

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

MAR 30 2009

FORM APPROVED
OMB No 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other		5. Lease Serial No. NMNM100844							
b. Type of Completion <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resvr Other		6. If Indian, Allottee or Tribe Name							
2. Name of Operator COG OPERATING LLC		8. Lease Name and Well No. REINDEER 21 FEDERAL 3							
3. Address 550 W TEXAS, STE 1300 FASKEN TOWER II MIDLAND, TX 79701		9. API Well No. 30-015-36538-00-S1							
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface SWNW 1980FNL 430FWL At top prod interval reported below Sec 21 T16S R28E Mer NMP At total depth SENE 1980FNL 330FEL		10. Field and Pool, or Exploratory CROW FLATS 97691 11. Sec., T., R., M., or Block and Survey or Area Sec 21 T16S R28E Mer NMP 12. County or Parish EDDY 13. State NM							
14. Date Spudded 12/02/2008		15. Date T.D. Reached 12/23/2008							
16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 03/05/2009		17. Elevations (DF, KB, RT, GL)* 3587 GL							
18. Total Depth: MD TVD 10600 6780		19. Plug Back T.D.: MD TVD							
20. Depth Bridge Plug Set: MD TVD		21. Type Electric & Other Mechanical Logs Run (Submit copy of each) COMPENSATED NEWT CCL							
22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Directional Survey? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis)									
23. Casing and Liner Record (Report all strings set in well)									
Hole Size	Size/Grade	Wt. (#/ft)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17.500	13.375 J-55	54.5	0	562		500		0	
12.250	9.625 K-55	40.0	0	1835		710		0	
8.750	7.000 HCP-110	26.0	0	5985		750		0	
6.125	4.500 HCP-110	11.6	5864	10600					
6.125	4.500 HCP-110	11.6	5864	10600					
24. Tubing Record									
Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	
25. Producing Intervals					26. Perforation Record				
Formation	Top	Bottom	Perforated Interval		Size	No. Holes	Perf. Status		
A) ABO			TO 6845				open		
B)			TO 7291				open		
C)			TO 7728				open		
D)			TO 8039				open		
27. Acid, Fracture, Treatment, Cement Squeeze, Etc									
Depth Interval	Amount and Type of Material								
TO 6845	bbbs 15% acid, frac, w/ 3085 bbbs silverstim, 3512 gel, 99099# sand								
TO 7291	bbbs 15% acid, frac, w/ 2877 bbbs silverstim, 1008 gel, 81573# sand								
TO 7728	bbbs 15% acid, frac, w/ 3007 bbbs silverstim, 3700 gel, 103751# sand								
TO 8039	bbbs 15% acid, frac, w/ 3011 bbbs silverstim, 2968 gel, 106427# sand								
28. Production - Interval A									
Date First Produced 03/09/2009	Test Date 03/14/2009	Hours Tested 24	Test Production →	Oil BBL 1353.0	Gas MCF 1243.0	Water BBL 764.0	Oil Gravity Corr API 41.7	Gas Gravity	Production Method ELECTRIC PUMPING UNIT
Choke Size	Tbg Press Flwg SI	Csg Press	24 Hr Rate →	Oil BBL 1353	Gas MCF 1243	Water BBL 764	Gas Oil Ratio 919	Well Status POW	
28a. Production - Interval B									
Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr API	Gas Gravity	Production Method
Choke Size	Tbg Press Flwg SI	Csg Press	24 Hr Rate →	Oil BBL	Gas MCF	Water BBL	Gas Oil Ratio	Well Status	

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #68084 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **

Send C-102 w/ corrected pool

MAR 28 2009
BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr API	Gas Gravity	Production Method
Choke Size	Tbg Press Flwg SI	Csg Press	24 Hr Rate →	Oil BBL	Gas MCF	Water BBL	Gas Oil Ratio	Well Status	

