SCOTT



VICKIE L. GOTCHER  
Regulatory Analyst

July 21, 2014

Matthew T Scott  
Texas General Land Office  
P O Box 12873  
Austin, TX 78711-2967

Re: Approved P-17, RRC Commingle Requests

Dear Matthew:

I've enclosed three copies of approved P-17's for the following tank batteries:

Currie E Sec 42 Tank Battery

Currie E Sec 31 Tank Battery

Currie E North Sec 32 Tank Battery

Currie A North Sec 40 Tank Battery

Please contact me at 432-818-2249 or by email: [vgotcher@concho.com](mailto:vgotcher@concho.com) if you have any questions.

Sincerely,

A handwritten signature in blue ink that reads "Vickie L. Gotcher".

Vickie L. Gotcher



<input type="checkbox"/> New <input checked="" type="checkbox"/> Amended Existing Permit No. <u>6835</u> Effective Month/Year of Requested Exception: <u>04 / 2014</u>	<b>RAILROAD COMMISSION OF TEXAS</b> <b>OIL AND GAS DIVISION</b> <b>APPLICATION FOR EXCEPTION TO STATEWIDE RULES (SWR) 26 AND/OR 27</b> <u>CURRIE A NORTH SEC 40 TB 3091497</u>	DBC0308	<b>FORM P-17</b> Eff 01/2008 \$150 FILING FEE District <u>08</u> County <u>GLASSCOCK</u>
---	---	---------	--

**SECTION 1. OPERATOR INFORMATION (See instructions under "Who Files")**

Operator Name (as shown on P-5): COG OPERATING LLC Operator P-5 No. 166150

Operator Address: 600 W ILLINOIS AVE City, State, Zip: MIDLAND TX 79701

**SECTION 2. GATHERER (of oil or condensate) INFORMATION (not required if 3b is checked)**

Gatherer Name (as shown on P-5): PLAINS MARKETING, LP Gatherer P-5 No. 667883

Gatherer Address: P O BOX 4648 City, State, Zip: HOUSTON TX 77210

Gatherer E-mail Address: baenkins@paalp.com  
 (Optional - If provided, e-mail address will become part of this public record.)

**SECTION 3. APPLICATION APPLIES TO (CHECK ALL THAT APPLY):**  OIL  CASINGHEAD GAS  GAS WELL GAS  CONDENSATE

a.  Gas well full well stream into common separation and storage facility with liquids reported on Form PR.  
 b.  Gas well full well stream into a gasoline plant/common separation and storage facility with liquids reported on Form R-3 Serial # \_\_\_\_\_ (If full well stream is checked, the results of periodic tests to determine the number of stock tank barrels of liquid hydrocarbons recovered per 1,000 standard cubic feet of gas must be reported on Form G-10 in accordance with SWR 55. Attach an explanation of any exceptions to SWR 55.)  
 c.  Condensate and low-pressure Gas Well Gas are commingled into low-pressure separation and storage facilities.  
 d.  This request is for off lease:  storage  separation  metering.  
 e.  This exception is for common storage.  
 f.  This exception is for common separation.  
 g.  This exception is for casinghead gas metering by:  deduct metering  allocation by well test  other \_\_\_\_\_  
 h.  This exception is for gas well gas metering by:  deduct metering  allocation by well test  other \_\_\_\_\_  
 i.  This request is an exception to measure liquid with a: (check one below)  
 a Turbine Meter or  a Coriolis Meter (an additional \$150,00 and a letter of explanation is required for each exception.)

RECEIVED  
MAY 12 2014  
AUSTIN TX

**SECTION 4. NOTICE REQUIREMENTS AND ALLOCATION METHOD. (CHECK ALL THAT APPLY)** The following questions determine if 21-day notice is required and applies to all wells proposed for commingling:

a.  The production is measured separately from all leases or individual wells before commingling. (Notice not required; Skip to Section 5)  
 b.  The royalty interests and working interests are the same with respect to identity and percentage. (Notice not required)  
 c.  The royalty interests and working interests are not the same with respect to identity and percentage. (Notice required)  
 If b. or c. checked, production will be allocated by:  W-10 (oil)  W-2 retest (oil)  PD Meter (oil & condensate)  G-10 (gas)  
 d.  The wells produce from multiple reservoirs. (Notice required unless 4e. or 4f. apply; see instructions for additional requirements)  
 e.  The wells produce from multiple reservoirs and have SWR10 exceptions. (Notice not required)  
 f.  The wells produce from multiple reservoirs and are measured separately from each reservoir. (Notice not required)  
 g.  Any one of the wells proposed for commingling produces from a Commission-designated reservoir for which special field rules have been adopted. (Notice required)

RECEIVED  
MAY 07 2014  
Regulatory-TX Asset Team

**SECTION 5.**  Wells proposed for commingling have an operator's name other than the applicant listed in SECTION 1. (See instructions)

**SECTION 6.**  For oil production, the production from all oil wells on each oil lease is to be commingled. (See instructions)

**SECTION 7. IDENTIFY LEASES AS SHOWN ON COMMISSION RECORDS (attach additional pages as needed)**

DISTRICT	RRC IDENTIFIER	ACTION	LEASE AND FIELD NAME	WELL NO.
08	42865	<input checked="" type="checkbox"/> Existing <input type="checkbox"/> Add <input type="checkbox"/> Delete	Currie "A" North Garden City, S. (Wolfcamp)	ALL
08	763000	<input checked="" type="checkbox"/> Existing <input type="checkbox"/> Add <input type="checkbox"/> Delete	Currie "A" State Garden City, S. (Wolfcamp)	4003
08	764119	<input checked="" type="checkbox"/> Existing <input type="checkbox"/> Add <input type="checkbox"/> Delete	Currie "A" State Garden City, S. (Wolfcamp)	4505
08	766905	<input checked="" type="checkbox"/> Existing <input type="checkbox"/> Add <input type="checkbox"/> Delete	Currie "A" State Garden City, S. (Wolfcamp)	4510

ATTACH ADDITIONAL PAGES AS NEEDED.  No additional pages  Additional pages \_\_\_\_\_ (# of additional pages)

**CERTIFICATE:** I declare under penalties in Sec. 91.143, Texas Natural Resources Code, that I am authorized to file this application, that this application was prepared by me or under my supervision and direction, and that the data and facts stated therein are true, correct, and complete to be the best of my knowledge. I certify that all requests for related required approvals from other affected State Agencies have been submitted and that I understand that any authorization granted by Commission approval of this application is contingent upon the approvals from other affected State Agencies being obtained.

Signature: Michael Gotcher Title: REGULATORY ANALYST Date: 04/02/2014  
 Operator E-mail Address: vgotcher@cencho.com Operator Phone No. (432)818-2249  
 (Optional - If provided, e-mail address will become part of this public record.)

**RRC USE ONLY**

Commingling Permit No. 6835 Approval date: 5/28/14 Approved by: ACC Social & Wellb...

<input type="checkbox"/> New	RAILROAD COMMISSION OF TEXAS OIL AND GAS DIVISION	DBC0308	<b>FORM P-17</b> Eff 01/2008 \$150 FILING FEE
<input checked="" type="checkbox"/> Amended Existing Permit No. <u>6768</u>			APPLICATION FOR EXCEPTION TO STATEWIDE RULES (SWR) 26 AND/OR 27
Effective Month/Year of Requested Exception: <u>07 / 2013</u>	<u>CURRIE E. SEC 42 TB</u> <u>3091497</u>		County <u>GLASSCOCK</u>

**SECTION 1. OPERATOR INFORMATION (See instructions under "Who Files")**

Operator Name (as shown on P-5): COG OPERATING LLC Operator P-5 No. 166150

Operator Address: 600 W ILLINOIS AVE City, State, Zip: MIDLAND TX 79701

**SECTION 2. GATHERER (of oil or condensate) INFORMATION (not required if 3b is checked)**

Gatherer Name (as shown on P-5): PLAINS MARKETING LP Gatherer P-5 No. 667883

Gatherer Address: P O BOX 4648 City, State, Zip: HOUSTON TX 77210

Gatherer E-mail Address: bajenkins@paalp.com  
(Optional - If provided, e-mail address will become part of this public record.)

**SECTION 3. APPLICATION APPLIES TO (CHECK ALL THAT APPLY):**  OIL  CASINGHEAD GAS  GAS WELL GAS  CONDENSATE

a.  Gas well full well stream into common separation and storage facility with liquids reported on Form PR.

b.  Gas well full well stream into a gasoline plant/common separation and storage facility with liquids reported on Form R-3 Serial # \_\_\_\_\_ (If full well stream is checked, the results of periodic tests to determine the number of stock tank barrels of liquid hydrocarbons recovered per 1,000 standard cubic feet of gas must be reported on Form G-10 in accordance with SWR 55. Attach an explanation of any exceptions to SWR 55.)

c.  Condensate and low-pressure Gas Well Gas are commingled into low-pressure separation and storage facilities.

d.  This request is for off lease:  storage  separation  metering.

e.  This exception is for common storage.

f.  This exception is for common separation.

g.  This exception is for casinghead gas metering by:  deduct metering  allocation by well test  other \_\_\_\_\_

h.  This exception is for gas well gas metering by:  deduct metering  allocation by well test  other \_\_\_\_\_

i.  This request is an exception to measure liquid with a: (check one below)  
 a Turbine Meter or  a Coriolis Meter (an additional \$150.00 and a letter of explanation is required for each exception.)

**SECTION 4. NOTICE REQUIREMENTS AND ALLOCATION METHOD. (CHECK ALL THAT APPLY)** The following questions determine if 21-day notice is required and applies to all wells proposed for commingling:

a.  The production is measured separately from all leases or individual wells before commingling. (Notice not required; Skip to Section 5)

b.  The royalty interests and working interests are the same with respect to identity and percentage. (Notice not required)

c.  The royalty interests and working interests are not the same with respect to identity and percentage. (Notice required)  
If b. or c. checked, production will be allocated by:  W-10 (oil)  W-2 retest (oil)  PD Meter (oil & condensate)  G-10 (gas)

d.  The wells produce from multiple reservoirs. (Notice required unless 4e. or 4f. apply; see instructions for additional requirements)

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f.  The wells produce from multiple reservoirs and are measured separately from each reservoir. (Notice not required)

g.  Any one of the wells proposed for commingling produces from a Commission-designated reservoir for which special field rules have been adopted. (Notice required)

**SECTION 5.**  Wells proposed for commingling have an operator's name other than the applicant listed in SECTION 1. (See instructions)

**SECTION 6.**  For oil production, the production from all oil wells on each oil lease is to be commingled. (See instructions)

**SECTION 7. IDENTIFY LEASES AS SHOWN ON COMMISSION RECORDS (attach additional pages as needed)**

DISTRICT	RRC IDENTIFIER	ACTION	LEASE AND FIELD NAME	WELL NO.
08	38162	<input checked="" type="checkbox"/> Existing <input type="checkbox"/> Add <input type="checkbox"/> Delete	Currie "E" - Garden City, S. (Wolfcamp)	4115
08	38162	<input checked="" type="checkbox"/> Existing <input type="checkbox"/> Add <input type="checkbox"/> Delete	Currie "E" - Garden City, S. (Wolfcamp)	4203
08	38162	<input checked="" type="checkbox"/> Existing <input type="checkbox"/> Add <input type="checkbox"/> Delete	Currie "E" - Garden City, S. (Wolfcamp)	4204
08	38162	<input checked="" type="checkbox"/> Existing <input type="checkbox"/> Add <input type="checkbox"/> Delete	Currie "E" - Garden City, S. (Wolfcamp)	4205

**ATTACH ADDITIONAL PAGES AS NEEDED.**  No additional pages  Additional pages 1 (# of additional pages)

**CERTIFICATE:** I declare under penalties in Sec. 91.143, Texas Natural Resources Code, that I am authorized to file this application, that this application was prepared by me or under my supervision and direction, and that the data and facts stated therein are true, correct, and complete to be the best of my knowledge. I certify that all requests for related required approvals from other affected State Agencies have been submitted and that I understand that any authorization granted by Commission approval of this application is contingent upon the approvals from other affected State Agencies being obtained.

Signature Vickie K. Gotcher Title REGULATORY ANALYST Date 04/02/2014

Operator E-mail Address: vgotcher@concho.com Operator Phone No. (432)818-2249

(Optional - If provided, e-mail address will become part of this public record.)

**RRC USE ONLY**

Commingling Permit No. 6768 Approval date: 5/28/14 Approved by: [Signature]

Changed in Austin

RECEIVED  
REGULATORY ANALYST TEAM  
JUN 10 2 2014



<input type="checkbox"/> New	RAILROAD COMMISSION OF TEXAS OIL AND GAS DIVISION	DBC0308	<b>FORM P-17</b> EFF 01/2008 \$150 FILING FEE
<input checked="" type="checkbox"/> Amended Existing Permtf No. <u>6282</u>	APPLICATION FOR EXCEPTION TO STATEWIDE RULES (SWR) 26 AND/OR 27		District <u>08</u>
Effective Month/Year of Requested Exception: <u>01 / 2014</u>	<u>Currie E Sec 31 OTB</u> <u>3091497</u>		County <u>GLASSCOCK</u>

**SECTION 1. OPERATOR INFORMATION (See instructions under "Who Files")**

Operator Name (as shown on P-5): COG OPERATING LLC      Operator P-5 No. 166150

Operator Address: 600 W ILLINOIS AVE      City, State, Zip: MIDLAND TX 79701

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Gatherer Name (as shown on P-5): PLAINS MARKETING, LP      Gatherer P-5 No. 667883

Gatherer Address: PO BOX 4647      City, State, Zip: HOUSTON TX 77210

Gatherer E-mail Address: bajenkins@paalp.com  
(Optional - If provided, e-mail address will become part of this public record.)

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h.  This exception is for gas well gas metering by:    deduct metering    allocation by well test    other \_\_\_\_\_

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DISTRICT	RRC IDENTIFIER	ACTION	LEASE AND FIELD NAME	WELL NO.
08	38162	<input checked="" type="checkbox"/> Existing <input type="checkbox"/> Add <input type="checkbox"/> Delete	Currie 'E'   Garden City, S. (Wolfcamp)	3107
08	41832	<input checked="" type="checkbox"/> Existing <input type="checkbox"/> Add <input type="checkbox"/> Delete	Currie 'E' State   Garden City, S. (Wolfcamp)	3102
08	41832	<input checked="" type="checkbox"/> Existing <input type="checkbox"/> Add <input type="checkbox"/> Delete	Currie 'E' State   Garden City, S. (Wolfcamp)	3113
08	41832	<input checked="" type="checkbox"/> Existing <input type="checkbox"/> Add <input type="checkbox"/> Delete	Currie 'E' State   Garden City, S. (Wolfcamp)	3108

**ATTACH ADDITIONAL PAGES AS NEEDED.**    No additional pages    Additional pages 1 (# of additional pages)

**CERTIFICATE:** I declare under penalties in Sec. 91.143, Texas Natural Resources Code, that I am authorized to file this application, that this application was prepared by me or under my supervision and direction, and that the data and facts stated therein are true, correct, and complete to the best of my knowledge. I certify that all requests for related required approvals from other affected State Agencies have been submitted and that I understand that any authorization granted by Commission approval of this application is contingent upon the approvals from other affected State Agencies being obtained.

Signature: Vickie K. Gotcher      Title: Regulatory Analyst      Date: 04/14/2014

Operator E-mail Address: vgotcher@concho.com      Operator Phone No. (432)818-2249  
(Optional - If provided, e-mail address will become part of this public record.)

**RRC USE ONLY**

Commingling Permit No. 2014      Approval date: 5/28/14      Approved by: [Signature]



New  
 Amended  
 Existing Permit No. 6855  
 Effective Month/Year of Requested Exception: 08 / 2013

**RAILROAD COMMISSION OF TEXAS**  
**OIL AND GAS DIVISION**  
**APPLICATION FOR EXCEPTION TO STATEWIDE RULES (SWR) 26 AND/OR 27**

DBC0308  
**FORM P-17**  
 Eff 01/2008  
 \$150 FILING FEE  
 District 08  
 County GLASSCOCK

CURRIE E NORTH SEC 32 TA      309 1497

**SECTION 1. OPERATOR INFORMATION (See Instructions under "Who Files")**

Operator Name (as shown on P-5): COG OPERATING LLC      Operator P-5 No. 166150

Operator Address: 600 W ILLINOIS AVE      City, State, Zip: MIDLAND TX 79701

**SECTION 2. GATHERER (of oil or condensate) INFORMATION (not required if 3b is checked)**

Gatherer Name (as shown on P-5): PLAINS MARKETING, LP      Gatherer P-5 No. 667883

Gatherer Address: P O BOX 4648      City, State, Zip: HOUSTON TX 77210

Gatherer E-mail Address: bajenkins@paalp.com  
 (Optional - If provided, e-mail address will become part of this public record.)

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 d.  This request is for off lease:    storage    separation    metering.  
 e.  This exception is for common storage.  
 f.  This exception is for common separation.  
 g.  This exception is for casinghead gas metering by:    deduct metering    allocation by well test    other \_\_\_\_\_  
 h.  This exception is for gas well gas metering by:    deduct metering    allocation by well test    other \_\_\_\_\_  
 i.  This request is an exception to measure liquid with a: (check one below)  
      a Turbine Meter or    a Coriolis Meter (an additional \$150.00 and a letter of explanation is required for each exception.)

**RECEIVED**  
**REGULATORY ASSETS**  
**MAY 12 2014**  
**Regulatory-TX Asset Team**

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**SECTION 7. IDENTIFY LEASES AS SHOWN ON COMMISSION RECORDS (attach additional pages as needed)**

DISTRICT	RRC IDENTIFIER	ACTION	LEASE AND FIELD NAME	WELL NO.
08	762905	<input checked="" type="checkbox"/> Existing <input type="checkbox"/> Add <input type="checkbox"/> Delete	Currie 'E' North Garden City, S. (Wolfcamp)	3208
08	41832	<input checked="" type="checkbox"/> Existing <input type="checkbox"/> Add <input type="checkbox"/> Delete	Currie 'E' State Garden City, S. (Wolfcamp)	4101
08	41832	<input type="checkbox"/> Existing <input checked="" type="checkbox"/> Add <input type="checkbox"/> Delete	Currie 'E' State Garden City, S. (Wolfcamp)	3207

**ATTACH ADDITIONAL PAGES AS NEEDED.**  No additional pages    Additional pages \_\_\_\_\_ (# of additional pages)

**CERTIFICATE:** I declare under penalties in Sec. 91.143, Texas Natural Resources Code, that I am authorized to file this application, that this application was prepared by me or under my supervision and direction, and that the data and facts stated therein are true, correct, and complete to be the best of my knowledge. I certify that all requests for related required approvals from other affected State Agencies have been submitted and that I understand that any authorization granted by Commission approval of this application is contingent upon the approvals from other affected State Agencies being obtained.

Signature: Walter G. Goltcher      Title: REGULATORY ANALYST      Date: 04/11/2014  
 Operator E-mail Address: wgoltcher@concho.com      Operator Phone No. (432)818-2249  
 (Optional - If provided, e-mail address will become part of this public record.)

RRC USE ONLY

Commingling Permit No. 6855      Approval date: 5/28/14      Approved by: [Signature]

430000

File No. MF112153

GLASSCOCK County

CURRIE 'E' AND 'A'

RRC EDEM P-17 JULY 2014

Date Filed: 8/24/2016

George P. Bush, Commissioner

By M. T. SCOTT



VICKIE L. GOTCHER  
Regulatory Analyst

February 18, 2015

Matthew T. Scott  
Texas General Land Office  
P. O. Box 12873  
Austin, TX 78711-2873

Re: Permission to Surface Commingle Production from HROW MF112153 (Currie "E" State Lease) with the Currie "E" North Lease a Non-GLO Lease

Dear Mr. Scott:

COG Operating LLC is requesting permission to Surface Commingle the HROW MF112153 (Currie "E" State Lease) with the Currie "E" Lease. Please find attached the data required for the surface commingle permit application.

Currie "E" State #3007 – RRC# 41832

Currie "E" North #3005 – RRC#44558

If you have any questions, please contact me at (432) 818-2249; e-mail at [vgotcher@concho.com](mailto:vgotcher@concho.com) or Terry Burkes at (432) 818-2204; e-mail [tburkes@concho.com](mailto:tburkes@concho.com).

Sincerely,

A handwritten signature in blue ink that reads "Vickie L. Gotcher".

Vickie L. Gotcher  
COG Operating LLC

vg/enclosures

<input checked="" type="checkbox"/> New <input type="checkbox"/> Amended Existing Permit No. _____  Effective Month/Year of Requested Exception: <u>07</u> / <u>2014</u>	RAILROAD COMMISSION OF TEXAS OIL AND GAS DIVISION  APPLICATION FOR EXCEPTION TO STATEWIDE RULES (SWR) 26 AND/OR 27  <i>7032</i> <i>CURRIE E NORTH SEC. 30</i>	DBC0308  FORM P-17 Eff 01/2008 \$150 FILING FEE
	District <u>08</u> County <u>GLASSCOCK</u>	

**SECTION 1. OPERATOR INFORMATION** (See instructions under "Who Files")

Operator Name (as shown on P-5): COG OPERATING LLC Operator P-5 No 166150

Operator Address: 600 W ILLINOIS AVE City, State, Zip: MIDLAND TX 79701

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Gatherer Name (as shown on P-5): PLAINS MARKETING, L P Gatherer P-5 No 667883

Gatherer Address: P O BOX 4648 City, State, Zip: HOUSTON TX 77210-4648

Gatherer E-mail Address: bajenkins@paalp.com  
 (Optional - If provided, e-mail address will become part of this public record.)

**SECTION 3. APPLICATION APPLIES TO** (CHECK ALL THAT APPLY):  OIL  CASINGHEAD GAS  GAS WELL GAS  CONDENSATE

a  Gas well full well stream into common separation and storage facility with liquids reported on Form PR

b  Gas well full well stream into a gasoline plant/common separation and storage facility with liquids reported on Form R-3 Serial # \_\_\_\_\_ (If full well stream is checked, the results of periodic tests to determine the number of stock tank barrels of liquid hydrocarbons recovered per 1,000 standard cubic feet of gas must be reported on Form G-10 in accordance with SWR 55. Attach an explanation of any exceptions to SWR 55)

c  Condensate and low-pressure Gas Well Gas are commingled into low-pressure separation and storage facilities

d  This request is for off lease  storage  separation  metering.

e  This exception is for common storage.

f  This exception is for common separation

g.  This exception is for casinghead gas metering by:  deduct metering  allocation by well test  other \_\_\_\_\_

h.  This exception is for gas well gas metering by:  deduct metering  allocation by well test  other \_\_\_\_\_

i.  This request is an exception to measure liquid with a: (check one below)  
 a Turbine Meter or  a Coriolis Meter (an additional \$150.00 and a letter of explanation is required for each exception.)

