OCD – Artesia

Form 3160-4
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No. NMLC029342D

1a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.
Other

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

2. Name of Operator: COG OPERATING LLC
Contact: NATALIE KRUEGER
E-Mail: nkrueger@conchoresources.com

8. Lease Name and Well No.: MIRANDA FEDERAL 18

3. Address: 550 WEST TEXAS AVENUE SUITE 100, MIDLAND, TX 79701-4287
3a. Phone No. (include area code): Ph: 432-231-0300

9. API Well No.: 30-015-38053-00-S1

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
At surface: Sec 9 T17S R30E Mer NMP SENE Lot H 2310FNL 330FEL
At top prod interval reported below
At total depth

RECEIVED
DEC 22 2010
NMOCD ARTESIA

10. Field and Pool, or Exploratory: LOCO HILLS

11. Sec., T., R., M., or Block and Survey or Area: Sec 9 T17S R30E Mer NMP

12. County or Parish: EDDY
13. State: NM

14. Date Spudded: 09/27/2010
15. Date T.D. Reached: 10/04/2010
16. Date Completed: ☐ D & A ☒ Ready to Prod. 11/03/2010
17. Elevations (DF, KB, RT, GL)*: 3700 GL

18. Total Depth: MD 6022 TVD
19. Plug Back T.D.: MD 5968 TVD
20. Depth Bridge Plug Set: MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
COMPENSATEDNEUT DUALLATEROLOG

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	456		450		0	
11.000	8.625 J-55	24.0	0	1343		500		0	
7.875	5.500 J-55	17.0	0	6013		1000		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	5774	4297						

25. Producing Intervals / 26. Perforation Record

	Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A)	GLORIETA-YESO			4455 TO 4730		26	open, Paddock
B)	YESO	4730	5770	5030 TO 5230		26	open, Blinebry (upper)
C)				5300 TO 5500		26	open, Blinebry (middle)
D)				5570 TO 5770		26	open, Blinebry (lower)

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
4455 TO 4730	gal gel, 106872# 16/30 Ottawa sand, 7868# 16/30 siberprop
4455 TO 4730	gal acid
5030 TO 5230	gal gel, 140808# 16/30 Ottawa sand, 29443# 16/30 siberprop
5030 TO 5230	gal acid

ACCEPTED FOR RECORD

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
11/27/2010	11/27/2010	24	→	133.0	143.0	398.0	39.0		ELECTRIC PUMPING UNIT

Choke Size	Tbg. Press. Flwg. SI 70	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
		70.0	→	133	143	398	1075	POW

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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
11/27/2010	11/27/2010	24	→	133.0	143.0	398.0	39.0	0.60	ELECTRIC PUMPING UNIT

Choke Size	Tbg. Press. Flwg. SI 70	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
		70.0	→	133	143	398		POW

BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

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

ELECTRONIC SUBMISSION #98906 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

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
YATES	1278		DOLOMITE & SAND	YATES	1278
QUEEN	2182		SAND	QUEEN	2182
SAN ANDRES	2909		DOLOMITE & ANHYDRITE	SAN ANDRES	2909
GLORIETA	4368		SAND & DOLOMITE	GLORIETA	4368
YESO	4429		DOLOMITE & ANHYDRITE		

32. Additional remarks (include plugging procedure):
Logs will be sent via mail.

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 #98906 Verified by the BLM Well Information System.
For COG OPERATING LLC, sent to the Carlsbad
Committed to AFMSS for processing by KURT SIMMONS on 12/14/2010 (11KMS0408SE)

Name *(please print)* NATALIE KRUEGER Title PREPARER

Signature (Electronic Submission) Date 12/11/2010

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 fradulent statements or representations as to any matter within its jurisdiction.

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

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Additional data for transaction #98906 that would not fit on the form

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

Depth Interval	Amount and Type of Material
5300 TO 5500	gal acid
5300 TO 5500	gal gel, 153073# 16/30 Ottawa sand, 27540# 16/30 siberprop
5570 TO 5770	gal gel, 145562# 16/30 Ottawa sand, 35887# 16/30 siberprop
5570 TO 5770	gal acid

Cott