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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No 1004-0137
Expires July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other		6. If Indian, Allottee or Tribe Name							
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr. Other _____		7. Unit or CA Agreement Name and No. NMNM88525X							
2. Name of Operator COG OPERATING LLC		8. Lease Name and Well No. BURCH KEELY UNIT 18 FEDERAL 6H							
3. Address 550 WEST TEXAS AVENUE SUITE 100 MIDLAND, TX 79701		9. API Well No. 30-015-39575-00-S1							
3a. Phone No. (include area code) Ph: 432-685-4332		10. Field and Pool, or Exploratory GRAYBURG JACKSON; SR-Q-G-SA							
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface Lot 3 1650FSL 330FWL 32.831699 N Lat, 104.018081 W Lon At top prod interval reported below Lot 3 1650FSL 330FWL 32.831699 N Lat, 104.018081 W Lon At total depth <u>UL</u> Lot 1 1725FSL 359FEL		11. Sec., T., R., M., or Block and Survey or Area Sec 18 T17S R30E Mer NMP							
14. Date Spudded 12/21/2011		15. Date T.D. Reached 01/13/2012							
16. Date Completed ☐ D & A ☒ Ready to Prod. 02/16/2012		17. Elevations (DF, KB, RT, GL)* 3633 GL							
18. Total Depth. MD 9130 TVD 4861		19. Plug Back T.D.: MD 9130 TVD 4861							
20. Depth Bridge Plug Set: MD TVD		21. Type Electric & Other Mechanical Logs Run (Submit copy of each) DIDNOTRUNLOGS							
22. Was well cored? ☒ No ☐ Yes (Submit analysis) Was DST run? ☒ No ☐ Yes (Submit analysis) Directional Survey? ☐ No ☒ 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 Sks & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17.500	13.375 H-40	48.0	0	357		550		0	
12.250	9.625 J-55	36.0	0	1152		500		0	
8.750	5.500 L-80	17.0	0	9130		1700		0	
24. Tubing Record									
Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	
2.875	4256	4255							
25. Producing Intervals									
Formation	Top	Bottom	Perforated Interval		Size	No Holes	Perf Status		
A) YESO	5050	9050	5050 TO 5450		0.430	24	Open		
B)			5650 TO 6050		0.430	24	Open		
C)			6250 TO 6650		0.430	24	Open		
D)			6850 TO 7250		0.430	24	Open		
27. Acid, Fracture, Treatment, Cement Squeeze, Etc									
Depth Interval	Amount and Type of Material								
5050 TO 5450	gal TW, 12053 gal WF, 287870 gal gel, 3264# 100 mesh, 266735# 16/30 bn sd, 51226# 16/30 CRC								
5050 TO 5450	gal 15% acid								
5650 TO 6050	gal TW, 12543 gal WF, 287901 gal gel, 3611# 100 mesh, 293989# 16/30 BN SD, 28249# 16/30 CRC								
5650 TO 6050	gal 15% acid								
28. Production - Interval A									
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr API	Gas Gravity	Production Method
02/16/2012	03/13/2012	24	→	124.0	718.0	165.0	37.6	0.60	FLOW FROM WELL
Choke Size	Tbg Press Flwg SI	Csg Press	24 Hr Rate	Oil BBL	Gas MCF	Water BBL	Gas Oil Ratio	Well Status	
24/64	70	70.0	→	124	718	165	5790	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 #136325 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

RECLAMATION DUE 8-16-12

APR 29 2012

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.)

SOLD

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
SALADO QUEEN RUSTLER SAN ANDRES TUBB GLORIETA YESO			SALT DOLOMITE & SANDSTONE ANHYDRITE DOLOMITE & LIMESTONE DOLOMITE & SANDSTONE SANDSTONE SANDSTONE & DOLOMITE	GLORIETA QUEEN RUSTLER SAN ANDRES TOP SALT TUBB YESO	

32. Additional remarks (include plugging procedure):

44. Continued...

6250 - 6650 Acidized w/ 3,000 gals acid. Frac w/13,847 gals treated wtr, 13,294 gals wtrfrac.

6250- 6650 Frac w/ 290,812 gals gel, 5920# 100 mesh, 269,818# 16/30 brown sand, 48,778# 16/30 CRC.

6850 - 7250 Acidized w/ 3,000 gals acid. Frac w/12,507 gals treated wtr, 15,230 gals

33. Circle enclosed attachments.

- | | | | |
|---|--------------------|--------------|-----------------------|
| 1 Electrical/Mechanical Logs (I 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 #136325 Verified by the BLM Well Information System.

For COG OPERATING LLC, sent to the Carlsbad

Committed to AFMSS for processing by DEBORAH MCKINNEY on 04/25/2012 (12DLM1019SE)

Name (please print) KANICIA CARRILLO

Title PREPARER

Signature (Electronic Submission)

Date 04/25/2012

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 ** REVISED **

Additional data for transaction #136325 that would not fit on the form

26. Perforation Record, continued

Perf Interval	Size	No. Holes	Perf Status
7450 TO 7850	0.430	24	Open
8050 TO 8450	0.430	24	Open
8650 TO 9050	0.430	24	Open

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

Depth Interval	Amount and Type of Material
6250 TO 6650	gal TW, 13294 gal WF, 290812 gal gel, 5920# 100 mesh, 269818# 16/30 bn sd, 48778# 16/30 CRC
6250 TO 6650	gal 15% acid
6850 TO 7250	gal 15% acid
6850 TO 7250	gal TW, 15230 gal WF, 293183 gals gel, 5815# 100 mesh, 268285# 16/30 Bn Sd, 49606# 16/30 CRC
7450 TO 7850	gal tw, 14388 gal wf, 283060 gal gel, 6651# 100 mesh, 317178# 16/30 bn sd, 47739# 16/30 CRC
7450 TO 7850	gal 15% acid
8050 TO 8450	gal 15% acid
8050 TO 8450	gal water frac, 291589 gal gel, 6284# 100 mesh, 318768# 16/30 brown sand, 48863# 16/30 CRC
8650 TO 9050	gal 15% acid,
8650 TO 9050	gal slick water, 16382 gal water frac, 282370 gal gel, 261213# brown sand, 52168# 16/30 CRC

32. Additional remarks, continued

wtrfrac.
6850 - 7250 Frac w/ 293,183 gals gel, 5815# 100 mesh, 268,285# 16/30 brown sand, 49,606# 16/30 CRC

7450 - 7850 Acidized w/ 3,000 gals acid. Frac w/14,700 gals treated wtr, 14,388 gals wtrfrac
7450 - 7850 Frac w/ 283,060 gals gel, 6651# 100 mesh, 317,178# 16/30 brown sand, 47,739# 16/30 CRC.

8050 - 8450 Acidized w/ 3,000 gals acid. Frac w/15,212 gals wtrfrac.
8050 - 8450 Frac w/ 291,589 gals gel, 6284# 100 mesh, 318,768# 16/30 brown sand, 48,863# 16/30 CRC.

8650 - 9050 Acidized w/ 3,000 gals acid. Frac w/8,601 gals slick wtr, 16,682 gals wtr frac.
8650 - 9050 Frac w/ 292,370 gals gel, 261,213# 16/30 brown sand, 52,168# 16/30 CRC.