**SECTION 4. NOTICE REQUIREMENTS AND ALLOCATION METHOD.** (CHECK ALL THAT APPLY) The following questions determine if 21-day notice is required and applies to all wells proposed for commingling

a  The production is measured separately from all leases or individual wells before commingling (Notice not required; Skip to Section 5)

b  The royalty interests and working interests are the same with respect to identity and percentage. (Notice not required)

c  The royalty interests and working interests are not the same with respect to identity and percentage (Notice required)  
 If b. or c checked, production will be allocated by:  W-10 (oil)  W-2 retest (oil)  PD Meter (oil & condensate)  G-10 (gas)

d  The wells produce from multiple reservoirs (Notice required unless 4e or 4f apply; see instructions for additional requirements)

e  The wells produce from multiple reservoirs and have SWR10 exceptions. (Notice not required)

f.  The wells produce from multiple reservoirs and are measured separately from each reservoir. (Notice not required)

g  Any one of the wells proposed for commingling produces from a Commission-designated reservoir for which special field rules have been adopted. (Notice required)

**SECTION 5.**  Wells proposed for commingling have an operator's name other than the applicant listed in SECTION 1. (See instructions)

**SECTION 6.**  For oil production, the production from all oil wells on each oil lease is to be commingled. (See instructions)

**SECTION 7. IDENTIFY LEASES AS SHOWN ON COMMISSION RECORDS** (attach additional pages as needed)

DISTRICT	RRC IDENTIFIER	ACTION			LEASE AND FIELD NAME	WELL NO.
08	41832	<input type="checkbox"/> Existing	<input checked="" type="checkbox"/> Add	<input type="checkbox"/> Delete	Currie "E" State Garden City, S. (Wolfcamp)	3007
08	44558	<input type="checkbox"/> Existing	<input checked="" type="checkbox"/> Add	<input type="checkbox"/> Delete	Currie "E" North Garden City, S (Wolfcamp)	3005
		<input type="checkbox"/> Existing	<input type="checkbox"/> Add	<input type="checkbox"/> Delete		
		<input type="checkbox"/> Existing	<input type="checkbox"/> Add	<input type="checkbox"/> Delete		

**ATTACH ADDITIONAL PAGES AS NEEDED.**  No additional pages  Additional pages \_\_\_\_\_ (# of additional pages)

**CERTIFICATE:** I declare under penalties in Sec 91 143, Texas Natural Resources Code, that I am authorized to file this application, that this application was prepared by me or under my supervision and direction, and that the data and facts stated therein are true, correct, and complete to be the best of my knowledge. I certify that all requests for related required approvals from other affected State Agencies have been submitted and that I understand that any authorization granted by Commission approval of this application is contingent upon the approvals from other affected State Agencies being obtained

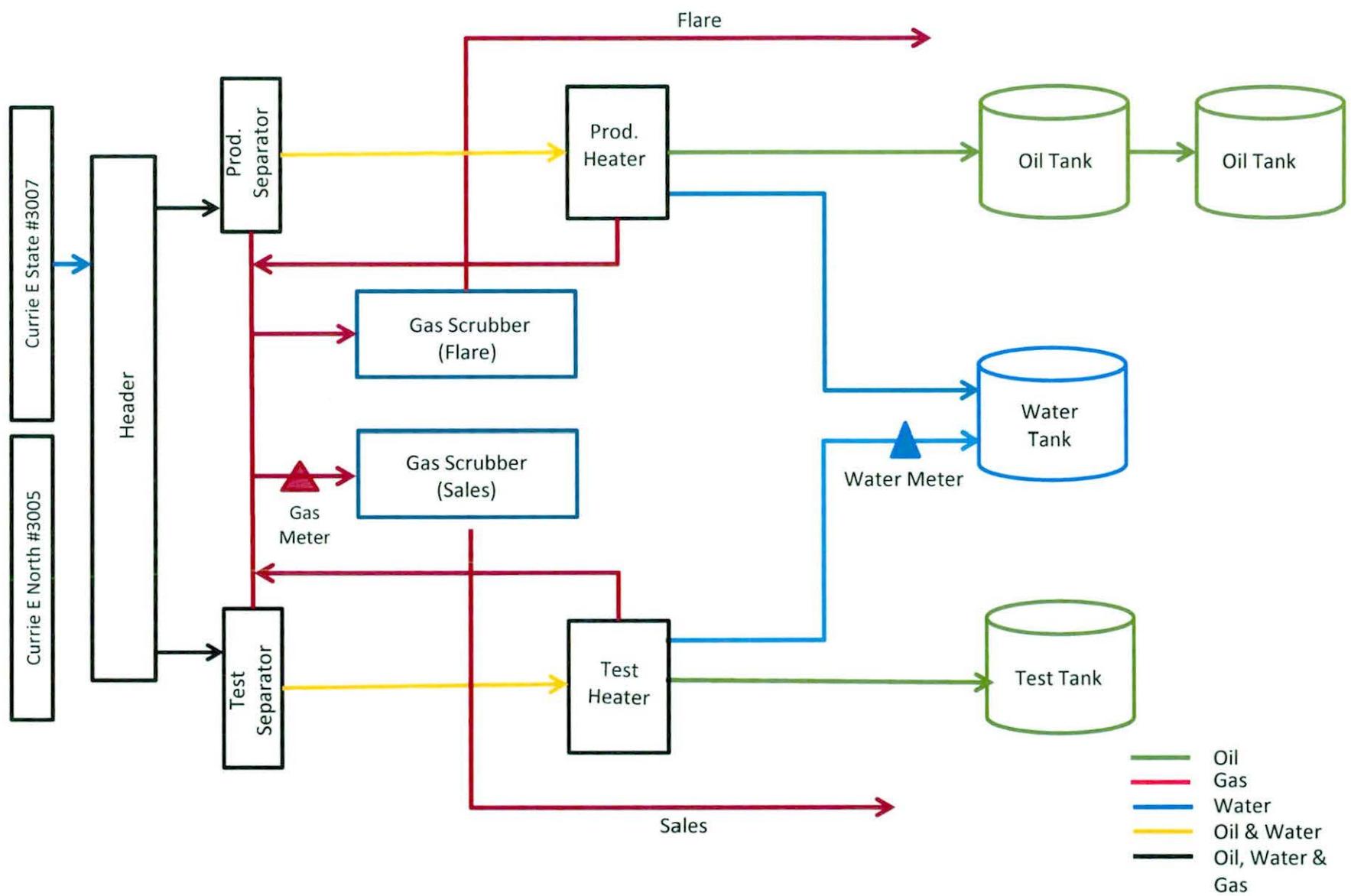
Signature: Vickie L. Gotcher Title: REGULATORY ANALYST Date: 07/11/2014

Operator E-mail Address: vgotcher@concho.com Operator Phone No: (432)818-2249  
 (Optional - If provided, e-mail address will become part of this public record)

**RRC USE ONLY**

Commingling Permit No. 7032 Approval date: 8/4/14 Approved by: Deborah Williams

# CURRIE E NORTH SEC. 30 TANK BATTERY



3007

## Currie E North Sec 30 TB

Currie E State #3007  
Currie E North #3005

### Process Flow Narrative

Oil, gas and water from individual wells will be produced to the Header. From there, individual well streams can be diverted to either the Test Separator or to the Production Separator.

For test purposes, after separation in the 2-phase Test Separator, gas will flow through the gas meter to be measured and then to the 2-phase gas scrubber. After the 2-phase gas scrubber, the gas will flow to the gas sales meter for measurement and sales or to the flare line. Oil and water will go to the Test Heater for separation. After separation, any remaining gas will flow through the gas meter to the 2-phase gas scrubber and then to sales, or to the 2-phase gas scrubber for the flare line. The oil will be sent to the oil tanks to be gauged and measured and the water will be metered and sent to the water tanks.

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### Allocation Method

Oil, gas and water production will be allocated daily to individual wells based on well tests. Individual well test values for oil, gas and water, along with daily oil and water tank straps and gas sales meter volumes will be entered into our in-house production management software. The software will then allocate the total battery oil, gas and water volumes back to the well level based on the last well test from each well. Monthly oil and gas sales will be allocated based on the sum of daily allocated well production.





File No. MF112153

GLASS COCK County  
CURRIE 'E' NORTH SEC 30  
REQUEST TO COMMINGLE

Date Filed: 3/24/2006

George P. Bush, Commissioner

By M T SCOTT

5017

**Matthew Scott - Commingling of HROW MF112153 Plat**

---

**From:** Matthew Scott  
**To:** Vickie Gotcher  
**Date:** 3/6/2015 10:42 AM  
**Subject:** Commingling of HROW MF112153 Plat  
**Attachments:** CONCHO CURRIE E STATE HROW MF112153.jpg

---

Vickie

Please reference your application dated 2/18/15 to commingle a portion of HROW MF112153.

Per the attached plat there are multiple units. Please identify the applicable GLO Unit and then revise your GLO Lease List accordingly and then send me the revised list.

Thanks,

Matthew

Matthew T. Scott, P.E.  
Petroleum Engineer  
Texas General Land Office  
1700 N. Congress  
Mineral Leasing  
Room 840  
Austin, TX 78701  
512 475-2230 Office  
512 475-1543 Fax  
Matthew.Scott@glo.texas.gov



no. MF112153

GLASSCOCK County

GLOEMAL 3/6/15  
CURRIE 'E' UNIT NOS.

Date Filed: 8/24/2016

George P. Bush, Commissioner

MT SCOTT

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

YICKIE L. GOTCHER  
 COG OPERATING LLC  
 600 W ILLINOIS AVE  
 MIDLAND TEXAS 79701

2. Article Number

(Transfer from service label)

7011 1150 0001 2416 4486

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

X


 Agent Addressee

B. Received by (Printed Name)

D Trejo Man

C. Date of Delivery

3-13-11

D. Is delivery address different from item 1?  YesIf YES, enter delivery address below:  No

3. Service Type

 Certified Mail Express Mail Registered Return Receipt for Merchandise Insured Mail C.O.D.

4. Restricted Delivery? (Extra Fee)

 Yes

UNITED STATES POSTAL SERVICE

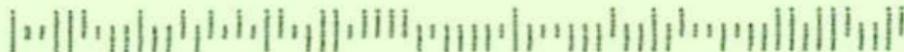
ADDRESS  
TX 78727  
SEP 14 1995



First-Class Mail  
Postage & Fees Paid  
USPS  
Permit No. G-10

- Sender: Please print your name, address, and ZIP+4 in this box •

MATTHEW SCOTT  
TEXAS GENERAL LAND OFFICE  
P. O. BOX 12873  
AUSTIN, TX 78711-2873





TEXAS GENERAL LAND OFFICE  
GEORGE P. BUSH, COMMISSIONER

March 9, 2015

Certified Mail: 7011 1150 0001 2416 4486

Ms. Vickie L. Gotcher  
COG Operating LLC  
600 W Illinois Avenue  
Midland, Texas 79701

Subject: Review of Application Requesting Permission to Commingle State of Texas Mineral Leases, HROW MF112153, GLO Unit (Pending), RRC Form P-17 08-7032, RRC District 08, Glasscock County, Texas.

Dear Ms. Gotcher:

Your letter dated February 18, 2014 requested permission to surface commingle production from the Currie "E" State #3007, RRC Lease ID 08-41832, GLO Unit (Pending), into common separation and storage with the private Currie "E" North lease operated by COG Operating LLC.

Please be advised that since no detailed allocation methodology example with narrative was provided with the application then the GLO will only agree to the allocation basis (by monthly well test) but not to the allocation methodology. Please note that unless and until we have been provided detailed allocation methodology information (e.g., metered oil volumes corrected to stock tank conditions with stock tank oil inventory and sales allocations), GLO staff might disagree with your allocation methodology in the context of an audit.

In addition, please apply for and obtain authority from the GLO to pool the affected portion of HROW lease MF112153 that is in the scope of this commingling permit.

Please be advised that the subject application is approved **subject to the following conditions.**

1. All oil production royalties shall be due based on the proportionate share of the total oil production allocated to each RRC lease determined by the performance of monthly or more frequent well tests.
2. All gas production royalties shall be due based on the proportionate share of the total gas production volumes (adjusted to MMBTUs) allocated to each RRC lease determined by the performance of monthly or more frequent well tests. The gas BTU content shall be obtained by gas sample chromatographic analysis or other industry-accepted practices.
3. Retain, for lease audit purposes, all meter and test records, volume statements/reports, oil and gas analyses reports, and shrinkage/flash gas calculation records for all state and

Ms. Vickie L. Gotcher  
COG Operating LLC  
March 9, 2015  
Page 2 of 2

private lease or unit wells in the scope of the commingle permit for a period of at least seven (7) years after creation of each report or record.

4. Any changes to the flow process, metering scheme, or the addition of any wells that are not currently processed at the commingle facility shall require the Lessee to obtain permission from the GLO prior to making said changes.

If you have questions, please contact me at (512) 475-2230, or by FAX at (512) 475-1543. My e-mail address is [matthew.scott@glo.texas.gov](mailto:matthew.scott@glo.texas.gov).

Sincerely,



Matthew T. Scott, P.E.  
Petroleum Engineer  
Energy Resources/Mineral Leasing

cc: Robert Hatter, Director Mineral Leasing

File No. MF112153

GLASSCOCK County  
AGREE TO COMMINGLE  
CURRIE 'E' NORTH SEC 30

Date Filed: 8/24/2016

George P. Bush, Commissioner

By M. J. SCOTT

April 29, 2015

Matthew T. Scott  
Texas General Land Office  
P. O. Box 12873  
Austin, TX 78711-2873Re: Permission to Surface Commingle Production from HROW MF112153  
Currie "E" State Lease with the Currie "E" North Lease a Non-GLO Lease  
And Currie State Lease with Currie Lease a Non-GLO Lease

Dear Mr. Scott:

COG Operating LLC is requesting permission to amend the Surface Commingles for the HROW MF112153 and also add another commingle battery. Please find attached, the data required for the following surface commingle permit applications. There are 3 copies for each data packet.

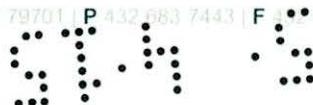
Currie E North Sec 30 TB (Amend)  
Currie E State – RRC #41832  
Currie E North – RRC# 44558Currie E North Sec. 32 TB (Amend)  
Currie E State – RRC #41832  
Currie E North – RRC # 44558Currie Sec 35 TB (Amend)  
Currie – RRC #37789  
Currie State – RRC #41335Currie Sec 36 TB (New)  
Currie – RRC #37789  
Currie State – RRC #41335

If you have any questions, please contact me at (432) 818-2249; e-mail at [vgotcher@concho.com](mailto:vgotcher@concho.com) or Terry Burkes at (432) 818-2204; e-mail [tburkes@concho.com](mailto:tburkes@concho.com).

Sincerely,

Vickie L. Gotcher  
COG Operating LLC

vg/enclosures



## Currie E North Sec 30 TB

Currie E State #3007  
Currie E North #2903  
Currie E North #3005  
Currie E North #3008  
Currie E North #3010

### Process Flow Narrative

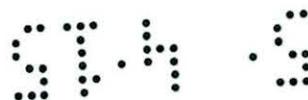
Oil, gas and water from individual wells will be produced to the Header. From there, individual well streams can be diverted to either the Test Separator or to the Production Separator.

For test purposes, after separation in the 2-phase Test Separator, gas will flow through the gas meter to be measured and then to the 2-phase gas scrubber. After the 2-phase gas scrubber, the gas will flow to the gas sales meter for measurement and sales or to the flare line. Oil and water will go to the Test Heater for separation. After separation, any remaining gas will flow through the gas meter to the 2-phase gas scrubber and then to sales, or to the 2-phase gas scrubber for the flare line. The oil will be sent to the oil tanks to be gauged and measured and the water will be metered and sent to the water tanks.

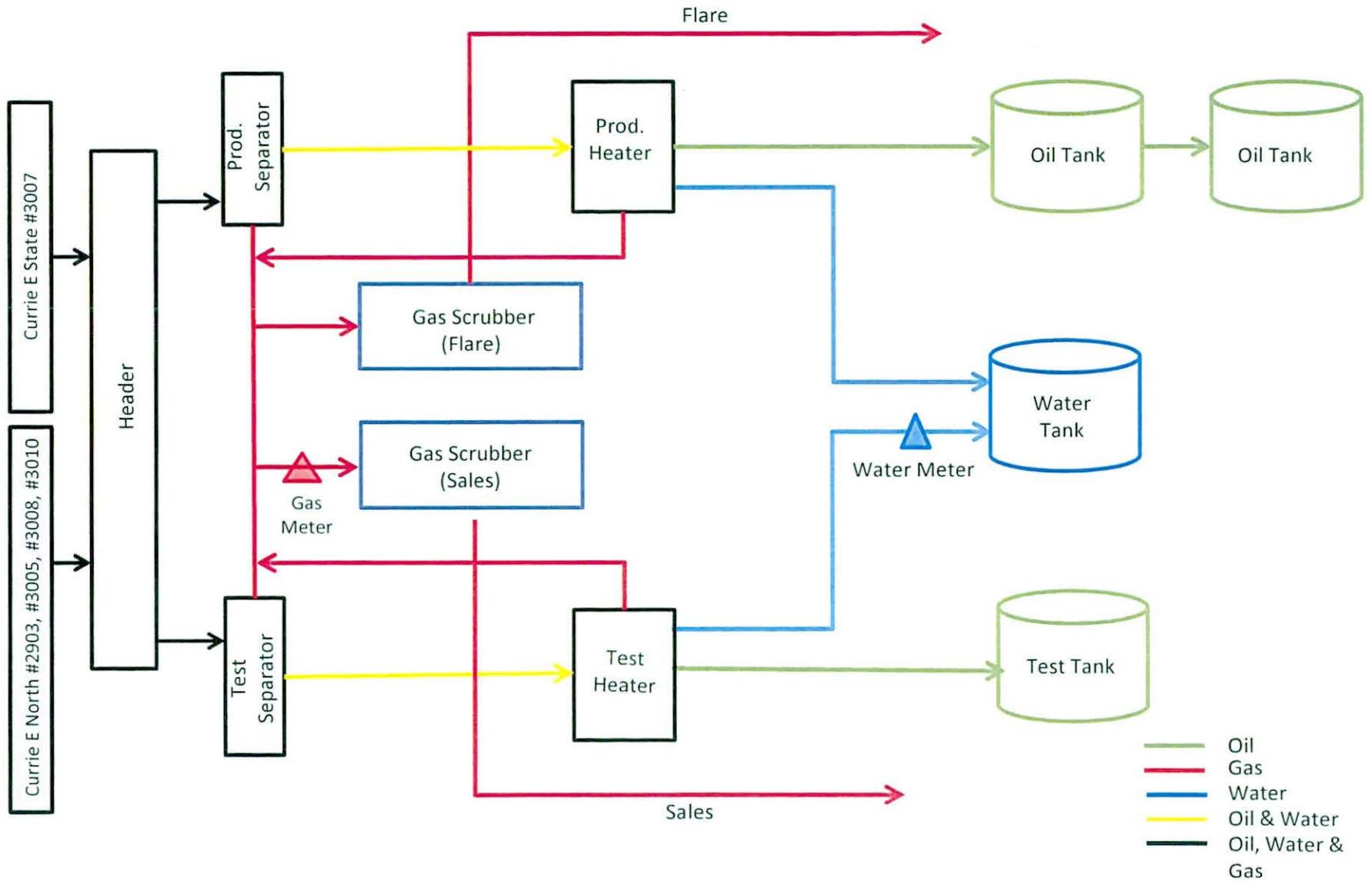
For wells not in test, they will flow to the Production Separator. Gas will be sent to the 2-phase Gas Scrubber and then on to the sales line or the 2-phase Gas Scrubber and to the flare line. Oil is sent to the oil tanks and water is sent to the water tanks.

### Allocation Method

Oil, gas and water production will be allocated daily to individual wells based on well tests. Individual well test values for oil, gas and water, along with daily oil and water tank straps and gas sales meter volumes will be entered into our in-house production management software. The software will then allocate the total battery oil, gas and water volumes back to the well level based on the last well test from each well. Monthly oil and gas sales will be allocated based on the sum of daily allocated well production.



# CURRIE E NORTH SEC. 30 TANK BATTERY



4/15/2015



<input type="checkbox"/> New <input checked="" type="checkbox"/> Amended Existing Permit No. <u>7032</u>  Effective Month/Year of Requested Exception: <u>04</u> / <u>2015</u>	<b>RAILROAD COMMISSION OF TEXAS OIL AND GAS DIVISION</b>  <b>APPLICATION FOR EXCEPTION TO STATEWIDE RULES (SWR) 26 AND/OR 27</b>  <u>CURRIE E NORTH SEC. 30</u>	DBC0308  <b>FORM P-17</b> Eff 01/2008 \$150 FILING FEE  District <u>08</u> County <u>Glasscock</u>
--	---	---

**SECTION 1. OPERATOR INFORMATION (See instructions under "Who Files")**

Operator Name (as shown on P-5): COG OPERATING LLC Operator P-5 No. 166150  
 Operator Address: 600 W ILLINOIS AVE City, State, Zip: MIDLAND TX 79701

**SECTION 2. GATHERER (of oil or condensate) INFORMATION (not required if 3b is checked)**

Gatherer Name (as shown on P-5): PLAINS MARKETING, LP Gatherer P-5 No. 667883  
 Gatherer Address: PO BOX 4648 City, State, Zip: HOUSTON TX 77210-4648  
 Gatherer E-mail Address: \_\_\_\_\_  
 (Optional - If provided, e-mail address will become part of this public record.)

**SECTION 3. APPLICATION APPLIES TO (CHECK ALL THAT APPLY):**  OIL  CASINGHEAD GAS  GAS WELL GAS  CONDENSATE

- a.  Gas well full well stream into common separation and storage facility with liquids reported on Form PR.
- b.  Gas well full well stream into a gasoline plant/common separation and storage facility with liquids reported on Form R-3 Serial # \_\_\_\_\_ (If full well stream is checked, the results of periodic tests to determine the number of stock tank barrels of liquid hydrocarbons recovered per 1,000 standard cubic feet of gas must be reported on Form G-10 in accordance with SWR 55. Attach an explanation of any exceptions to SWR 55.)
- c.  Condensate and low-pressure Gas Well Gas are commingled into low-pressure separation and storage facilities.
- d.  This request is for off lease:  storage  separation  metering.
- e.  This exception is for common storage.
- f.  This exception is for common separation.
- g.  This exception is for casinghead gas metering by:  deduct metering  allocation by well test  other \_\_\_\_\_.
- h.  This exception is for gas well gas metering by:  deduct metering  allocation by well test  other \_\_\_\_\_.
- i.  This request is an exception to measure liquid with a: (check one below)  
 a Turbine Meter or  a Coriolis Meter (an additional \$150.00 and a letter of explanation is required for each exception.)