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr API	Gas Gravity	Production Method
Choke Size	Tbg Press Flwg SI	Csg Press	24 Hr Rate →	Oil BBL	Gas MCF	Water BBL	Gas Oil Ratio	Well Status	

29. Disposition of Gas (Sold, used for fuel, vented, etc.)
CAPTURED

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
YATES	862				
SEVEN RIVERS	1020				
SAN ANDRES	1960				
GLORIETA	3352				
ABO	4708				
WOLFCAMP	6640				

32. Additional remarks (include plugging procedure):

1-30-09 Abo Perfs @ 6845?, 7291?, 7728?, 8039?, 8477?, 8873?, 9227?, 9585?, & 9857?, & 10,312

3-05-09 Frac 10 stage Abo frac.

1st stage acidize w/ 98 BBLS 15% acid. Frac w/ 2893 BBLS Silverstim, 10,121 gel & 97,185# sand.

2nd stage acidize w/ 76 BBLS 15% acid. Frac w/ 3019 BBLS Silverstim, 1871 gel & 99,797# sand.

33. Circle enclosed attachments.

- | | | | |
|---|--------------------|---------------|-----------------------|
| 1. Electrical/Mechanical Logs (1 full set req'd.) | 2. Geologic Report | 3. DST Report | 4. Directional Survey |
| 5. Sundry Notice for plugging and cement verification | 6. Core Analysis | 7 Other: | |

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Electronic Submission #68084 Verified by the BLM Well Information System.
For COG OPERATING LLC, sent to the Carlsbad
Committed to AFMSS for processing by KURT SIMMONS on 03/18/2009 (09KMS1040SE)

Name (please print) PHYLLIS A EDWARDS

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 03/17/2009

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ****

Additional data for transaction #68084 that would not fit on the form

26. Perforation Record, continued

Perf Interval	Size	No. Holes	Perf Status
TO 8477			open
TO 8873			open
TO 9227			open
TO 9585			open
TO 9857			open
TO 10312			open

27. Acid, Fracture, Treatment, Cement Squeeze, etc., continued

Depth Interval	Amount and Type of Material
TO 8477	bbls 15% acid, frac, w/ 3083 bbls silverstim, 3194 gel, 106432# sand
TO 8873	bbls 15% acid, frac, w/ 3049 bbls silverstim, 1642 gel, 103200# sand
TO 9227	bbls 15% acid, frac, w/ 3202 bbls silverstim, 1350 gel, 117120# sand
TO 9585	bbls 15% acid, frac, w/ 3086 bbls silverstim, 1345 gel, 105406# sand
TO 9857	bbls 15% acid, frac, w/ 3019 bbls silverstim, 1871 gel, 99797# sand
TO 10312	bbls 15% acid, frac, w/ 2893 bbls silverstim, 10121 gel, 97185# sand

32. Additional remarks, continued

3rd stage acidize w/ 82 BBLS 15% acid. Frac w/ 3086 BBLS Silverstim, 1345 gel & 105,406# sand.

4th stage acidize w/ 71 BBLS 15% acid. Frac w/ 3202 BBLS Silverstim, 1350 gel & 117,120# sand.

5th stage acidize w/ 70 BBLS 15% acid. Frac w/ 3049 BBLS Silverstim, 1642 gel & 103,200# sand.

6th stage acidize w/ 70 BBLS 15% acid. Frac w/ 3083 BBLS Silverstim, 3194 gel & 106,432# sand.

7th stage acidize w/ 78 BBLS 15% acid. Frac w/ 3011 BBLS Silverstim, 2968 gel & 106,427# sand.

8th stage acidize w/ 71 BBLS 15% acid. Frac w/ 3007 BBLS Silverstim, 3700 gel & 103,751# sand.

9th stage acidize w/ 73 BBLS 15% acid. Frac w/ 2877 BBLS Silverstim, 1008 gel & 81,573# sand.

10th stage acidize w/ 73 BBLS 15% acid. Frac w/ 3085 BBLS Silverstim, 3512 gel & 99,099# sand.