**SECTION 4. NOTICE REQUIREMENTS AND ALLOCATION METHOD. (CHECK ALL THAT APPLY)** The following questions determine if 21-day notice is required and applies to all wells proposed for commingling:

- a.  The production is measured separately from all leases or individual wells before commingling. (Notice not required; Skip to Section 5)
- b.  The royalty interests and working interests are the same with respect to identity and percentage. (Notice not required)
- c.  The royalty interests and working interests are not the same with respect to identity and percentage. (Notice required)  
 If b. or c. checked, production will be allocated by:  W-10 (oil)  W-2 retest (oil)  PD Meter (oil & condensate)  G-10 (gas)
- d.  The wells produce from multiple reservoirs. (Notice required unless 4e. or 4f. apply; see instructions for additional requirements)
- e.  The wells produce from multiple reservoirs and have SWR10 exceptions. (Notice not required)
- f.  The wells produce from multiple reservoirs and are measured separately from each reservoir. (Notice not required)
- g.  Any one of the wells proposed for commingling produces from a Commission-designated reservoir for which special field rules have been adopted. (Notice required)

**SECTION 5.**  Wells proposed for commingling have an operator's name other than the applicant listed in SECTION 1. (See instructions)

**SECTION 6.**  For oil production, the production from all oil wells on each oil lease is to be commingled. (See instructions)

**SECTION 7. IDENTIFY LEASES AS SHOWN ON COMMISSION RECORDS (attach additional pages as needed)**

DISTRICT	RRC IDENTIFIER	ACTION			LEASE AND FIELD NAME		WELL NO.
08	41832	<input checked="" type="checkbox"/> Existing	<input type="checkbox"/> Add	<input type="checkbox"/> Delete	Currie E State	Garden City, S. (Wolfcamp)	3007
08	44558	<input checked="" type="checkbox"/> Existing	<input type="checkbox"/> Add	<input type="checkbox"/> Delete	Currie E North	Garden City, S. (Wolfcamp)	3005
08	44558	<input type="checkbox"/> Existing	<input checked="" type="checkbox"/> Add	<input type="checkbox"/> Delete	Currie E North	Garden City, S. (Wolfcamp)	2903
08	44558	<input type="checkbox"/> Existing	<input checked="" type="checkbox"/> Add	<input type="checkbox"/> Delete	Currie E North	Garden City, S. (Wolfcamp)	3008

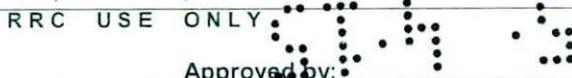
**ATTACH ADDITIONAL PAGES AS NEEDED.**  No additional pages  Additional pages \_\_\_\_\_ (# of additional pages)

**CERTIFICATE:** I declare under penalties in Sec. 91.143, Texas Natural Resources Code, that I am authorized to file this application, that this application was prepared by me or under my supervision and direction, and that the data and facts stated therein are true, correct, and complete to the best of my knowledge. I certify that all requests for related required approvals from other affected State Agencies have been submitted and that I understand that any authorization granted by Commission approval of this application is contingent upon the approvals from other affected State Agencies being obtained.

Signature Vickie L Gotcher Title Vickie L Gotcher Date 04/09/2015

Operator E-mail Address: vgotcher@concho.com Operator Phone No. (432)818-2249

(Optional - If provided, e-mail address will become part of this public record.)



Commingling Permit No. \_\_\_\_\_ Approval date: \_\_\_\_\_ Approved by: \_\_\_\_\_







## Currie E North Sec. 32 TB

Currie 'E' State #3207  
Currie 'E' State #4101  
Currie 'E' North #2916  
Currie 'E' North #3201  
Currie 'E' North #3206  
Currie 'E' North #3208

### Process Flow Narrative

Oil, gas and water from individual wells will be produced to the Header. From there, individual well streams can be diverted to either the Test Separator or to the Production Separator.

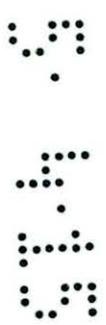
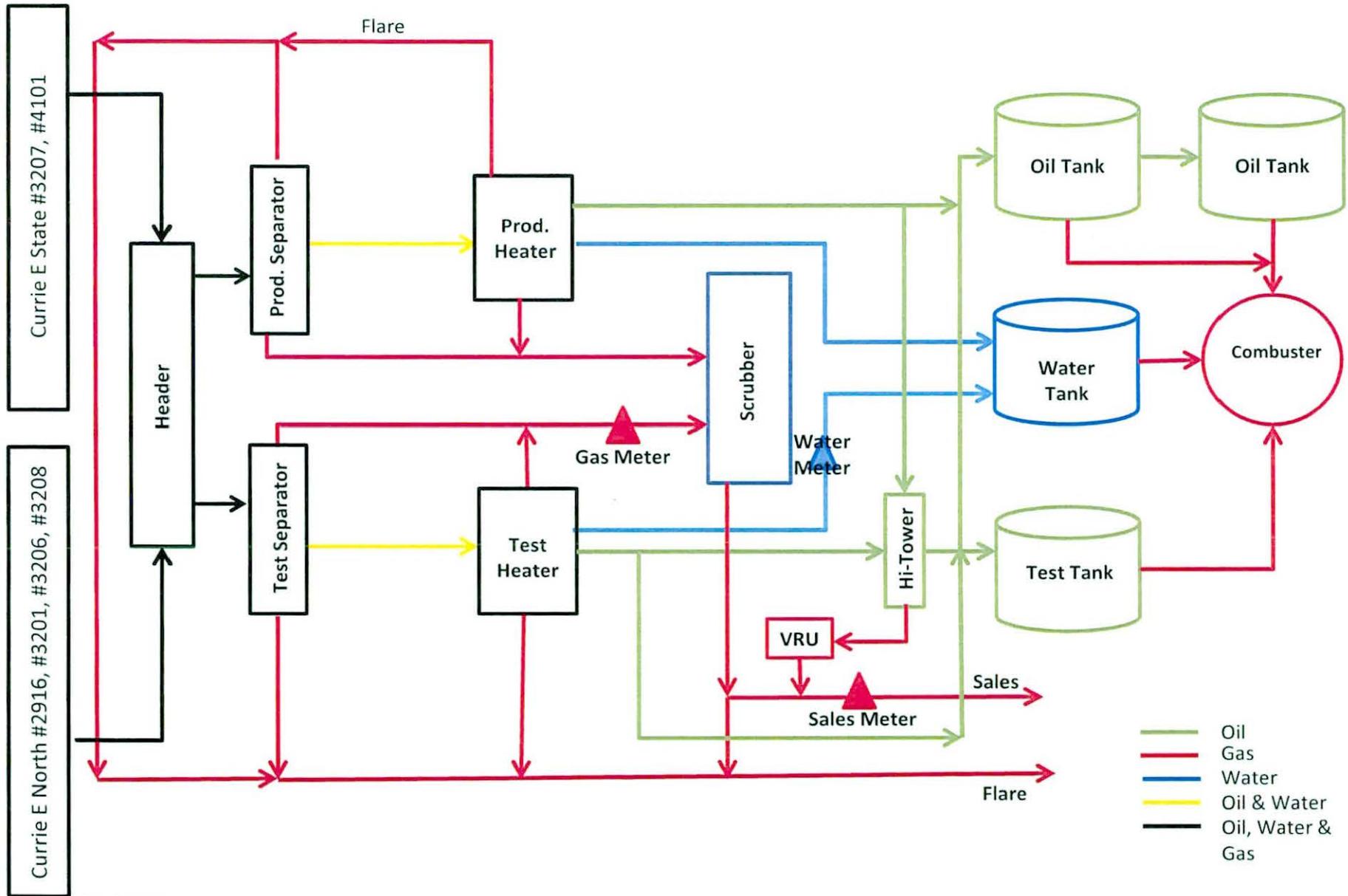
For test purposes, after separation in the Test Separator, gas will be metered through the gas meter, flow through the 2-phase Gas Scrubber and sent to the gas sales meter for measurement and sales. Oil and water will then go to the Test Heater for separation. After separation, any remaining gas will flow through the gas meter and then to the 2-phase Gas Scrubber. The oil will flow through to the Hi-Tower and then to the Test Tank to be gauged and measured. Any remaining gas will flow from the Hi-Tower to the VRU and then on to sales. Water will be metered and sent to the water tanks. Any production vapors that accumulate in the oil and water tanks will go to the Combuster.

For wells not in test, after separation, they will flow to the Production Separator where the well stream is separated. Gas will be sent to the 2-phase Gas Scrubber and then on to the gas sales meter for measurement and sales. The oil is then sent to the oil tanks and the water is sent to the water tanks.

### Allocation Method

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# CURRIE E NORTH SEC. 32 TANK BATTERY



- Oil
- Gas
- Water
- Oil & Water
- Oil, Water & Gas

4/15/2015

**SECTION 1. OPERATOR INFORMATION (See instructions under "Who Files")**

Operator Name (as shown on P-5): COG OPERATING LLC Operator P-5 No. 166150

Operator Address: 600 W ILLINOIS AVE City, State, Zip: MIDLAND TX 79701

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Gatherer E-mail Address: bajenkins@paapl.com  
 (Optional - If provided, e-mail address will become part of this public record.)

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e.  This exception is for common storage.

f.  This exception is for common separation.

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h.  This exception is for gas well gas metering by:  deduct metering  allocation by well test  other \_\_\_\_\_.

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f.  The wells produce from multiple reservoirs and are measured separately from each reservoir. (Notice not required)

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DISTRICT	RRC IDENTIFIER	ACTION	LEASE AND FIELD NAME	WELL NO.
08	44558	<input checked="" type="checkbox"/> Existing <input type="checkbox"/> Add <input type="checkbox"/> Delete	Currie E North Garden City, S. (Wolfcamp)	3201
08	44558	<input checked="" type="checkbox"/> Existing <input type="checkbox"/> Add <input type="checkbox"/> Delete	Currie E North Garden City, S. (Wolfcamp)	3208
08	41832	<input checked="" type="checkbox"/> Existing <input type="checkbox"/> Add <input type="checkbox"/> Delete	Currie E State Garden City, S. (Wolfcamp)	3207
08	41832	<input type="checkbox"/> Existing <input type="checkbox"/> Add <input checked="" type="checkbox"/> Delete	Currie E State Garden City, S. (Wolfcamp)	4104

**ATTACH ADDITIONAL PAGES AS NEEDED.**  No additional pages  Additional pages 1 (# of additional pages)

**CERTIFICATE:** I declare under penalties in Sec. 91.143, Texas Natural Resources Code, that I am authorized to file this application, that this application was prepared by me or under my supervision and direction, and that the data and facts stated therein are true, correct, and complete to be the best of my knowledge. I certify that all requests for related required approvals from other affected State Agencies have been submitted and that I understand that any authorization granted by Commission approval of this application is contingent upon the approvals from other affected State Agencies being obtained.

Signature: Vickie L. Gotcher Title: VICKIE L GOTCHER Date: 04/09/2015

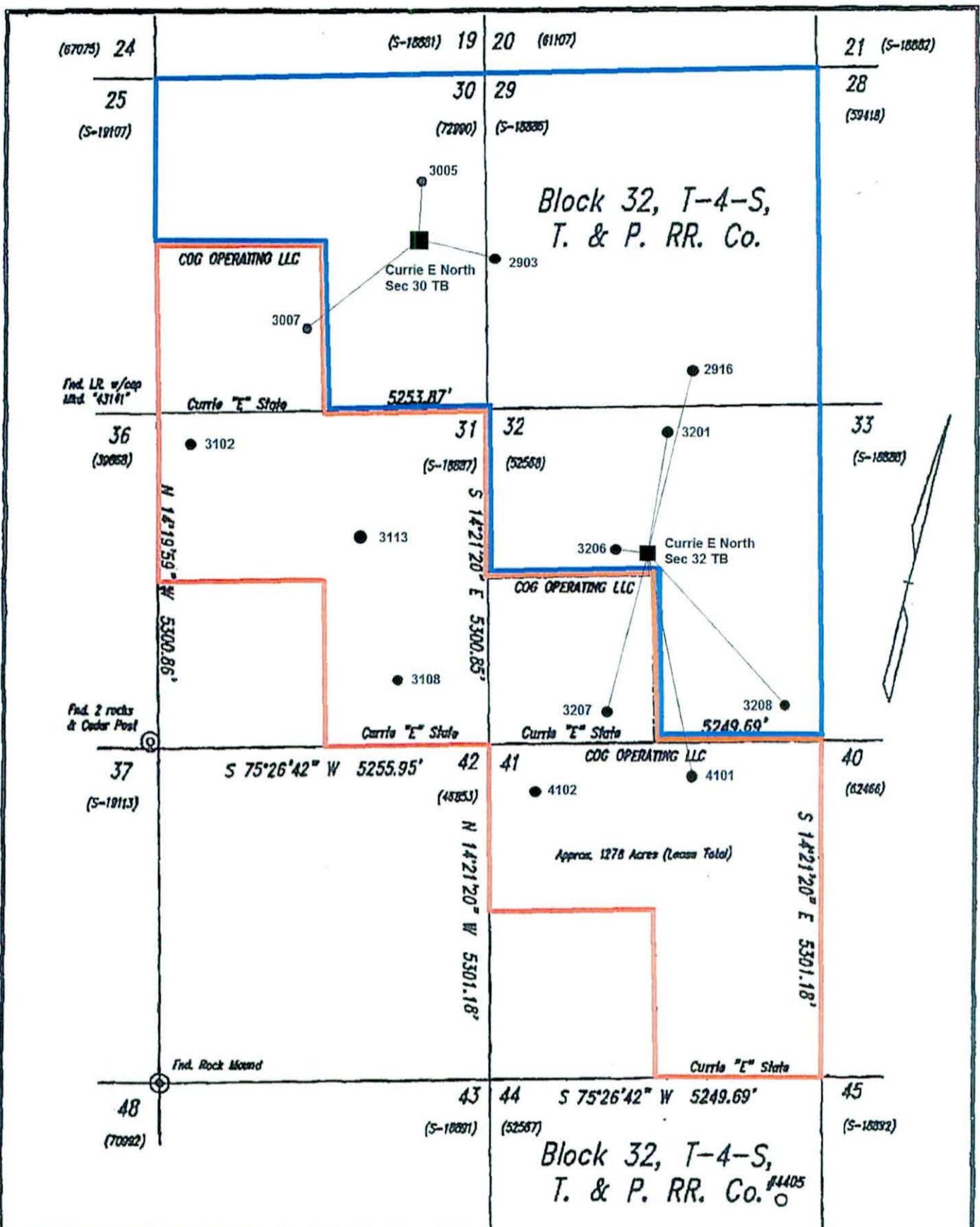
Operator E-mail Address: vgotcher@conoco.com Operator Phone No. \_\_\_\_\_  
 (Optional - If provided, e-mail address will become part of this public record.)

RRC USE ONLY

Commingling Permit No. \_\_\_\_\_ Approval date: \_\_\_\_\_ Approved by: \_\_\_\_\_







Note: Survey Reconstruction Made in the Office of Luchini and Mertz Land Surveying Company.  
 Note: All bearings and coordinates shown are based on the Texas Coordinate System of 1927, Central Zone.  
 A combined grid factor of 0.9999832 must be added into all distances to obtain a true horizontal distance.  
 Note: Example: (S-08399) indicates General Land Office file number.

Currie E North Lease  
 Currie E State Lease

STATE OF TEXAS  
 REGISTERED  
 STEVEN L. PREWITT  
 5106  
 PROFESSIONAL  
 LAND SURVEYOR

*Steven L. Prewitt*

March 2011  
 Currie E State Lease

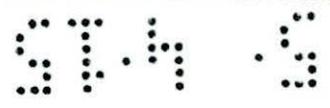
PROFESSIONAL LAND SURVEYORS  
 LUCHINI & MERTZ  
 Boundary Surveyors

P. O. Box 1983, Midland, Texas 79702. (432) 684-6728 Fax 684-1845

Railroad Commission Permit Plot

COG OPERATING LLC  
 Currie E North Sec 30 Tank Battery  
 Currie E North Sec 32 Tank Battery  
 Sec 30 & 32, Blk 32, T-4-S, T & P RR Co  
 Glasscock County, Texas

Scale: 1" = 2000'



## Currie Sec. 35 Tank Battery

Currie #3501  
Currie #3512  
Currie State #2508

### Process Flow Narrative

Oil, gas and water from individual wells will be produced to the Header. From there, individual well streams can be diverted to either the Test Separator or to the Production Separator.

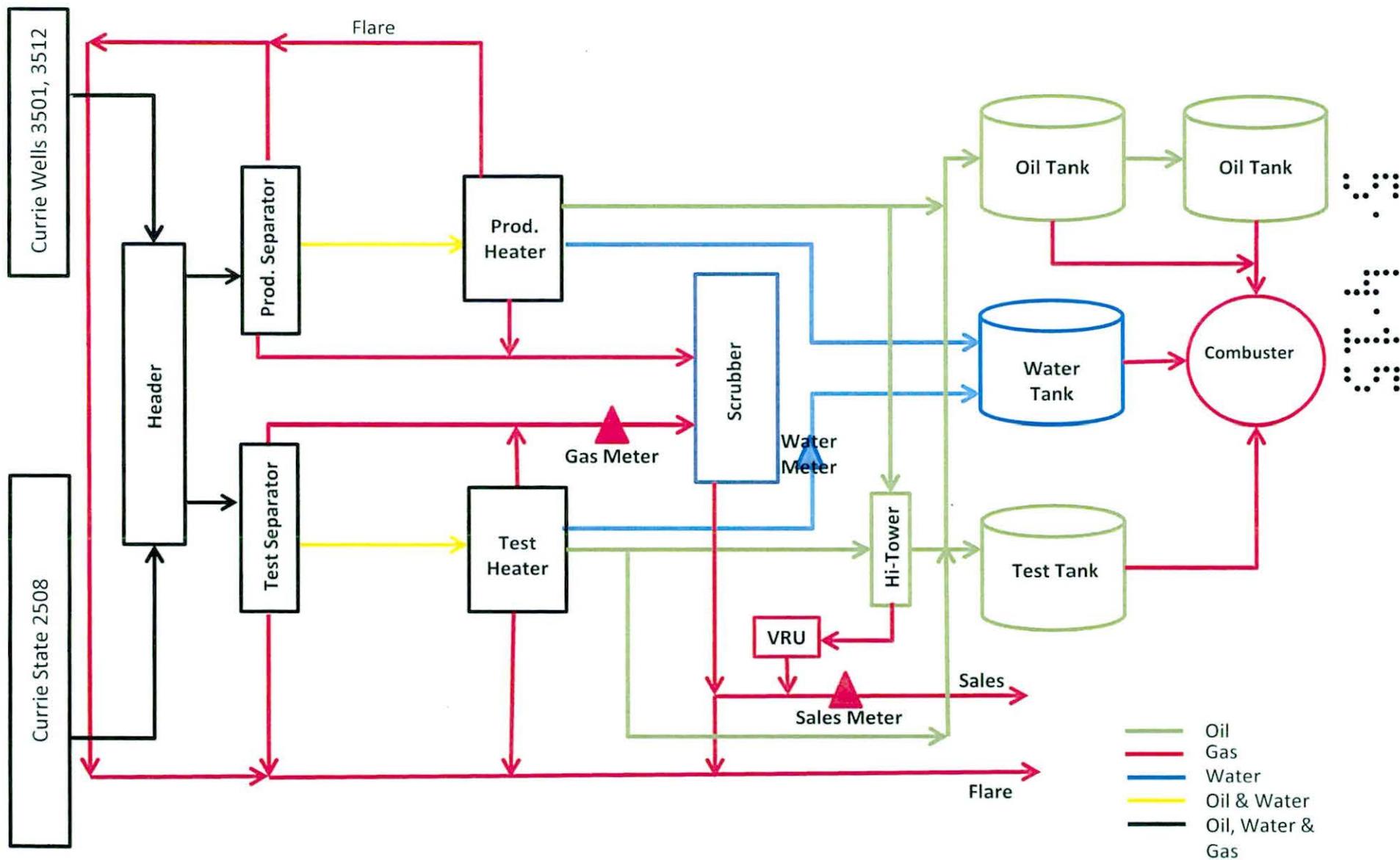
For test purposes, after separation in the Test Separator, gas will be metered through the gas meter, flow through the 2-phase Gas Scrubber and sent to the gas sales meter for measurement and sales. Oil and water will then go to the Test Heater for separation. After separation, any remaining gas will flow through the gas meter and then to the 2-phase Gas Scrubber. The oil will flow through to the Hi-Tower and then to the Test Tank to be gauged and measured. Any remaining gas will flow from the Hi-Tower to the VRU and then on to sales. Water will be metered and sent to the water tanks. Any production vapors that accumulate in the oil and water tanks will go to the Combuster.

For wells not in test, after separation, they will flow to the Production Separator where the well stream is separated. Gas will be sent to the 2-phase Gas Scrubber and then on to the gas sales meter for measurement and sales. The oil is then sent to the oil tanks and the water is sent to the water tanks.

### Allocation Method

Oil, gas and water production will be allocated daily to individual wells based on well tests. Individual well test values for oil, gas and water, along with daily oil and water tank straps and gas sales meter volumes will be entered into our in-house production management software. The software will then allocate the total battery oil, gas and water volumes back to the well level based on the last well test from each well. Monthly oil and gas sales will be allocated based on the sum of daily allocated well production.

# CURRIE SEC 35 TANK BATTERY



4/15/2015

3102088

RAILROAD COMMISSION OF TEXAS  
OIL AND GAS DIVISION

DBC0308

FORM P-17  
Eff 01/2008  
\$150 FILING FEE

New  
 Amended  
Existing Permit No. 6281  
Effective Month/Year of Requested  
Exception: 02 / 2015

APPLICATION FOR EXCEPTION TO  
STATEWIDE RULES (SWR) 26 AND/OR 27

District 08  
County GLASSCOCK

CURRIE SEC. 35 TB

SECTION 1. OPERATOR INFORMATION (See instructions under "Who Files")

Operator Name (as shown on P-5): COG OPERATING LLC Operator P-5 No. 166150  
Operator Address: 600 W ILLINOIS AVE City, State, Zip: MIDLAND TX 79701

SECTION 2. GATHERER (of oil or condensate) INFORMATION (not required if 3b is checked)

Gatherer Name (as shown on P-5): PLAINS MARKETING, LP Gatherer P-5 No. 667883  
Gatherer Address: PO BOX 4648 City, State, Zip: HOUSTON TX 77210  
Gatherer E-mail Address: bajenkins@paalp.com  
(Optional - If provided, e-mail address will become part of this public record.)

SECTION 3. APPLICATION APPLIES TO (CHECK ALL THAT APPLY):  OIL  CASINGHEAD GAS  GAS WELL GAS  CONDENSATE

- a.  Gas well full well stream into common separation and storage facility with liquids reported on Form PR.
- b.  Gas well full well stream into a gasoline plant/common separation and storage facility with liquids reported on Form R-3 Serial # \_\_\_\_\_ (If full well stream is checked, the results of periodic tests to determine the number of stock tank barrels of liquid hydrocarbons recovered per 1,000 standard cubic feet of gas must be reported on Form G-10 in accordance with SWR 55. Attach an explanation of any exceptions to SWR 55.)
- c.  Condensate and low-pressure Gas Well Gas are commingled into low-pressure separation and storage facilities.
- d.  This request is for off lease:  storage  separation  metering.
- e.  This exception is for common storage.
- f.  This exception is for common separation.
- g.  This exception is for casinghead gas metering by:  deduct metering  allocation by well test  other \_\_\_\_\_
- h.  This exception is for gas well gas metering by:  deduct metering  allocation by well test  other \_\_\_\_\_
- i.  This request is an exception to measure liquid with a: (check one below)  
 a Turbine Meter or  a Coriolis Meter (an additional \$150.00 and a letter of explanation is required for each exception.)

RECEIVED  
RRC OF TEXAS  
FEB 13 2015  
O&G  
AUSTIN TX

SECTION 4. NOTICE REQUIREMENTS AND ALLOCATION METHOD. (CHECK ALL THAT APPLY) The following questions determine if 21-day notice is required and applied to all wells proposed for commingling:

- a.  The production is measured separately from all leases or individual wells before commingling. (Notice not required; Skip to Section 5)
- b.  The royalty interests and working interests are the same with respect to identity and percentage. (Notice not required)
- c.  The royalty interests and working interests are not the same with respect to identity and percentage. (Notice required)  
If b. or c. checked, production will be allocated by:  W-10 (oil)  W-2 retest (oil)  PD Meter (oil & condensate)  G-10 (gas)
- d.  The wells produce from multiple reservoirs. (Notice required unless 4e. or 4f. apply; see instructions for additional requirements)
- e.  The wells produce from multiple reservoirs and have SWR10 exceptions. (Notice not required)
- f.  The wells produce from multiple reservoirs and are measured separately from each reservoir. (Notice not required)
- g.  Any one of the wells proposed for commingling produces from a Commission-designated reservoir for which special field rules have been adopted. (Notice required)

SECTION 5.  Wells proposed for commingling have an operator's name other than the applicant listed in SECTION 1. (See instructions)

SECTION 6.  For oil production, the production from all oil wells on each oil lease is to be commingled. (See instructions)

SECTION 7. IDENTIFY LEASES AS SHOWN ON COMMISSION RECORDS (attach additional pages as needed)

DISTRICT	RRC IDENTIFIER	ACTION	LEASE AND FIELD NAME	WELL NO.
08	37789	<input checked="" type="checkbox"/> Existing <input type="checkbox"/> Add <input type="checkbox"/> Delete	Currie Garden City, S. (Wolfcamp)	3501
08	37789	<input checked="" type="checkbox"/> Existing <input type="checkbox"/> Add <input type="checkbox"/> Delete	Currie Garden City, S. (Wolfcamp)	3512
08	41335	<input checked="" type="checkbox"/> Existing <input type="checkbox"/> Add <input type="checkbox"/> Delete	Currie State Garden City, S. (Wolfcamp)	2508
08	37789	<input type="checkbox"/> Existing <input type="checkbox"/> Add <input checked="" type="checkbox"/> Delete	Currie Garden City, S. (Wolfcamp)	2607

ATTACH ADDITIONAL PAGES AS NEEDED.  No additional pages  Additional pages \_\_\_\_\_ (# of additional pages)

CERTIFICATE: I declare under penalties in Sec. 91.143, Texas Natural Resources Code, that I am authorized to file this application, that this application was prepared by me or under my supervision and direction, and that the data and facts stated therein are true, correct, and complete to be the best of my knowledge. I certify that all requests for related required approvals from other affected State Agencies have been submitted and that I understand that any authorization granted by Commission approval of this application is contingent upon the approvals from other affected State Agencies being obtained.

Signature Vickie L. Gotcher Title REGULATORY ANALYST Date 02/11/2015  
Operator E-mail Address: vgotcher@concho.com Operator Phone No. (432)818-2249  
(Optional - If provided, e-mail address will become part of this public record.)

Commingling Permit No. 0281 Approval date: 03/09/15 Approved by: [Signature]



Commingle Permit Applicant: COG OPERATING LLC  
 RRC District: 08  
 RRC Form P-17 Permit No 6281  
 RRC P-17 Application Date 3/9/2015

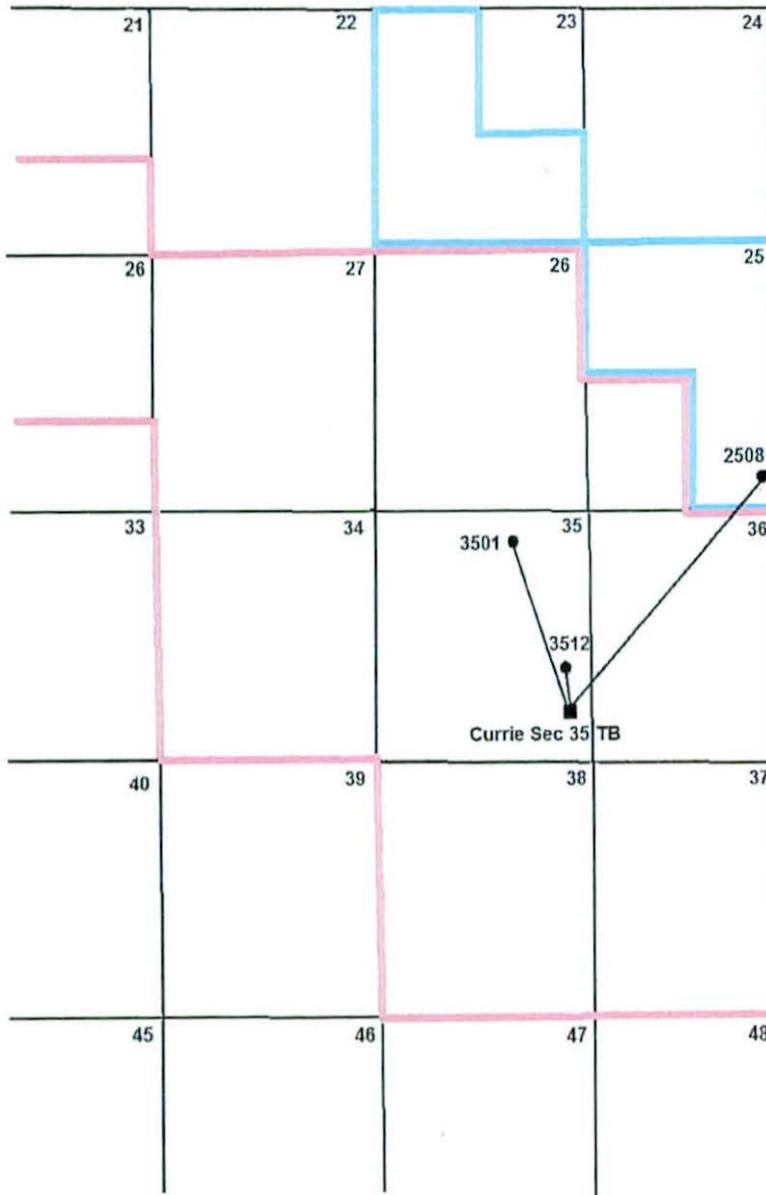
REPORTS OIL PRODUCTION ON FORM PR; HOWEVER, ALL STATE LEASES ARE NOT EQUIPPED WITH AN OIL AND GAS SEPARATOR WITH OIL AND GAS SEPARATELY METERED BEFORE COMMINGLING WITH OTHER LEASES.

P-17 RRC Request Status	Lease Commingle Facility Name	RRC Field Name	RRC Lease Name	RRC Well No.	RRC Lease/ID No.	Wellbore 10 Digit API No.	RRC Lease Form P4 Operator	RRC Lease Type (Oil/Gas)	Gas Production MCF/Month	Oil Production STB/Month	RRC Production Month	RRC Production Source	RRC Well Status	State Mineral Lease No.	GLO or Private Unit Name (If Unitized)	GLO Unit No.	SEE NOTE 2
																	State Mineral Lease or Unit Net Royalty Interest
6281	Currie Sec 35 Tank Battery	Garden City, S. (Wolfcamp)	Currie	3501	37789	42-173-35476	COG	Oil	3477	1162	Feb-15	RRC PR-Alloc	Active				
6281	Currie Sec 35 Tank Battery	Garden City, S. (Wolfcamp)	Currie	3512	37789	42-173-33413	COG	Oil	411	87	Feb-15	RRC PR-Alloc	Active				
6281	Currie Sec 35 Tank Battery	Garden City, S. (Wolfcamp)	Currie State	2508	41335	42-173-34069	COG	Oil	1350	31	Feb-15	RRC PR-Alloc	Active	MF112153	Currie State #2508	5160	0.00094550

- NOTES:
1. ENTER THE STATE MINERAL LEASE NUMBER WHERE THE PRODUCTIVE FIELD INTERVAL OF THE WELL IS LOCATED WITHIN THE PHYSICAL BOUNDARY OF THE LEASE. IF, DUE TO DEPTH LIMITATIONS, SEVERAL LEASES EXIST WITHIN A COMMON WELLBORE, THEN ENTER THE MINERAL LEASE NUMBER FOR THE PRODUCING FIELD INTERVAL. IF THE WELLBORE OF A HORIZONTAL WELL OR DIRECTIONAL WELL TRAVERSES MULTIPLE STATE MINERAL LEASES THEN ENTER EACH STATE MINERAL LEASE ASSOCIATED WITH THE PRODUCING FIELD INTERVAL IN ORDER FROM THE HEAL (FIRST TAKE POINT) TO THE TOE (LAST TAKE POINT) OF THE WELL AND ENTER THE GLO UNIT NAME, NUMBER, AND UNIT NRI IN THE APPROPRIATE COLUMNS.
  2. ENTER THE STATE MINERAL LEASE INTEREST UNLESS THE WELL IS ASSOCIATED WITH A GLO POOLED UNIT THEN ENTER THE POOLED UNIT NET ROYALTY INTEREST.
  3. IF RRC LEASE ID PENDING ASSIGNMENT THEN ENTER "DP" FOLLOWED BY THE RRC DRILLING PERMIT NO. FOR THE COMPLETED INTERVAL.



CURRIE SECTION 35 TANK BATTERY



BLOCK 32, T-4-S  
T & P RR CO SURVEY  
GLASSCOCK CO, TEXAS

BLOCK 33, T-5-2  
T & P RR CO SURVEY  
GLASSCOCK CO, TEXAS

BLOCK 32, T-5-S  
T & P RR CO SURVEY  
GLASSCOCK CO, TX

CURRIE LEASE  
 CURRIE STATE LEASE

## Currie Sec. 36 Tank Battery

Currie #3601H  
Currie #3615  
Currie #3606  
Currie State #2501

### Process Flow Narrative

Oil, gas and water from individual wells will be produced to the Header. From there, individual well streams can be diverted to either the Test Separator or to the Production Separator.

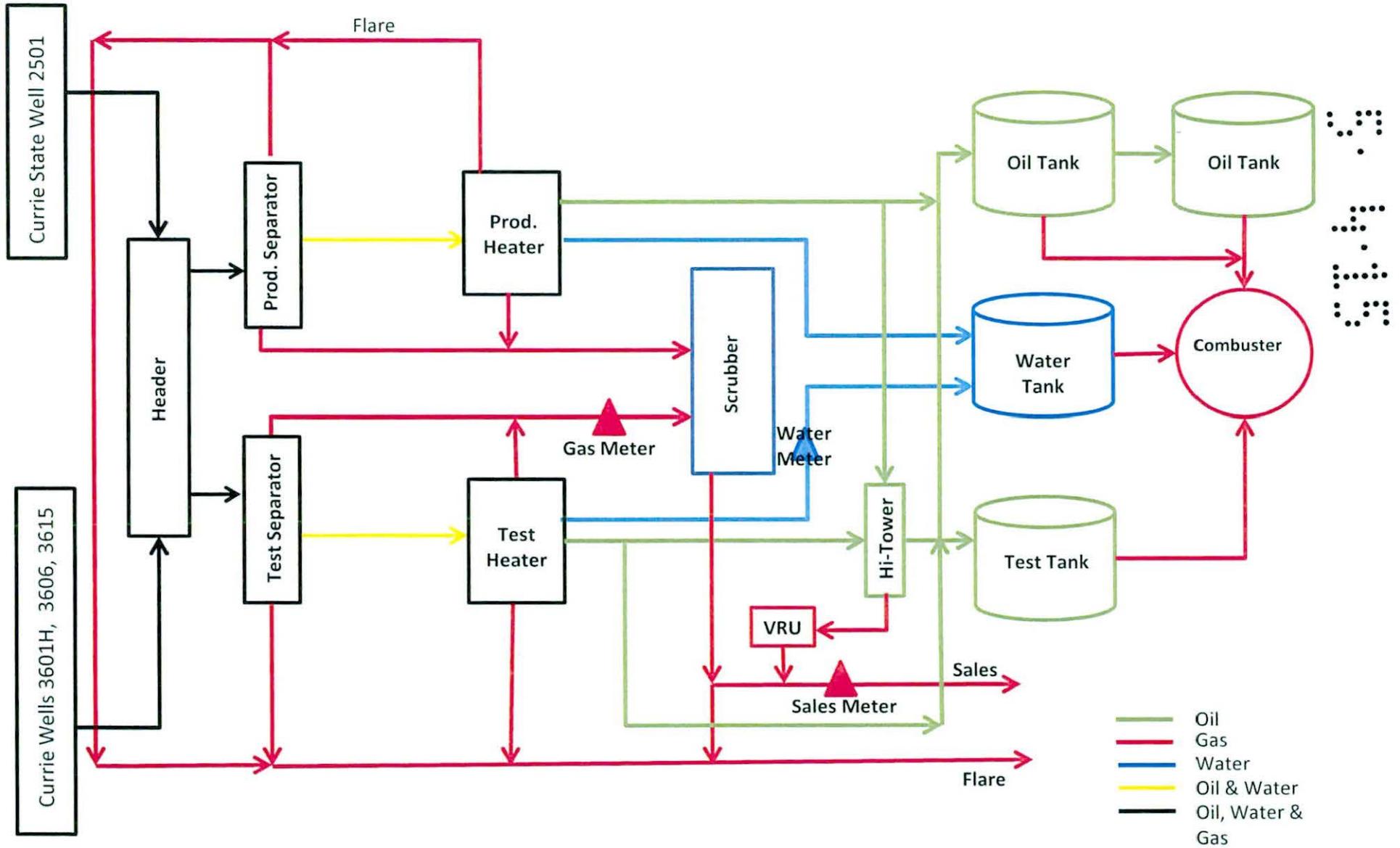
For test purposes, after separation in the Test Separator, gas will be metered through the gas meter, flow through the 2-phase Gas Scrubber and sent to the gas sales meter for measurement and sales. Oil and water will then go to the Test Heater for separation. After separation, any remaining gas will flow through the gas meter and then to the 2-phase Gas Scrubber. The oil will flow through to the Hi-Tower and then to the Test Tank to be gauged and measured. Any remaining gas will flow from the Hi-Tower to the VRU and then on to sales. Water will be metered and sent to the water tanks. Any production vapors that accumulate in the oil and water tanks will go to the Combuster.

For wells not in test, after separation, they will flow to the Production Separator where the well stream is separated. Gas will be sent to the 2-phase Gas Scrubber and then on to the gas sales meter for measurement and sales. The oil is then sent to the oil tanks and the water is sent to the water tanks.

### Allocation Method

Oil, gas and water production will be allocated daily to individual wells based on well tests. Individual well test values for oil, gas and water, along with daily oil and water tank straps and gas sales meter volumes will be entered into our in-house production management software. The software will then allocate the total battery oil, gas and water volumes back to the well level based on the last well test from each well. Monthly oil and gas sales will be allocated based on the sum of daily allocated well production.

# CURRIE SEC 36 TANK BATTERY



<input checked="" type="checkbox"/> New <input type="checkbox"/> Amended Existing Permit No. _____	RAILROAD COMMISSION OF TEXAS OIL AND GAS DIVISION DBC0308	FORM P-17 Eff 01/2008 \$150 FILING FEE
Effective Month/Year of Requested Exception: <u>12 / 2014</u>	APPLICATION FOR EXCEPTION TO STATEWIDE RULES (SWR) 26 AND/OR 27 <u>CURRIE SEC. 36 TB</u>	District <u>08</u> County <u>Glasscock</u>

**SECTION 1. OPERATOR INFORMATION (See instructions under "Who Files")**

Operator Name (as shown on P-5): COG Operating LLC Operator P-5 No. 166150

Operator Address: 600 W Illinois Ave City, State, Zip: Midland TX 79701

**SECTION 2. GATHERER (of oil or condensate) INFORMATION (not required if 3b is checked)**

Gatherer Name (as shown on P-5): Plains Mrketing, LP Gatherer P-5 No. 667883

Gatherer Address: PO Box 4648 City, State, Zip: Houston TX 77210

Gatherer E-mail Address: bajenkins@paalp.com  
(Optional - If provided, e-mail address will become part of this public record.)

**SECTION 3. APPLICATION APPLIES TO (CHECK ALL THAT APPLY):**  OIL  CASINGHEAD GAS  GAS WELL GAS  CONDENSATE

a.  Gas well full well stream into common separation and storage facility with liquids reported on Form PR.  
b.  Gas well full well stream into a gasoline plant/common separation and storage facility with liquids reported on Form R-3 Serial # \_\_\_\_\_ (If full well stream is checked, the results of periodic tests to determine the number of stock tank barrels of liquid hydrocarbons recovered per 1,000 standard cubic feet of gas must be reported on Form G-10 in accordance with SWR 55. Attach an explanation of any exceptions to SWR 55.)  
c.  Condensate and low-pressure Gas Well Gas are commingled into low-pressure separation and storage facilities.  
d.  This request is for off lease:  storage  separation  metering.  
e.  This exception is for common storage.  
f.  This exception is for common separation.  
g.  This exception is for casinghead gas metering by:  deduct metering  allocation by well test  other \_\_\_\_\_  
h.  This exception is for gas well gas metering by:  deduct metering  allocation by well test  other ALSTON TX  
i.  This request is an exception to measure liquid with a: (check one below)  
 a Turbine Meter or  a Coriolis Meter (an additional \$150.00 and a letter of explanation is required for each exception.)

RECORDED WITH  
RRC OF TEXAS  
FEB 17 2015

**SECTION 4. NOTICE REQUIREMENTS AND ALLOCATION METHOD. (CHECK ALL THAT APPLY)** The following questions determine if 21-day notice is required and applies to all wells proposed for commingling:

a.  The production is measured separately from all leases or individual wells before commingling. (Notice not required; Skip to Section 5)  
b.  The royalty interests and working interests are the same with respect to identity and percentage. (Notice not required)  
c.  The royalty interests and working interests are not the same with respect to identity and percentage. (Notice required)  
If b. or c. checked, production will be allocated by:  W-10 (oil)  W-2 retest (oil)  PD Meter (oil & condensate)  G-10 (gas)  
d.  The wells produce from multiple reservoirs. (Notice required unless 4e. or 4f. apply; see instructions for additional requirements)  
e.  The wells produce from multiple reservoirs and have SWR10 exceptions. (Notice not required)  
f.  The wells produce from multiple reservoirs and are measured separately from each reservoir. (Notice not required)  
g.  Any one of the wells proposed for commingling produces from a Commission-designated reservoir for which special field rules have been adopted. (Notice required)

**SECTION 5.**  Wells proposed for commingling have an operator's name other than the applicant listed in SECTION 1. (See instructions)

**SECTION 6.**  For oil production, the production from all oil wells on each oil lease is to be commingled. (See instructions)

**SECTION 7. IDENTIFY LEASES AS SHOWN ON COMMISSION RECORDS (attach additional pages as needed)**

DISTRICT	RRC IDENTIFIER	ACTION	LEASE AND FIELD NAME	WELL NO.
08	37789	<input type="checkbox"/> Existing <input checked="" type="checkbox"/> Add <input type="checkbox"/> Delete	Currie Garden City, S. (Wolfcamp)	3601H
08	37789	<input type="checkbox"/> Existing <input checked="" type="checkbox"/> Add <input type="checkbox"/> Delete	Currie Garden City, S. (Wolfcamp)	3615
08	<del>37790</del> 37789	<input type="checkbox"/> Existing <input checked="" type="checkbox"/> Add <input type="checkbox"/> Delete	Currie Garden City, S. (Wolfcamp)	3606
08	41335	<input type="checkbox"/> Existing <input checked="" type="checkbox"/> Add <input type="checkbox"/> Delete	Currie State Garden City, S. (Wolfcamp)	2501

**ATTACH ADDITIONAL PAGES AS NEEDED.**  No additional pages  Additional pages \_\_\_\_\_ (# of additional pages)

**CERTIFICATE:** I declare under penalties in Sec. 91.143, Texas Natural Resources Code, that I am authorized to file this application, that this application was prepared by me or under my supervision and direction, and that the data and facts stated therein are true, correct, and complete to be the best of my knowledge. I certify that all requests for related required approvals from other affected State Agencies have been submitted and that I understand that any authorization granted by Commission approval of this application is contingent upon the approvals from other affected State Agencies being obtained.

Signature: Vicki L. Gotcher Title: Regulatory Analyst Date: 02/09/2015  
Operator E-mail Address: vgotcher@concho.com Operator Phone No. (432)818-2249  
(Optional - If provided, e-mail address will become part of this public record.)

Commingling Permit No. 4231 Approval date: 03/09/15 Approved by: [Signature]

DER VICKI ON 03/24/15 (COG OPERATING)

Commingle Permit Applicant: COG OPERATING LLC  
 RRC District: 08  
 RRC Form P-17 Permit No 6281  
 RRC P-17 Application Date 2/9/2015

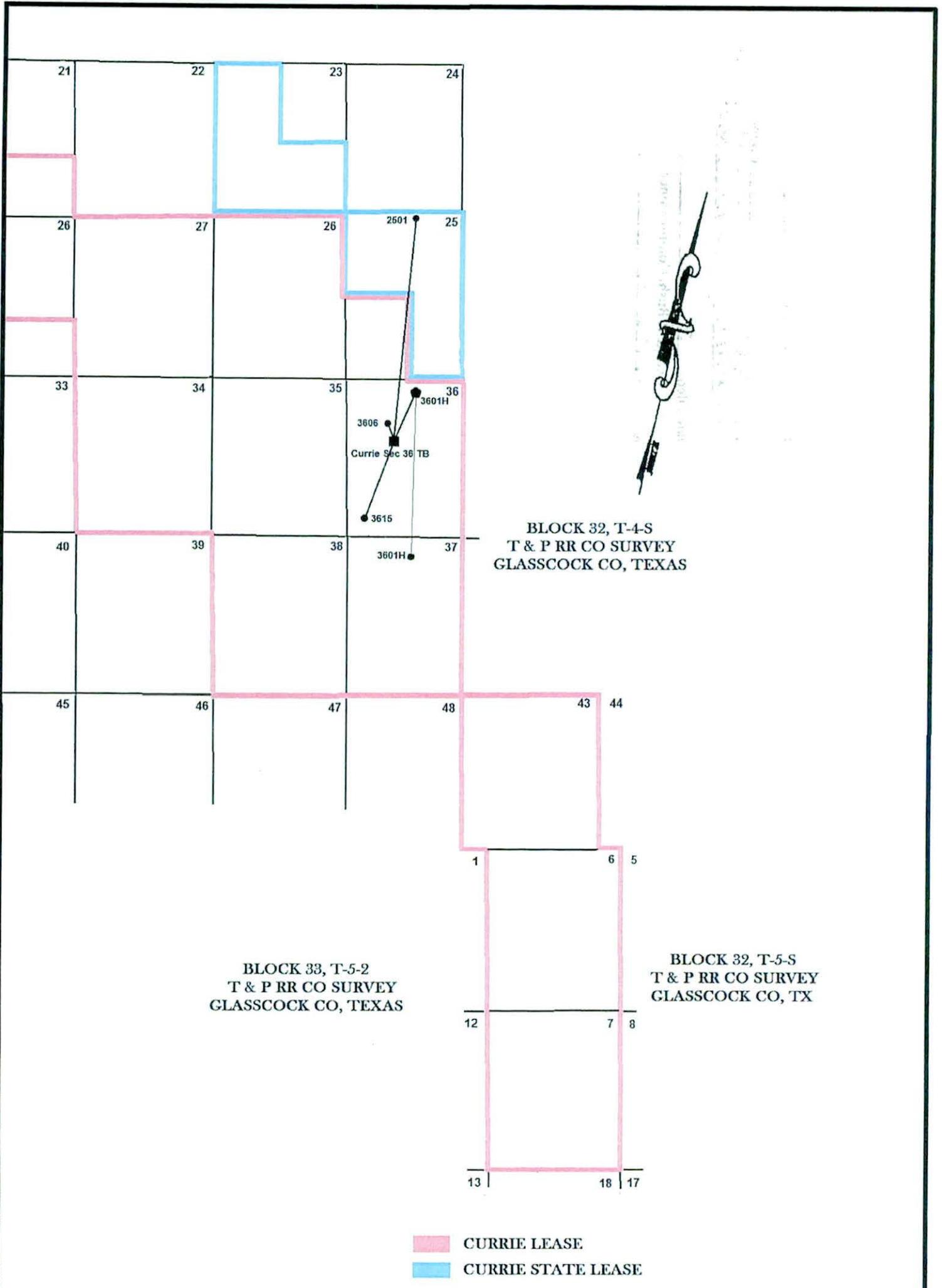
REPORTS OIL PRODUCTION ON FORM PR; HOWEVER, ALL STATE LEASES ARE NOT EQUIPPED WITH AN OIL AND GAS SEPARATOR WITH OIL AND GAS SEPARATELY METERED BEFORE COMMINGLING WITH OTHER LEASES.

SEE NOTE 3													SEE NOTE 1		SEE NOTE 2		
P-17 RRC Request Status	Lease Commingle Facility Name	RRC Field Name	RRC Lease Name	RRC Well No.	RRC Lease/ID No.	Wellbore 10 Digit API No.	RRC Lease Form P4 Operator	RRC Lease Type (Oil/Gas)	Gas Production MCF/Month	Oil Production STB/Month	RRC Production Month	RRC Production Source	RRC Well Status	State Mineral Lease No.	GLO or Private Unit Name (If Unitized)	GLO Unit No.	State Mineral Lease or Unit Net Royalty Interest
Pend	Currie Sec 36 Tank Battery	Garden City, S. (Wolfcamp)	Currie	3601H	37789	42-173-35476	COG	Oil	6833	1711	Feb-15	RRC PR-Alloc	Active				
Pend	Currie Sec 36 Tank Battery	Garden City, S. (Wolfcamp)	Currie	3615	37789	42-173-33413	COG	Oil	1022	202	Feb-15	RRC PR-Alloc	Active				
Pend	Currie Sec 36 Tank Battery	Garden City, S. (Wolfcamp)	Currie	3606	37789	42-173-34069	COG	Oil	4899	2211	Feb-15	RRC PR-Alloc	Active				
Pend	Currie Sec 36 Tank Battery	Garden City, S. (Wolfcamp)	Currie State	2501	41335	42-173-34069	COG	Oil	3657	1528	Feb-15	RRC PR-Alloc	Active	MF112153	Currie State #2501	5160	0.00094550
SEE NOTE 3													SEE NOTE 1		SEE NOTE 2		

- NOTES:
1. ENTER THE STATE MINERAL LEASE NUMBER WHERE THE PRODUCTIVE FIELD INTERVAL OF THE WELL IS LOCATED WITHIN THE PHYSICAL BOUNDARY OF THE LEASE.  
 IF, DUE TO DEPTH LIMITATIONS, SEVERAL LEASES EXIST WITHIN A COMMON WELLBORE, THEN ENTER THE MINERAL LEASE NUMBER FOR THE PRODUCING FIELD INTERVAL.  
 IF THE WELLBORE OF A HORIZONTAL WELL OR DIRECTIONAL WELL TRAVERSES MULTIPLE STATE MINERAL LEASES THEN ENTER EACH STATE MINERAL LEASE ASSOCIATED WITH THE PRODUCING FIELD INTERVAL IN ORDER FROM THE HEAL (FIRST TAKE POINT) TO THE TOE (LAST TAKE POINT) OF THE WELL AND ENTER THE GLO UNIT NAME, NUMBER, AND UNIT NRI IN THE APPROPRIATE COLUMNS.
  2. ENTER THE STATE MINERAL LEASE INTEREST UNLESS THE WELL IS ASSOCIATED WITH A GLO POOLED UNIT THEN ENTER THE POOLED UNIT NET ROYALTY INTEREST.
  3. IF RRC LEASE ID PENDING ASSIGNMENT THEN ENTER "DP" FOLLOWED BY THE RRC DRILLING PERMIT NO. FOR THE COMPLETED INTERVAL.



CURRIE SEC. 36 TANK BATTERY



**COG OPERATING LLC**  
 CURRIE SEC. 36 TANK BATTERY  
 Currie State Lease  
 Currie Lease  
 Glasscock County, Texas



NY

NY  
NY  
NY

File No. MF112153

REQUEST TO COMMINGLE 4/29/15 County  
CURRIE 'E' CURRIE STATE

Date Filed: 8/24/2016

George P. Bush, Commissioner

By MT SCOTT

**Matthew Scott - Currie E State**

---

**From:** Tami Parker <TParker@concho.com>  
**To:** "matthew.scott@glo.texas.gov" <matthew.scott@glo.texas.gov>  
**Date:** 5/28/2015 8:25 AM  
**Subject:** Currie E State  
**CC:** "Ana Maria Marsland-Griffith (anamaria@texasenergylaw.com)" <anamaria@te...>

---

Matthew,

We spoke by telephone last week, you requested an e-mail regarding COG's intention with regard to the Currie E State Commingle permits that are pending with your office. It is our intention to file paperwork to reflect each +/- 160 ac unit as a separate RRC Lease which will result in receiving new Lease ID # assignment. This will result in multiple RRC forms being filed, new GLO commingle permits which will be forwarded to you in draft form to make sure you are ok with what/how we are correcting these leases.

Please advise if you need additional information.

Thank You  
Have a Great Day

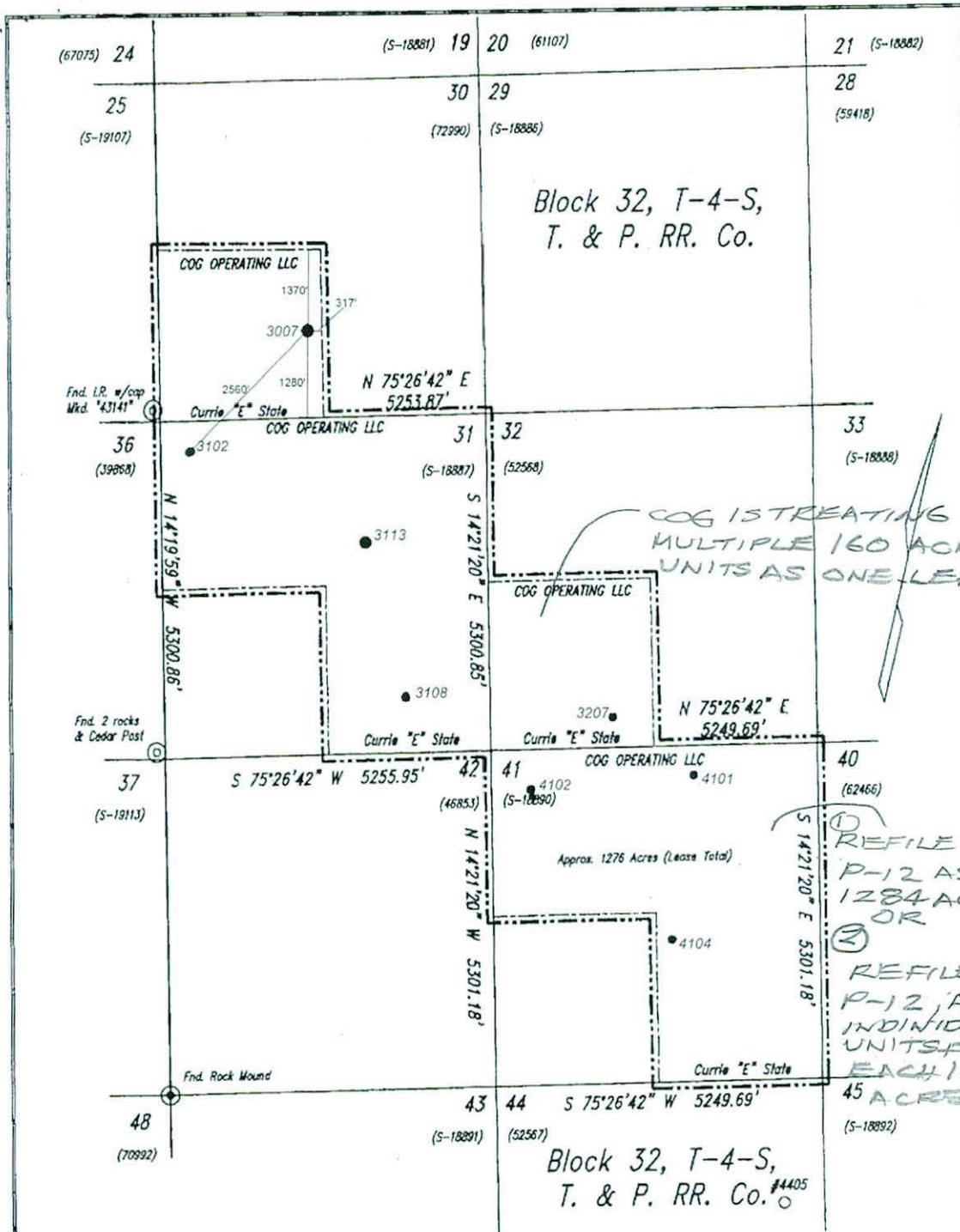
TX Basins Regulatory has a new e-mail: [regulatorytxbasin@concho.com](mailto:regulatorytxbasin@concho.com)

**Tami Parker | Lead Regulatory Analyst | TX Basins Team | COG Operating, LLC**  
Fasken Tower-1439 | 600 W. Illinois Avenue | Midland, Texas 79701  
Main #: 432.683.7443 | Direct #: 432.221.0327 | Cell #: 432.296-2053 | [tparker@concho.com](mailto:tparker@concho.com)



**CONFIDENTIALITY NOTICE:** The information in this email may be confidential and/or privileged. If you are not the intended recipient or an authorized representative of the intended recipient, you are hereby notified that any review, dissemination or copying of this email and its attachments, if any, or the information contained herein, is prohibited. If you have received this email in error, please immediately notify the sender by return email and delete this email from your system. Thank you.

212



Note: Survey Reconstruction Made in the Office of Luchini and Mertz Land Surveying Company.  
 Note: All bearings and coordinates shown are based on the Texas Coordinate System of 1927, Central Zone.  
 A combined grid factor of 0.9999832 must be divided into all distances to obtain a true horizontal distance.  
 Note: Example: (S-99999) indicates General Land Office file number.

STATE OF TEXAS  
 REGISTERED  
 STEVEN L. PREWITT  
 5106  
 PROFESSIONAL LAND SURVEYOR

March 2011  
 Currie "E" State Lease

PROFESSIONAL LAND SURVEYORS  
 LUCHINI & MERTZ  
 Boundary Surveys  
 Well Locations

Railroad Commission Permit Plat

COG OPERATING LLC  
 Currie "E" State Lease  
 the SW/4 of Section 30, the N/2 & SE/4 of Section 31,  
 the SW/4 of Section 32 & the N/2 & SE/4 of Section 41,  
 Block 32, T-4-S, T. & P. RR. Co.,  
 Glasscock County, Texas

Scale: 1" = 2000'



 <span style="float: right;">Welcome, Mary Bamstone Logout X</span>											
<span style="float: left;">Land Surface Mineral Customers Manage Training</span> <span style="float: right;">Search: Unit X</span>											
<span>Back to Search</span> <span>Details</span> <span>Excel Export</span> <span style="float: right;">Records Searched: 13</span>											
#	Unit Number	County Name	Survey Name	Land Type	Control Number	Effective Date	Status	Status Date	Type	Name	
<input type="checkbox"/>	1	5160	Glasscock	Highways & Pub	56	56-030239	08/06/2011	Active	08/06/2011	Unit	Currie State #2508
<input type="checkbox"/>	2	5286	Wise	Wise County Ro:	65	65-902492	03/02/2011	Active	03/02/2011	Unit	Currie-Frank B (Sa) A 1h
<input type="checkbox"/>	3	5669	Glasscock	Highways & Pub	56	56-030239	04/06/2011	Active	04/06/2011	Unit	Currie "e" #3113
<input type="checkbox"/>	4	6062	Glasscock	Highways & Pub	56	56-030239	06/15/2012	Producing	06/15/2012	Unit	Currie "e" State 3102
<input type="checkbox"/>	5	6683	Glasscock	Highways & Pub	56	56-030239	03/25/2013	Pending	01/15/2014	Unit	Currie "E" State #3108 Pooled Unit
<input type="checkbox"/>	6	6684	Glasscock	Highways & Pub	56	56-030239	08/06/2013	Pending	01/15/2014	Unit	Currie "E" State #4101 Pooled Unit
<input type="checkbox"/>	7	6685	Glasscock	Highways & Pub	56	56-030239	08/06/2013	Pending	01/15/2014	Unit	Currie "E" State #4102 Pooled Unit
<input type="checkbox"/>	8	6691	Glasscock	Highways & Pub	56	56-030239	08/06/2013	Pending	01/23/2014	Unit	Currie "E" State #4104
<input type="checkbox"/>	9	6785	Glasscock	Highways & Pub	56	56-030239	10/24/2013	Active	03/27/2014	Unit	Currie "A" State #4505
<input type="checkbox"/>	10	6813	Glasscock	Highways & Pub	56	56-030239	11/08/2013	Pending	04/14/2014	Unit	Currie "E" State #3207
<input type="checkbox"/>	11	6814	Glasscock	Highways & Pub	56	56-030239	08/11/2013	Pending	04/14/2014	Unit	Currie "A" State #4003
<input type="checkbox"/>	12	6815	Glasscock	Highways & Pub	56	56-030239	10/24/2013	Pending	04/14/2014	Unit	Currie "A" State #4510
<input type="checkbox"/>	13	7429	Glasscock	Highways & Pub	56	56-030239	12/26/2014	Active	03/20/2015	Unit	Currie State 2501

DISTRICT> 08 OIL PRORATION SCHEDULE SCHEDULE> 05 / 15  
 FIELD > GARDEN CITY, S. (WOLFCAMP) # 33998 500 TYPE FIELD REGULAR  
 OPERATOR> COG OPERATING LLC # 166150  
 LEASE > CURRIE 'A' STATE # 44645  
 MOVABLE BAL> 684  
 LSE DLY TOT> O(PRO) 93 O(EX) G(PRO) 8232 G(EX)  
 LSE MO. ALLOW TOTAL> OIL 2883 GAS LIMIT 255192 PD WELLS/TOTAL ACRES

4 637.00

UNIT/ WELL #	API NUMBER	POTEN- TIAL	GAS/OIL RATIO	ACRES	DAILY ALLOWABLE OIL / GAS	TYPE WELL	LOWEST PERF
4003	173 35858	27.0	2851	160.00	27# / 2060	PRODUCING	9140
4505	173 35891	18.0	3944	160.00	18# / 2060	PRODUCING	9110
4508	173 36253	30.0	4833	157.00	30# / 2052	PRODUCING	9020
4510	173 35965	18.0	6250	160.00	18# / 2060	PRODUCING	9090

GO TO WELL # < > PF1=HELP PF4=PREV WELLS PF5=NEXT WELLS PF6=FIELD  
 PF7=LEASE INQUIRY PF8=P-4 PF9=LEDGER PF10=W-10 PF11=WELL REMARKS PF12=W-2  
 TO SELECT A UNIT OR WELL, PLACE THE CURSOR TO THE LEFT OF THE WELL OR UNIT.

DISTRICT> 08 OIL PRORATION SCHEDULE SCHEDULE> 05 / 15  
 FIELD > GARDEN CITY, S. (WOLFCAMP) # 33998 500 TYPE FIELD REGULAR  
 OPERATOR> COG OPERATING LLC # 166150  
 LEASE > CURRIE "E" STATE # 41832  
 MOVABLE BAL> 986  
 LSE DLY TOT> O(PRO) 120 O(EX) G(PRO) 16494 G(EX)  
 LSE MO. ALLOW TOTAL> OIL 3720 GAS LIMIT 511314 PD WELLS/TOTAL ACRES

8 1284.00

UNIT/ WELL #	API NUMBER	POTEN- TIAL	GAS/OIL RATIO	ACRES	DAILY ALLOWABLE OIL / GAS	TYPE WELL	LOWEST PERF
3007	173 36236	12.0	3166	164.00	12# / 2074	PRODUCING	9295
3102	173 35108	7.0	5285	160.00	7# / 2060	PRODUCING	9235
3108	173 35472	5.0	7200	160.00	5# / 2060	PRODUCING	9220
3113	173 34028	12.0	3250	160.00	12# / 2060	PRODUCING	9220
3207	173 35964	12.0	3083	160.00	12# / 2060	PRODUCING	9170
4101	173 35870	13.0	3076	160.00	13# / 2060	PRODUCING	9150
4102	173 35917	21.0	9666	160.00	21# / 2060	PRODUCING	9190
4104	173 35662	38.0	4842	160.00	38# / 2060	PRODUCING	9170

GO TO WELL # < > PF1=HELP PF4=PREV WELLS PF5=NEXT WELLS PF6=FIELD  
 PF7=LEASE INQUIRY PF8=P-4 PF9=LEDGER PF10=W-10 PF11=WELL REMARKS PF12=W-2  
 TO SELECT A UNIT OR WELL, PLACE THE CURSOR TO THE LEFT OF THE WELL OR UNIT.

File No. MF112153

GLASSCOCK County  
CONCHO EMAIL 5/28/15 TO  
CREATE RELEASE FOR EACH UNIT.

Date Filed: 8/24/2016

George P. Bush, Commissioner

By MTSCOTT



VICKIE L GOTCHER  
Regulatory Analyst



October 7, 2015

Certified Mail – 91 7199 9991 7035 2751 8866

Matthew T. Scott  
Texas General Land Office  
P. O. Box 12873  
Austin, TX 78711-2873

RE: Permission to Surface Commingle Production from HROW MF112153, with the Currie 'E' Lease, a Non-GLO lease

Dear Mr. Scott:

Please find enclosed the data required for COG Operating LLC to obtain permission to Surface Commingle HROW MF112153, with the Currie 'E' lease.

The wells involved in this commingle are as follows:

Currie 'E' #4115, #4203, #4204, #4205, #4207 – RRC#38162

Currie EF State #4102 – RRC# 46758 GLO Unit #6685

Currie EH State #4104 – RRC# 46760, GLO Unit #6691

6768

If you have any questions, please contact me at (432) 818-2249; e-mail at [vgotcher@concho.com](mailto:vgotcher@concho.com) or Terry Burkes at (432) 818-2204; e-mail [tburkes@concho.com](mailto:tburkes@concho.com).

Sincerely,

A handwritten signature in blue ink that reads "Vickie L. Gotcher".

Vickie L Gotcher  
COG Operating LLC

vg/enclosures

<input type="checkbox"/> New <input checked="" type="checkbox"/> Amended Existing Permit No. <u>6768</u>  Effective Month/Year of Requested Exception: <u>07 / 2015</u>	<b>RAILROAD COMMISSION OF TEXAS</b> <b>OIL AND GAS DIVISION</b>  <b>APPLICATION FOR EXCEPTION TO STATEWIDE RULES (SWR) 26 AND/OR 27</b>  <u>CURRIE E. SEC. 42</u>	DBC0308	<b>FORM P-17</b> Eff 01/2008 <b>\$150 FILING FEE</b>
			District <u>08</u> County <u>Glasscock</u>

**SECTION 1. OPERATOR INFORMATION (See instructions under "Who Files")**

Operator Name (as shown on P-5): COG OPERATING LLC Operator P-5 No. 166150

Operator Address: 600 W ILLINOIS AVE City, State, Zip: MIDLAND TX 79701

**SECTION 2. GATHERER (of oil or condensate) INFORMATION (not required if 3b is checked)**

Gatherer Name (as shown on P-5): PLAINS MARKETING LP Gatherer P-5 No. 667883

Gatherer Address: P O BOX 4648 City, State, Zip: HOUSTON TX 77210

Gatherer E-mail Address: bajenkins@paalp.com  
 (Optional - If provided, e-mail address will become part of this public record.)

**SECTION 3. APPLICATION APPLIES TO (CHECK ALL THAT APPLY):**  OIL  CASINGHEAD GAS  GAS WELL GAS  CONDENSATE

a.  Gas well full well stream into common separation and storage facility with liquids reported on Form PR.  
 b.  Gas well full well stream into a gasoline plant/common separation and storage facility with liquids reported on Form R-3 Serial # \_\_\_\_\_ (If full well stream is checked, the results of periodic tests to determine the number of stock tank barrels of liquid hydrocarbons recovered per 1,000 standard cubic feet of gas must be reported on Form G-10 in accordance with SWR 55. Attach an explanation of any exceptions to SWR 55.)  
 c.  Condensate and low-pressure Gas Well Gas are commingled into low-pressure separation and storage facilities.  
 d.  This request is for off lease:  storage  separation  metering.  
 e.  This exception is for common storage.  
 f.  This exception is for common separation.  
 g.  This exception is for casinghead gas metering by:  deduct metering  allocation by well test  other \_\_\_\_\_  
 h.  This exception is for gas well gas metering by:  deduct metering  allocation by well test  other \_\_\_\_\_  
 i.  This request is an exception to measure liquid with a: (check one below)  
 a Turbine Meter or  a Coriolis Meter (an additional \$150.00 and a letter of explanation is required for each exception.)

**SECTION 4. NOTICE REQUIREMENTS AND ALLOCATION METHOD. (CHECK ALL THAT APPLY)** The following questions determine if 21-day notice is required and applies to all wells proposed for commingling:

a.  The production is measured separately from all leases or individual wells before commingling. (Notice not required; Skip to Section 5)  
 b.  The royalty interests and working interests are the same with respect to identity and percentage. (Notice not required)  
 c.  The royalty interests and working interests are not the same with respect to identity and percentage. (Notice required)  
 If b. or c. checked, production will be allocated by:  W-10 (oil)  W-2 retest (oil)  PD Meter (oil & condensate)  G-10 (gas)  
 d.  The wells produce from multiple reservoirs. (Notice required unless 4e. or 4f. apply; see instructions for additional requirements)  
 e.  The wells produce from multiple reservoirs and have SWR10 exceptions. (Notice not required)  
 f.  The wells produce from multiple reservoirs and are measured separately from each reservoir. (Notice not required)  
 g.  Any one of the wells proposed for commingling produces from a Commission-designated reservoir for which special field rules have been adopted. (Notice required)

**SECTION 5.**  Wells proposed for commingling have an operator's name other than the applicant listed in SECTION 1. (See instructions)

**SECTION 6.**  For oil production, the production from all oil wells on each oil lease is to be commingled. (See instructions)

**SECTION 7. IDENTIFY LEASES AS SHOWN ON COMMISSION RECORDS (attach additional pages as needed)**

DISTRICT	RRC IDENTIFIER	ACTION	LEASE AND FIELD NAME	WELL NO.
08	38162	<input checked="" type="checkbox"/> Existing <input type="checkbox"/> Add <input type="checkbox"/> Delete	Currie 'E' Garden City, S. (Wolfcamp)	4115
08	38162	<input checked="" type="checkbox"/> Existing <input type="checkbox"/> Add <input type="checkbox"/> Delete	Currie 'E' Garden City, S. (Wolfcamp)	4203
08	38162	<input checked="" type="checkbox"/> Existing <input type="checkbox"/> Add <input type="checkbox"/> Delete	Currie 'E' Garden City, S. (Wolfcamp)	4204
08	38162	<input checked="" type="checkbox"/> Existing <input type="checkbox"/> Add <input type="checkbox"/> Delete	Currie 'E' Garden City, S. (Wolfcamp)	4205

**ATTACH ADDITIONAL PAGES AS NEEDED.**  No additional pages  Additional pages \_\_\_\_\_ (# of additional pages)

**CERTIFICATE:** I declare under penalties in Sec. 91.143, Texas Natural Resources Code, that I am authorized to file this application, that this application was prepared by me or under my supervision and direction, and that the data and facts stated therein are true, correct, and complete to be the best of my knowledge. I certify that all requests for related required approvals from other affected State Agencies have been submitted and that I understand that any authorization granted by Commission approval of this application is contingent upon the approvals from other affected State Agencies being obtained.

Signature Vickie L. Gotcher Title Vickie Gotcher - Reg. Analyst Date 09/29/2015  
 Operator E-mail Address: vgotcher@concho.com Operator Phone No. (432)683-7443  
 (Optional - If provided, e-mail address will become part of this public record.)

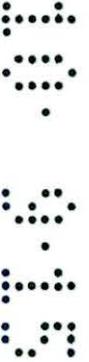
**RRC USE ONLY**

Commingling Permit No. \_\_\_\_\_ Approval date: \_\_\_\_\_ Approved by: \_\_\_\_\_



## Currie E Sec. 42 TB

Currie 'E' #4115  
Currie 'E' #4203  
Currie 'E' #4204  
Currie 'E' #4205  
Currie 'E' #4207  
Currie EF State #4102  
Currie EH State #4104



## Process Flow Narrative

Oil, gas and water from individual wells will be produced to the Header. From there, individual well streams can be diverted to either the Test Separator or to the Production Separator.

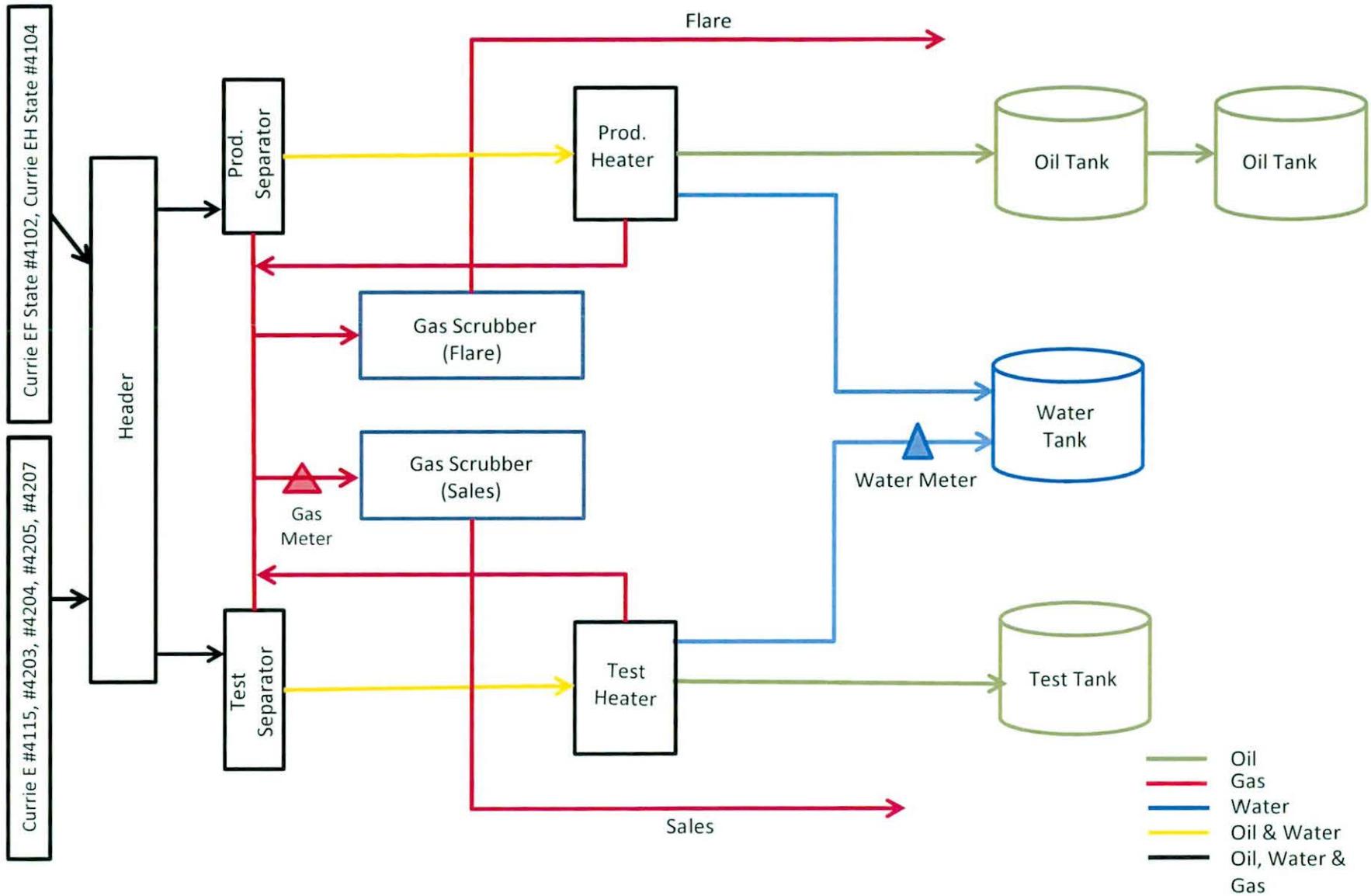
For test purposes, after separation in the 2-phase Test Separator, gas will flow through the gas meter to be measured and then to the 2-phase gas scrubber. After the 2-phase gas scrubber, the gas will flow to the gas sales meter for measurement and sales or to the flare line. Oil and water will go to the Test Heater for separation. After separation, any remaining gas will flow through the gas meter to the 2-phase gas scrubber and then to sales, or to the 2-phase gas scrubber for the flare line. The oil will be sent to the oil tanks to be gauged and measured and the water will be metered and sent to the water tanks.

For wells not in test, they will flow to the Production Separator. Gas will be sent to the 2-phase Gas Scrubber and then on to the sales line or the 2-phase Gas Scrubber and to the flare line. Oil is sent to the oil tanks and water is sent to the water tanks.

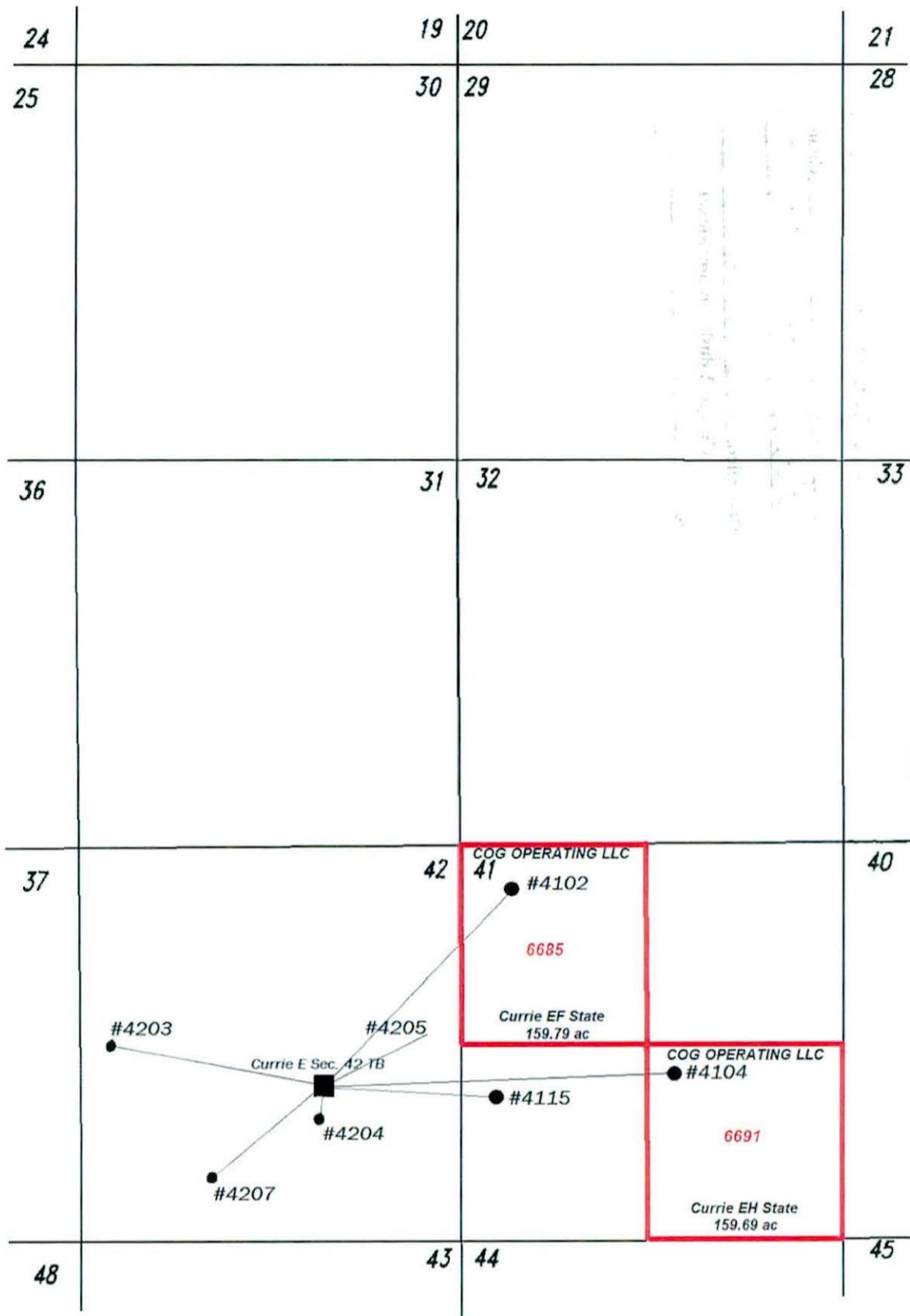
## Allocation Method

Oil, gas and water production will be allocated daily to individual wells based on well tests. Individual well test values for oil, gas and water, along with daily oil and water tank straps and gas sales meter volumes will be entered into our in-house production management software. The software will then allocate the total battery oil, gas and water volumes back to the well level based on the last well test from each well. Monthly oil and gas sales will be allocated based on the sum of daily allocated well production.

# CURRIE E SEC. 42 TANK BATTERY







**COG OPERATING LLC**  
**Currie E Sec 42 TB**  
 Sec 42, Blk 32, T-4-S  
 T & P RR Co  
 Glasscock County, TX

310 01

49

File No. MF112153

GLASSCOCK County  
REQUEST TO COMMINGLE  
CURRIE 'E', 'EE', 'EH' UNITS

Date Filed: 8/26/2014

George P. Bush, Commissioner

By MT SCOTT



VICKIE L GOTCHER  
Regulatory Analyst

October 6, 2015

Certified Mail – 91 7199 9991 7035 2751 8910

Matthew T. Scott  
Texas General Land Office  
P. O. Box 12873  
Austin, TX 78711-2873

RE: Permission to Surface Commingle Production from HROW MF112153, Unit No. 7654,  
with the Currie 'E' North Lease a Non-GLO lease

Dear Mr. Scott:

Please find enclosed the data required for COG Operating LLC to obtain permission to Surface Commingle HROW MF112153, with the Currie 'E' North lease.

The wells involved in this commingle are as follows:

Currie 'E' North #2901, #2903, #2914, #3005, #3008, #3010 – RRC #44558

Currie EA State #3007 – RRC# 46753

*7632*

If you have any questions, please contact me at (432) 818-2249; e-mail at [vgotcher@concho.com](mailto:vgotcher@concho.com) or Terry Burkes at (432) 818-2204; e-mail [tburkes@concho.com](mailto:tburkes@concho.com).

Sincerely,

A handwritten signature in blue ink that reads "Vickie L. Gotcher".

Vickie L Gotcher  
COG Operating LLC

vg/enclosures

<input type="checkbox"/> New <input checked="" type="checkbox"/> Amended Existing Permit No. <u>7032</u>  Effective Month/Year of Requested Exception: <u>07</u> / <u>2015</u>	<b>RAILROAD COMMISSION OF TEXAS</b> <b>OIL AND GAS DIVISION</b>  <b>APPLICATION FOR EXCEPTION TO STATEWIDE RULES (SWR) 26 AND/OR 27</b>  <u>CURRIE E NORTH SEC. 30</u>	DBC0308  FORM P-17 Eff 01/2008 \$150 FILING FEE	District <u>08</u>  County <u>GLASSCOCK</u>
--	---	---	---

**SECTION 1. OPERATOR INFORMATION (See instructions under "Who Files")**

Operator Name (as shown on P-5): COG OPERATING LLC Operator P-5 No. 166150  
 Operator Address: 600 W ILLINOIS AVE City, State, Zip: MIDLAND TX 79701

**SECTION 2. GATHERER (of oil or condensate) INFORMATION (not required if 3b is checked)**

Gatherer Name (as shown on P-5): PLAINS MARKETING, L.P. Gatherer P-5 No. 667883  
 Gatherer Address: PO BOX 4648 City, State, Zip: HOUSTON TX 77210-4648  
 Gatherer E-mail Address: BAJENKINS@PAALP.COM  
 (Optional - If provided, e-mail address will become part of this public record.)

**SECTION 3. APPLICATION APPLIES TO (CHECK ALL THAT APPLY):**  OIL  CASINGHEAD GAS  GAS WELL GAS  CONDENSATE

- a.  Gas well full well stream into common separation and storage facility with liquids reported on Form PR.
- b.  Gas well full well stream into a gasoline plant/common separation and storage facility with liquids reported on Form R-3 Serial # \_\_\_\_\_ (If full well stream is checked, the results of periodic tests to determine the number of stock tank barrels of liquid hydrocarbons recovered per 1,000 standard cubic feet of gas must be reported on Form G-10 in accordance with SWR 55. Attach an explanation of any exceptions to SWR 55.)
- c.  Condensate and low-pressure Gas Well Gas are commingled into low-pressure separation and storage facilities.
- d.  This request is for off lease:  storage  separation  metering.
- e.  This exception is for common storage.
- f.  This exception is for common separation.
- g.  This exception is for casinghead gas metering by:  deduct metering  allocation by well test  other \_\_\_\_\_.
- h.  This exception is for gas well gas metering by:  deduct metering  allocation by well test  other \_\_\_\_\_.
- i.  This request is an exception to measure liquid with a: (check one below)  
 a Turbine Meter or  a Coriolis Meter (an additional \$150.00 and a letter of explanation is required for each exception.)

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- d.  The wells produce from multiple reservoirs. (Notice required unless 4e. or 4f. apply; see instructions for additional requirements)
- e.  The wells produce from multiple reservoirs and have SWR10 exceptions. (Notice not required)
- f.  The wells produce from multiple reservoirs and are measured separately from each reservoir. (Notice not required)
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**SECTION 6.**  For oil production, the production from all oil wells on each oil lease is to be commingled. (See instructions)

**SECTION 7. IDENTIFY LEASES AS SHOWN ON COMMISSION RECORDS (attach additional pages as needed)**

DISTRICT	RRC IDENTIFIER	ACTION			LEASE AND FIELD NAME		WELL NO.
08	41832	<input type="checkbox"/> Existing	<input type="checkbox"/> Add	<input checked="" type="checkbox"/> Delete	Currie E State	Garden City, S. (Wolfcamp)	3007
08	46753	<input type="checkbox"/> Existing	<input checked="" type="checkbox"/> Add	<input type="checkbox"/> Delete	Currie EA State	Garden City, S. (Wolfcamp)	3007
08	44558	<input checked="" type="checkbox"/> Existing	<input type="checkbox"/> Add	<input type="checkbox"/> Delete	Currie E North	Garden City, S. (Wolfcamp)	2903
08	44558	<input checked="" type="checkbox"/> Existing	<input type="checkbox"/> Add	<input type="checkbox"/> Delete	Currie E North	Garden City, S. (Wolfcamp)	3005

**ATTACH ADDITIONAL PAGES AS NEEDED.**  No additional pages  Additional pages \_\_\_\_\_ (# of additional pages)

**CERTIFICATE:** I declare under penalties in Sec. 91.143, Texas Natural Resources Code, that I am authorized to file this application, that this application was prepared by me or under my supervision and direction, and that the data and facts stated therein are true, correct, and complete to be the best of my knowledge. I certify that all requests for related required approvals from other affected State Agencies have been submitted and that I understand that any authorization granted by Commission approval of this application is contingent upon the approvals from other affected State Agencies being obtained.

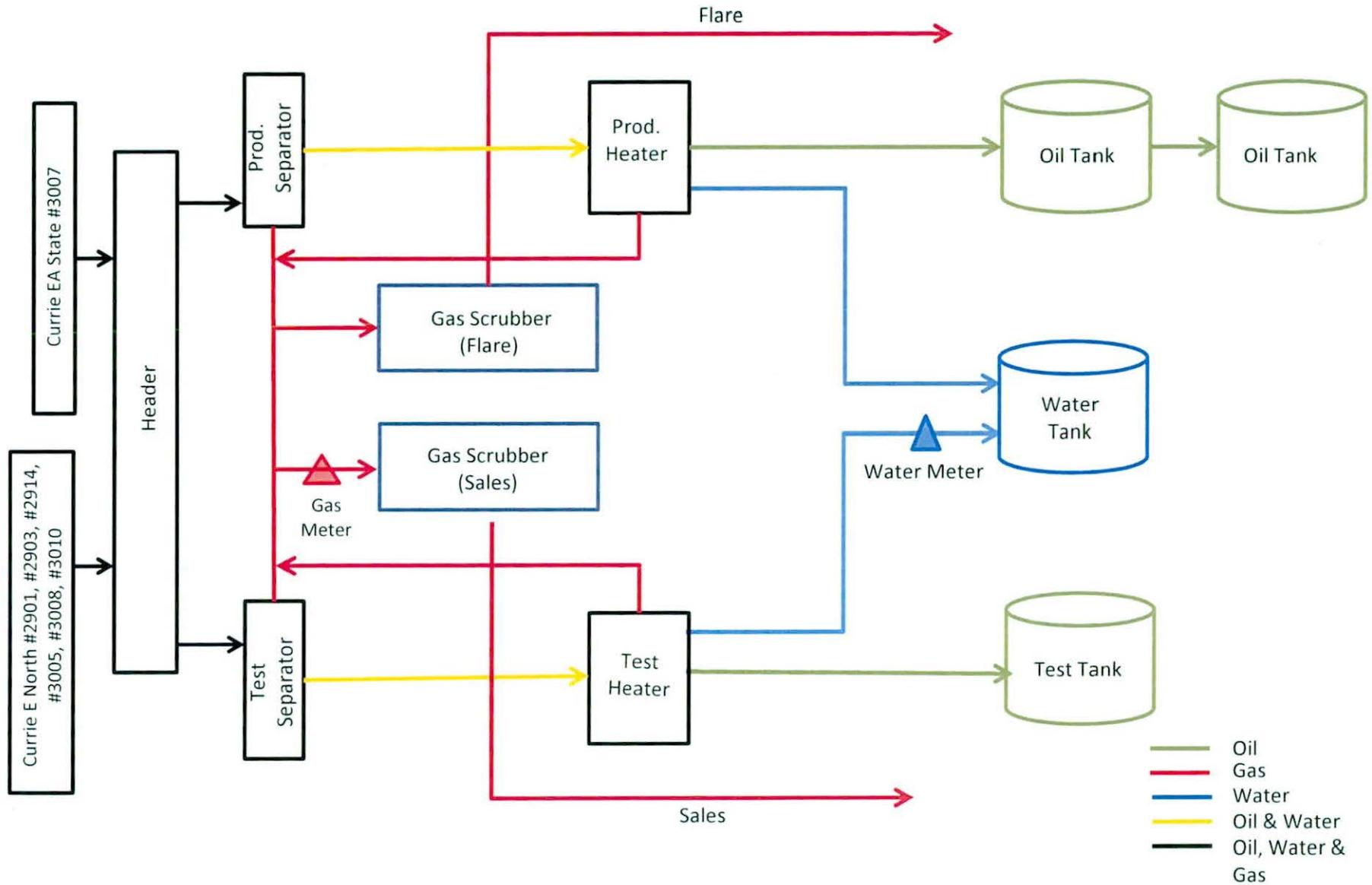
Signature Vickie L. Gotcher Title Vickie Gotcher - Reg. Analyst Date 09/29/2015  
 Operator E-mail Address: vgotcher@concho.com Operator Phone No. (432)683-7443  
 (Optional - If provided, e-mail address will become part of this public record.)

**R R C U S E O N L Y**

Commingling Permit No. \_\_\_\_\_ Approval date: \_\_\_\_\_ Approved by: \_\_\_\_\_



# CURRIE E NORTH SEC. 30 TANK BATTERY



10/6/2015



## Currie E North Sec 30 TB

Currie EA State #3007  
Currie E North #2901  
Currie E North #2903  
Currie E North #2914  
Currie E North #3005  
Currie E North #3008  
Currie E North #3010

### Process Flow Narrative

Oil, gas and water from individual wells will be produced to the Header. From there, individual well streams can be diverted to either the Test Separator or to the Production Separator.

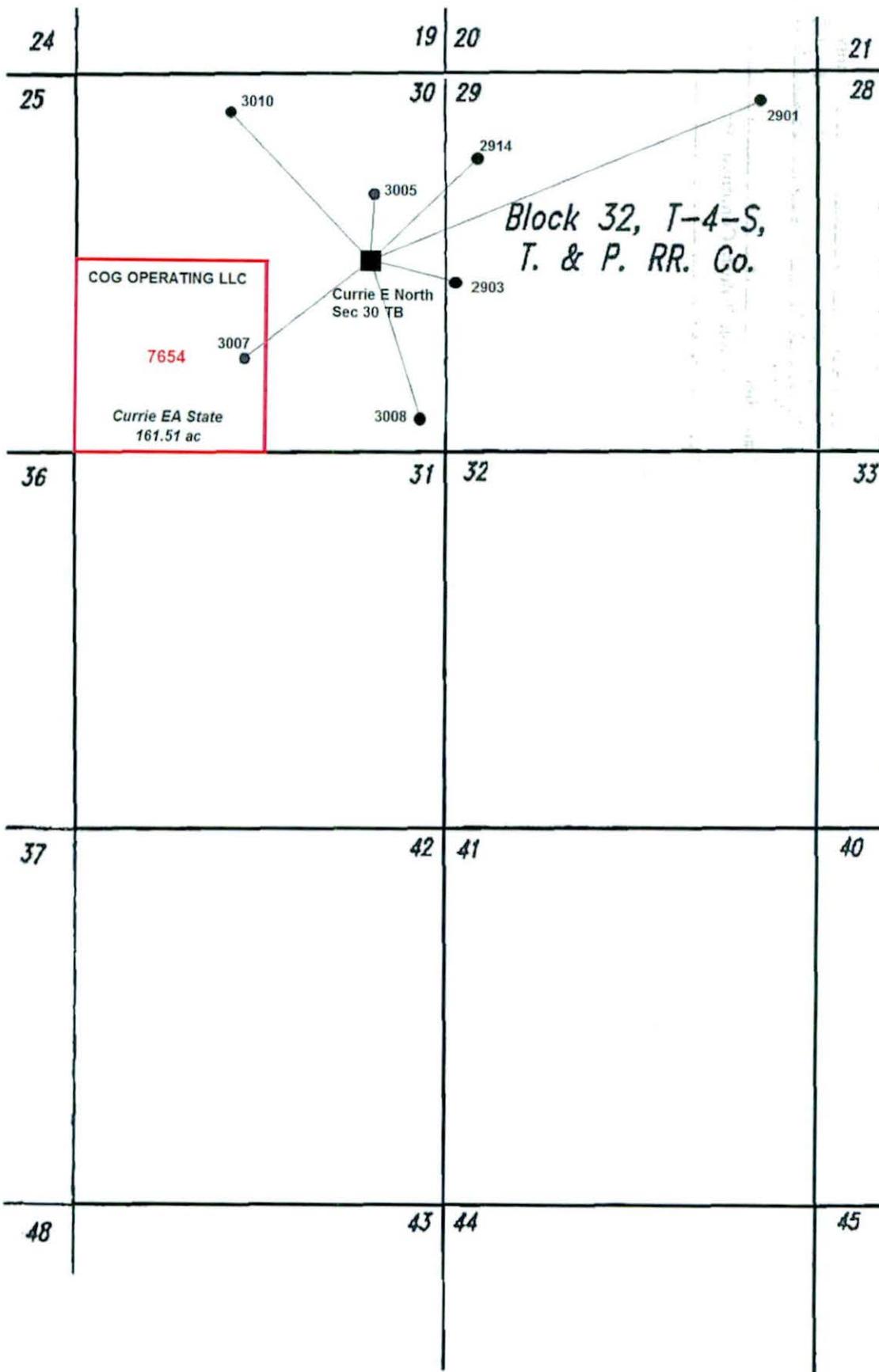
For test purposes, after separation in the 2-phase Test Separator, gas will flow through the gas meter to be measured and then to the 2-phase gas scrubber. After the 2-phase gas scrubber, the gas will flow to the gas sales meter for measurement and sales or to the flare line. Oil and water will go to the Test Heater for separation. After separation, any remaining gas will flow through the gas meter to the 2-phase gas scrubber and then to sales, or to the 2-phase gas scrubber for the flare line. The oil will be sent to the oil tanks to be gauged and measured and the water will be metered and sent to the water tanks.

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### Allocation Method

Oil, gas and water production will be allocated daily to individual wells based on well tests. Individual well test values for oil, gas and water, along with daily oil and water tank straps and gas sales meter volumes will be entered into our in-house production management software. The software will then allocate the total battery oil, gas and water volumes back to the well level based on the last well test from each well. Monthly oil and gas sales will be allocated based on the sum of daily allocated well production.





**COG OPERATING LLC**  
**Currie E North Sec 30 TB**  
 Sec 30, Blk 32, T-4-S  
 T & P RR Co  
 Glasscock County, TX

010 01

50

File No. MF112153

GLASSCOCK County  
REQUEST TO COMMUNE  
CURRIE, NORTH AND EAST  
UNITS

Date Filed: 8/26/2014

George P. Bush, Commissioner

By M.T. SCOTT



VICKIE L GOTCHER  
Regulatory Analyst

October 7, 2015

Certified Mail – 91 7199 9991 7035 2751 8903

Matthew T. Scott  
Texas General Land Office  
P. O. Box 12873  
Austin, TX 78711-2873

RE: Permission to Surface Commingle Production from HROW MF112153, with the  
Currie 'E' Lease, a Non-GLO lease

Dear Mr. Scott:

Please find enclosed the data required for COG Operating LLC to obtain permission to Surface Commingle  
HROW MF112153, with the Currie 'E' lease.

The wells involved in this commingle are as follows:

Currie 'E' #3107 – RRC#38162

Currie EB State #3102 – RRC# 46754, GLO Unit #6062

Currie ED State #3108 – RRC# 46756, GLO Unit #6683

Currie EC State #3113 – RRC# 46755, GLO Unit #5669

6282

If you have any questions, please contact me at (432) 818-2249; e-mail at [vgotcher@concho.com](mailto:vgotcher@concho.com) or Terry  
Burkes at (432) 818-2204; e-mail [tburkes@concho.com](mailto:tburkes@concho.com).

Sincerely,

A handwritten signature in blue ink that reads "Vickie L. Gotcher".

Vickie L Gotcher  
COG Operating LLC

vg/enclosures

<input type="checkbox"/> New <input checked="" type="checkbox"/> Amended Existing Permit No. <u>6282</u>  Effective Month/Year of Requested Exception: <u>07 / 2015</u>	<b>RAILROAD COMMISSION OF TEXAS</b> <b>OIL AND GAS DIVISION</b>  <b>APPLICATION FOR EXCEPTION TO STATEWIDE RULES (SWR) 26 AND/OR 27</b>  <u>CURRIE SEC. 31</u>	DBC0308  FORM P-17 Eff 01/2008 \$150 FILING FEE	District <u>08</u>  County <u>Glasscock</u>
---	---	---	---

**SECTION 1. OPERATOR INFORMATION (See instructions under "Who Files")**

Operator Name (as shown on P-5): COG OPERATING LLC Operator P-5 No. 166150  
 Operator Address: 600 W ILLINOIS AVE City, State, Zip: MIDLAND TX 79701

**SECTION 2. GATHERER (of oil or condensate) INFORMATION (not required if 3b is checked)**

Gatherer Name (as shown on P-5): PLAINS MARKETING, L.P. Gatherer P-5 No. 667883  
 Gatherer Address: PO BOX 4648 City, State, Zip: HOUSTON TX 77210-4648  
 Gatherer E-mail Address: BAJENKINS@PAALP.COM  
 (Optional - If provided, e-mail address will become part of this public record.)

**SECTION 3. APPLICATION APPLIES TO (CHECK ALL THAT APPLY):**  OIL  CASINGHEAD GAS  GAS WELL GAS  CONDENSATE

- a.  Gas well full well stream into common separation and storage facility with liquids reported on Form PR.
- b.  Gas well full well stream into a gasoline plant/common separation and storage facility with liquids reported on Form R-3 Serial # \_\_\_\_\_ (If full well stream is checked, the results of periodic tests to determine the number of stock tank barrels of liquid hydrocarbons recovered per 1,000 standard cubic feet of gas must be reported on Form G-10 in accordance with SWR 55. Attach an explanation of any exceptions to SWR 55.)
- c.  Condensate and low-pressure Gas Well Gas are commingled into low-pressure separation and storage facilities.
- d.  This request is for off lease:  storage  separation  metering.
- e.  This exception is for common storage.
- f.  This exception is for common separation.
- g.  This exception is for casinghead gas metering by:  deduct metering  allocation by well test  other \_\_\_\_\_.
- h.  This exception is for gas well gas metering by:  deduct metering  allocation by well test  other \_\_\_\_\_.
- i.  This request is an exception to measure liquid with a: (check one below)  
 a Turbine Meter or  a Coriolis Meter (an additional \$150.00 and a letter of explanation is required for each exception.)

**SECTION 4. NOTICE REQUIREMENTS AND ALLOCATION METHOD. (CHECK ALL THAT APPLY)** The following questions determine if 21-day notice is required and applies to all wells proposed for commingling:

- a.  The production is measured separately from all leases or individual wells before commingling. (Notice not required; Skip to Section 5)
- b.  The royalty interests and working interests are the same with respect to identity and percentage. (Notice not required)
- c.  The royalty interests and working interests are not the same with respect to identity and percentage. (Notice required)  
 If b. or c. checked, production will be allocated by:  W-10 (oil)  W-2 retest (oil)  PD Meter (oil & condensate)  G-10 (gas)
- d.  The wells produce from multiple reservoirs. (Notice required unless 4e. or 4f. apply; see instructions for additional requirements)
- e.  The wells produce from multiple reservoirs and have SWR10 exceptions. (Notice not required)
- f.  The wells produce from multiple reservoirs and are measured separately from each reservoir. (Notice not required)
- g.  Any one of the wells proposed for commingling produces from a Commission-designated reservoir for which special field rules have been adopted. (Notice required)

**SECTION 5.**  Wells proposed for commingling have an operator's name other than the applicant listed in SECTION 1. (See instructions)

**SECTION 6.**  For oil production, the production from all oil wells on each oil lease is to be commingled. (See instructions)

**SECTION 7. IDENTIFY LEASES AS SHOWN ON COMMISSION RECORDS (attach additional pages as needed)**

DISTRICT	RRC IDENTIFIER	ACTION			LEASE AND FIELD NAME		WELL NO.
08	38162	<input checked="" type="checkbox"/> Existing	<input type="checkbox"/> Add	<input type="checkbox"/> Delete	Currie 'E'	Garden City, S. (Wolfcamp)	3107
08	41832	<input type="checkbox"/> Existing	<input type="checkbox"/> Add	<input checked="" type="checkbox"/> Delete	Currie 'E' State	Garden City, S. (Wolfcamp)	3102
08	41832	<input type="checkbox"/> Existing	<input type="checkbox"/> Add	<input checked="" type="checkbox"/> Delete	Currie 'E' State	Garden City, S. (Wolfcamp)	3113
08	41832	<input type="checkbox"/> Existing	<input type="checkbox"/> Add	<input checked="" type="checkbox"/> Delete	Currie 'E' State	Garden City, S. (Wolfcamp)	3108

**ATTACH ADDITIONAL PAGES AS NEEDED.**  No additional pages  Additional pages 1 (# of additional pages)

**CERTIFICATE:** I declare under penalties in Sec. 91.143, Texas Natural Resources Code, that I am authorized to file this application, that this application was prepared by me or under my supervision and direction, and that the data and facts stated therein are true, correct, and complete to be the best of my knowledge. I certify that all requests for related required approvals from other affected State Agencies have been submitted and that I understand that any authorization granted by Commission approval of this application is contingent upon the approvals from other affected State Agencies being obtained.

Signature Vickie L. Gotcher Title Vickie Gotcher - Reg. Analyst Date 09/29/2015  
 Operator E-mail Address: vgotcher@concho.com Operator Phone No. (432)683-7443  
 (Optional - If provided, e-mail address will become part of this public record.)

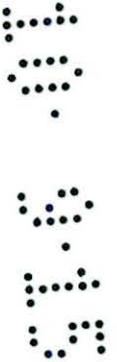
**R R C U S E O N L Y**

Commingling Permit No. \_\_\_\_\_ Approval date: \_\_\_\_\_ Approved by: \_\_\_\_\_



## Currie E Sec. 31 Tank Battery

Currie EB State #3102  
Currie ED State #3108  
Currie EC State #3113  
Currie 'E' #3107



### Process Flow Narrative

Oil, gas and water from individual wells will be produced to the Header. From there, individual well streams can be diverted to either the 2-phase Test Separator or to the Production Separator..

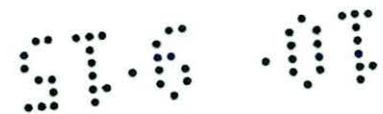
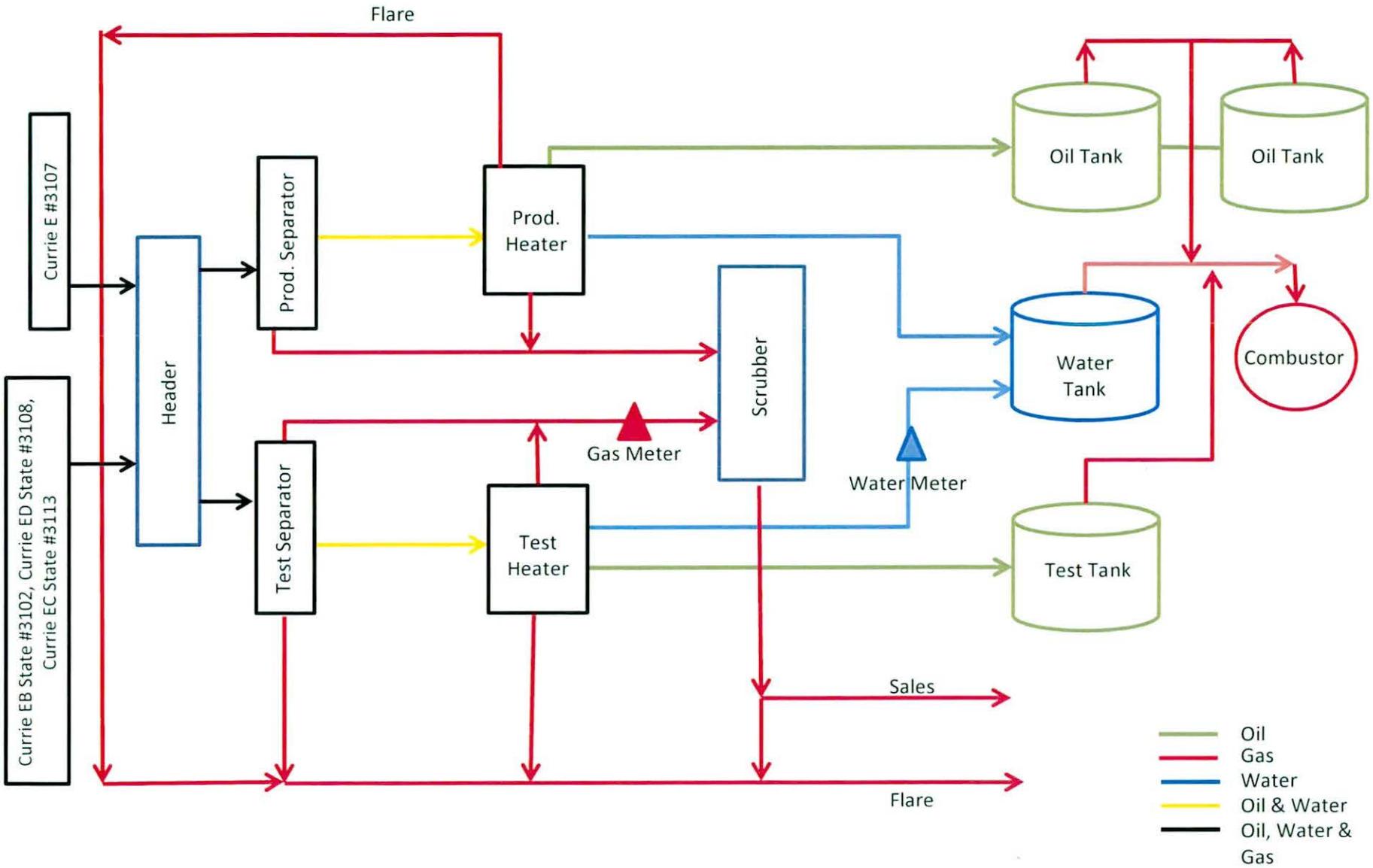
For test purposes, after separation in the 2-phase Test Separator, gas will flow through the gas meter to be measured and then to the 2-phase Gas Scrubber. After the 2-phase Gas Scrubber, the gas will flow to the gas sales meter for sales and measurement or to the flare line. Oil and water will go to the Test Heater for separation. After separation, any remaining gas will flow through the gas meter to the 2-phase Gas Scrubber and then to the sales meter for measurement and sales or to the flare line. The oil is sent to the oil tanks where it will be gauged and measured. The water will be metered and sent to the water tank. Any production vapors that accumulate in the oil and water tanks will go to the Combuster

For wells not in test, they will flow to the Production Separator. Gas will be sent to the 2-phase Gas Scrubber and then on to the sales or flare line. Oil is then sent to the oil tanks and the water is sent to the water tanks.

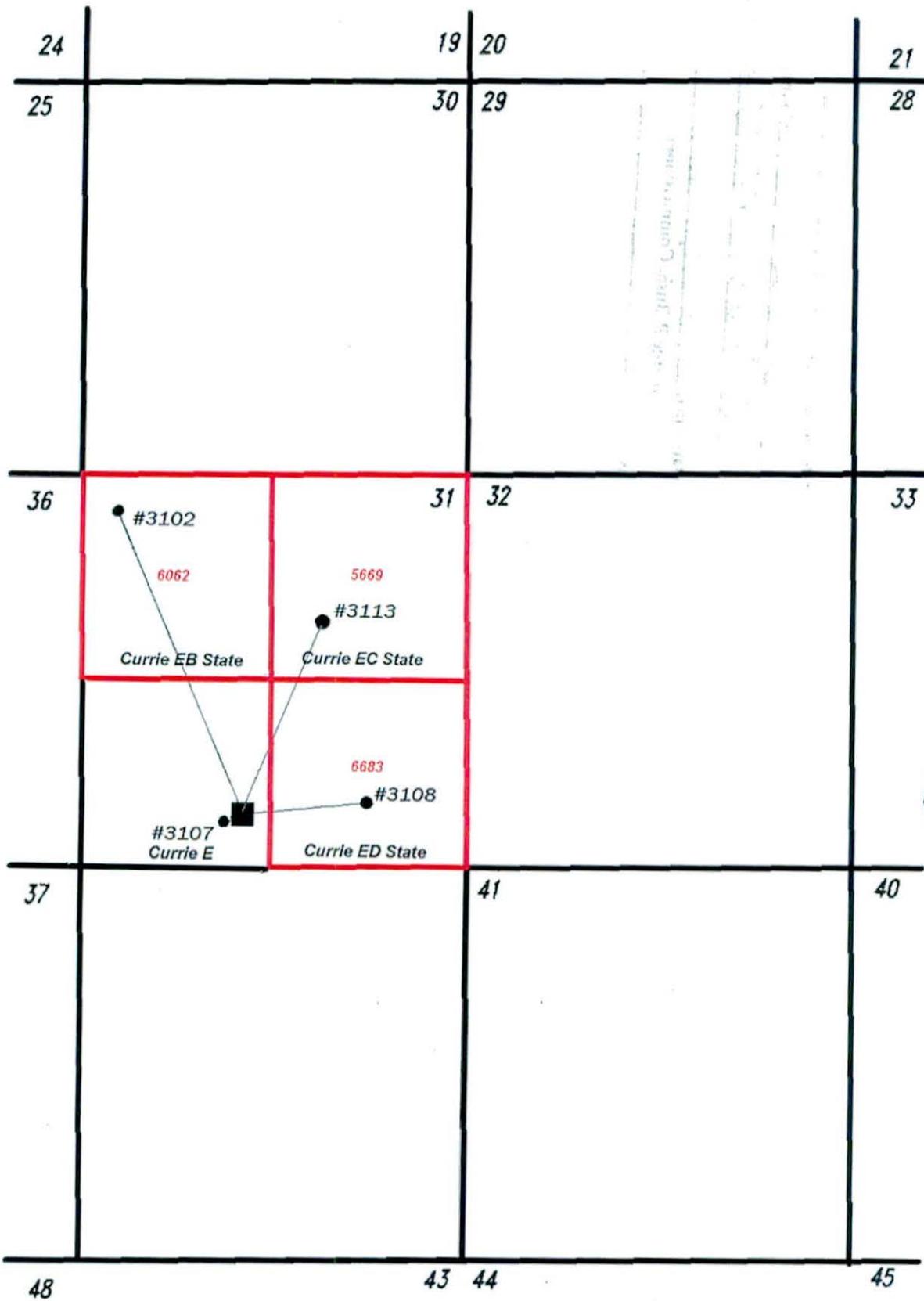
### Allocation Method

Oil, gas and water production will be allocated daily to individual wells based on well tests. Individual well test values for oil, gas and water, along with daily oil and water tank straps and gas sales meter volumes will be entered into our in-house production management software. The software will then allocate the total battery oil, gas and water volumes back to the well level based on the last well test from each well. Monthly oil and gas sales will be allocated based on the sum of daily allocated well production.

# CURRIE E SEC. 31 TANK BATTERY







**COG OPERATING LLC**  
**Currie E Sec 31 TB**  
**Sec 31, Blk 32, T-4-S**  
**T & P RR Co**  
**Glasscock County, TX**

U.S. A.I.

File No. ME1213

GLASSCOCK County  
REQUEST TO COMBINE  
CURRICULUM, FEES, BILLED UNITS

Date Filed: 8/26/2014

George P. Bush, Commissioner

By: M T SCOTT



VICKIE L GOTCHER  
Regulatory Analyst

October 7, 2015

Certified Mail – 91 7199 9991 7035 2751 8897

Matthew T. Scott  
Texas General Land Office  
P. O. Box 12873  
Austin, TX 78711-2873

RE: Permission to Surface Commingle Production from HROW MF112153, with the Currie 'E' North Lease a Non-GLO lease

Dear Mr. Scott:

Please find enclosed the data required for COG Operating LLC to obtain permission to Surface Commingle HROW MF112153, with the Currie 'E' North lease.

The wells involved in this commingle are as follows:

Currie 'E' North #2916, #3201, #3206, #3208 – RRC #44558

Currie EE State #3207 – RRC# 46757 ~~6813~~

Currie EG State #4101 – RRC# 46759 ~~66B4~~

~~6855~~

If you have any questions, please contact me at (432) 818-2249; e-mail at [vgotcher@concho.com](mailto:vgotcher@concho.com) or Terry Burkes at (432) 818-2204; e-mail [tburkes@concho.com](mailto:tburkes@concho.com).

Sincerely,

Vickie L Gotcher  
COG Operating LLC

vg/enclosures

<input type="checkbox"/> New <input checked="" type="checkbox"/> Amended Existing Permit No. <u>6855</u>  Effective Month/Year of Requested Exception: <u>07</u> / <u>2015</u>	<b>RAILROAD COMMISSION OF TEXAS</b> <b>OIL AND GAS DIVISION</b>  <b>APPLICATION FOR EXCEPTION TO STATEWIDE RULES (SWR) 26 AND/OR 27</b>  <u>CURRIE E NORTH SEC 32</u>	DBC0308  FORM P-17 Eff 01/2008 \$150 FILING FEE	District <u>08</u>  County <u>Glasscock</u>
--	--	---	---

**SECTION 1. OPERATOR INFORMATION (See instructions under "Who Files")**

Operator Name (as shown on P-5): COG OPERATING LLC Operator P-5 No. 166150

Operator Address: 600 W ILLINOIS AVE City, State, Zip: MIDLAND TX 79701

**SECTION 2. GATHERER (of oil or condensate) INFORMATION (not required if 3b is checked)**

Gatherer Name (as shown on P-5): PLAINS MARKETING, L.P. Gatherer P-5 No. 667883

Gatherer Address: PO BOX 4648 City, State, Zip: HOUSTON TX 77210-4648

Gatherer E-mail Address: \_\_\_\_\_  
 (Optional - If provided, e-mail address will become part of this public record.)

**SECTION 3. APPLICATION APPLIES TO (CHECK ALL THAT APPLY):**  OIL  CASINGHEAD GAS  GAS WELL GAS  CONDENSATE

a.  Gas well full well stream into common separation and storage facility with liquids reported on Form PR.  
 b.  Gas well full well stream into a gasoline plant/common separation and storage facility with liquids reported on Form R-3 Serial # \_\_\_\_\_ (If full well stream is checked, the results of periodic tests to determine the number of stock tank barrels of liquid hydrocarbons recovered per 1,000 standard cubic feet of gas must be reported on Form G-10 in accordance with SWR 55. Attach an explanation of any exceptions to SWR 55.)  
 c.  Condensate and low-pressure Gas Well Gas are commingled into low-pressure separation and storage facilities.  
 d.  This request is for off lease:  storage  separation  metering.  
 e.  This exception is for common storage.  
 f.  This exception is for common separation.  
 g.  This exception is for casinghead gas metering by:  deduct metering  allocation by well test  other \_\_\_\_\_  
 h.  This exception is for gas well gas metering by:  deduct metering  allocation by well test  other \_\_\_\_\_  
 i.  This request is an exception to measure liquid with a: (check one below)  
 a Turbine Meter or  a Coriolis Meter (an additional \$150.00 and a letter of explanation is required for each exception.)

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 c.  The royalty interests and working interests are not the same with respect to identity and percentage. (Notice required)  
 If b. or c. checked, production will be allocated by:  W-10 (oil)  W-2 retest (oil)  PD Meter (oil & condensate)  G-10 (gas)  
 d.  The wells produce from multiple reservoirs. (Notice required unless 4e. or 4f. apply; see instructions for additional requirements)  
 e.  The wells produce from multiple reservoirs and have SWR10 exceptions. (Notice not required)  
 f.  The wells produce from multiple reservoirs and are measured separately from each reservoir. (Notice not required)  
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**SECTION 7. IDENTIFY LEASES AS SHOWN ON COMMISSION RECORDS (attach additional pages as needed)**

DISTRICT	RRC IDENTIFIER	ACTION			LEASE AND FIELD NAME	WELL NO.
08	44558	<input checked="" type="checkbox"/> Existing	<input type="checkbox"/> Add	<input type="checkbox"/> Delete	Currie 'E' North Garden City, S. (Wolfcamp)	3201
08	44558	<input checked="" type="checkbox"/> Existing	<input type="checkbox"/> Add	<input type="checkbox"/> Delete	Currie 'E' North Garden City, S. (Wolfcamp)	3208
08	41832	<input type="checkbox"/> Existing	<input type="checkbox"/> Add	<input checked="" type="checkbox"/> Delete	Currie 'E' State Garden City, S. (Wolfcamp)	3207
08	46757	<input type="checkbox"/> Existing	<input checked="" type="checkbox"/> Add	<input type="checkbox"/> Delete	Currie EE State Garden City, S. (Wolfcamp)	3207

**ATTACH ADDITIONAL PAGES AS NEEDED.**  No additional pages  Additional pages \_\_\_\_\_ (# of additional pages)

**CERTIFICATE:** I declare under penalties in Sec. 91.143, Texas Natural Resources Code, that I am authorized to file this application, that this application was prepared by me or under my supervision and direction, and that the data and facts stated therein are true, correct, and complete to be the best of my knowledge. I certify that all requests for related required approvals from other affected State Agencies have been submitted and that I understand that any authorization granted by Commission approval of this application is contingent upon the approvals from other affected State Agencies being obtained.

Signature Vickie L. Gotcher Title Vickie Gotcher -Reg. Analyst Date 09/29/2015  
 Operator E-mail Address: vgotcher@concho.com Operator Phone No. (432)683-7443  
 (Optional - If provided, e-mail address will become part of this public record.)

**RRC USE ONLY**

Commingling Permit No. \_\_\_\_\_ Approval date: \_\_\_\_\_ Approved by: \_\_\_\_\_



## Currie E North Sec. 32 TB

Currie EE State #3207  
Currie EG State #4101  
Currie 'E' North #2916  
Currie 'E' North #3201  
Currie 'E' North #3206  
Currie 'E' North #3208

### Process Flow Narrative

Oil, gas and water from individual wells will be produced to the Header. From there, individual well streams can be diverted to either the Test Separator or to the Production Separator.

For test purposes, after separation in the Test Separator, gas will be metered through the gas meter, flow through the 2-phase Gas Scrubber and sent to the gas sales meter for measurement and sales. Oil and water will then go to the Test Heater for separation. After separation, any remaining gas will flow through the gas meter and then to the 2-phase Gas Scrubber. The oil will flow through to the Hi-Tower and then to the Test Tank to be gauged and measured. Any remaining gas will flow from the Hi-Tower to the VRU and then on to sales. Water will be metered and sent to the water tanks. Any production vapors that accumulate in the oil and water tanks will go to the Combuster.

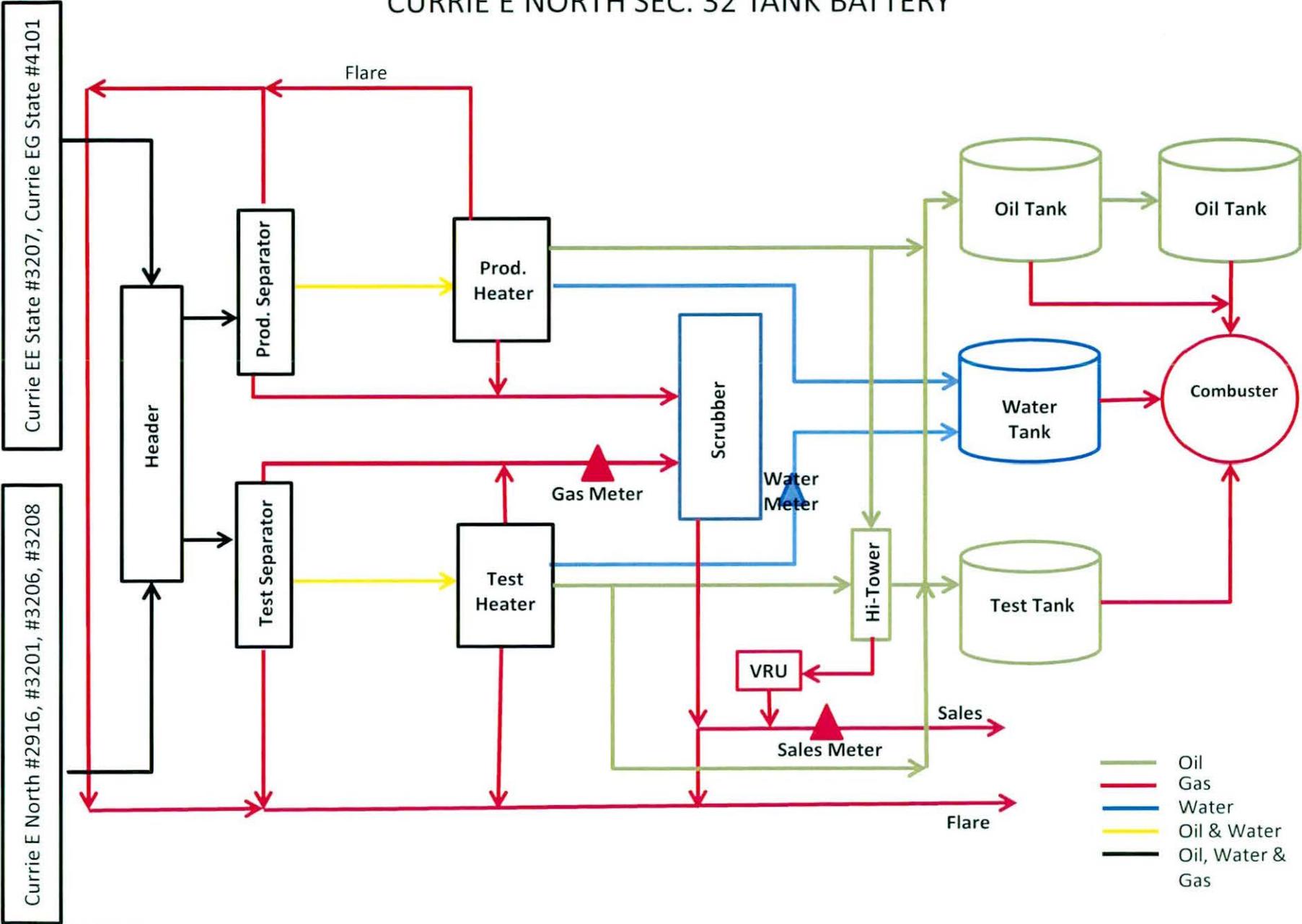
For wells not in test, after separation, they will flow to the Production Separator where the well stream is separated. Gas will be sent to the 2-phase Gas Scrubber and then on to the gas sales meter for measurement and sales. The oil is then sent to the oil tanks and the water is sent to the water tanks.

### Allocation Method

Oil, gas and water production will be allocated daily to individual wells based on well tests. Individual well test values for oil, gas and water, along with daily oil and water tank straps and gas sales meter volumes will be entered into our in-house production management software. The software will then allocate the total battery oil, gas and water volumes back to the well level based on the last well test from each well. Monthly oil and gas sales will be allocated based on the sum of daily allocated well production.



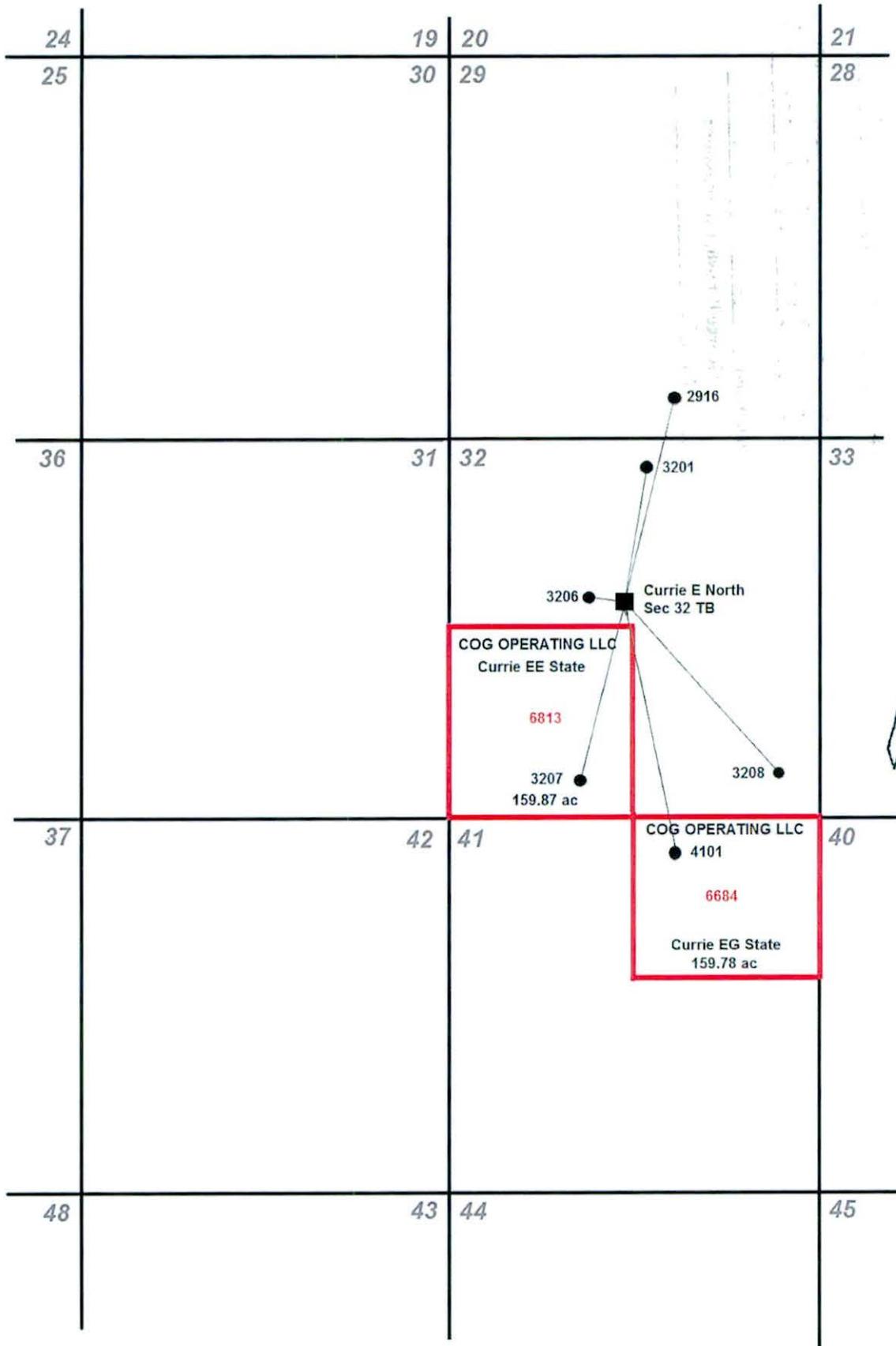
# CURRIE E NORTH SEC. 32 TANK BATTERY



6/1/2015







**COG OPERATING LLC**  
**Currie E North Sec 32 TB**  
 Sec 32, Blk 32, T-4-2  
 T & P RR Co  
 Glasscock County, TX



File No. MF112153

GLASCOCK County

REQUEST TO COMMISSIONER  
CURRIE NORTH, 1E18E6' UNITS

Date Filed: 8/26/2014

George P. Bush, Commissioner

By: MTSCOTT

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

YICKIE L. GOTCHER  
 COG OPERATING LLC  
 ONE CONCHO CENTER  
 600 WEST ILLINOIS AVE  
 MIDLAND TX 79701

2. Article Number

(Transfer from service label)

7011 1150 0001 2416 7012

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

 X 
 Agent  
 Addressee

B. Received by (Printed Name)

EMILY AURINGER

C. Date of Delivery

11/9/15

D. Is delivery address different from item 1?  YesIf YES, enter delivery address below:  No

3. Service Type

- 
- Certified Mail
- 
- Express Mail
- 
- 
- Registered
- 
- Return Receipt for Merchandise
- 
- 
- Insured Mail
- 
- C.O.D.

4. Restricted Delivery? (Extra Fee)

 Yes

UNITED STATES POSTAL SERVICE

ODESSA  
TX 79721

02 NOV 2015 PM



First-Class Mail  
Postage & Fees Paid  
USPS  
Permit No. G-10

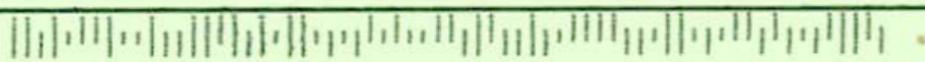
- Sender: Please print your name, address, and ZIP+4 in this box •

MATTHEW SCOTT  
TEXAS GENERAL LAND OFFICE  
PO BOX 12873  
AUSTIN, TX 78711-2873

RECEIVED

NOV 13 2015

General Land Office





TEXAS GENERAL LAND OFFICE  
GEORGE P. BUSH, COMMISSIONER

November 4, 2015

Certified Mail: 7011 1150 0001 2416 7012

Ms. Vickie L. Gotcher  
COG Operating LLC  
One Concho Center  
600 West Illinois Avenue  
Midland, Texas 79701

Subject: Review of Application Requesting Permission to Commingle State of Texas Mineral Leases, HROW MF112153, GLO Units 5669, 6062, 6683, 6684, 6685, 6691, 6813, and 7654, Currie State, District 08, Glasscock County, Texas.

Dear Ms. Gotcher:

Your letters dated October 6 and 7, 2015 requested permission to surface commingle production the following GLO Units:

- 1) the Currie EA State (RRC Lease ID 46753), GLO Unit 7654, RRC P-17 7032;
- 2) the Currie EB State (RRC Lease ID 46754), GLO Unit 6062, Currie ED State (RRC Lease ID 46756), GLO Unit 6683, and the Currie EC State (RRC Lease ID 46755), GLO Unit 5669, RRC P-17 6282;
- 3) the Currie EE State (RRC Lease ID 46757), GLO Unit 6813 and Currie EG State (RRC Lease ID 46759), GLO Unit 6684, RRC P-17 6855; and
- 4) the Currie EF State (RRC Lease ID 46758), GLO Unit 6685 and Currie EH State (RRC Lease ID 46760), GLO Unit 6691, RRC P-17 6768

into common storage and separation with other private leases at the respective tank batteries operated by COG Operating LLC.

Please be advised that the subject application is approved **subject to the following conditions.**

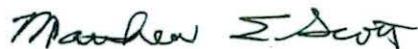
1. All oil production royalties shall be due based on the proportionate share of the total oil production allocated to each RRC lease determined by the performance of periodic (monthly) well tests. In this specific case the Lessee may pay monthly oil royalties per Texas Administrative Code (TAC) Title 31, Part 1, Chapter 9, Subchapter D, Rule §9.51.

Ms. Vickie L. Gotcher  
COG Operating LLC  
November 4, 2015  
Page 2 of 2

2. All gas production royalties shall be due based on the proportionate share of the total gas production volumes (adjusted to MMBTUs) allocated to each RRC lease determined by the performance of monthly well tests. The gas BTU content shall be obtained by gas sample chromatographic analysis or other industry-accepted practices.
3. Retain, for lease audit purposes, all meter and test records, volume statements/reports, oil and gas analyses reports, and shrinkage/flash gas calculation records for all state and private lease or unit wells in the scope of the commingle permit for a period of at least seven (7) years after creation of each report or record.
4. Any changes to the flow process, metering scheme, or the addition of any wells that are not currently processed at the commingle facility shall require the Lessee to obtain permission from the GLO prior to making said changes
5. Please provide me a copy of the RRC Form P-17 permit within ten days of its approval by RRC staff.

If you have questions, please contact me at (512) 475-2230, or by FAX at (512) 475-1543. My e-mail address is [matthew.scott@glo.texas.gov](mailto:matthew.scott@glo.texas.gov).

Sincerely,



Matthew T. Scott, P.E.  
Petroleum Engineer  
Energy Resources/Mineral Leasing

cc: Robert Hatter, Deputy Director Mineral Leasing  
Dale Sump, Manager Minerals Audit

File No. MF112153

GLASSCOCK County  
AGREE TO COMMINGLE  
MULTIPLE MF112153 STATE UNITS

Date Filed: ~~8/24/2016~~ 8/24/2016

George P. Bush, Commissioner

By \_\_\_\_\_