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OCD Artesia

Form 3160-4
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
NMOCD ARTESIA OF LAND MANAGEMENT

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			6. If Indian, Allottee or Tribe Name		
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			7. Unit or CA Agreement Name and No.		
2. Name of Operator COG OPERATING LLC			8. Lease Name and Well No. HARVARD FEDERAL 14		
Contact: KANICIA CARRILLO E-Mail: kcarrillo@conchoresources.com			9. API Well No. 30-015-37412-00-S1		
3. Address 550 W TEXAS, STE 1300 FASKEN TOWER II MIDLAND, TX 79701			10. Field and Pool, or Exploratory LOCO HILLS		
3a. Phone No. (include area code) Ph: 432-685-4332			11. Sec., T., R., M., or Block and Survey or Area Sec 11 T17S R30E Mer NMP		
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface NENE Lot A 990FNL 510FEL At top prod interval reported below NENE Lot A 990FNL 510FEL At total depth NENE Lot A 990FNL 510FEL			12. County or Parish EDDY		
14. Date Spudded 04/02/2010			13. State NM		
15. Date T.D. Reached 04/11/2010			17. Elevations (DF, KB, RT, GL)* 3750 GL		
16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 05/12/2010					
18. Total Depth: MD 6105 TVD 6105			19. Plug Back T.D.: MD 6055 TVD 6055		
20. Depth Bridge Plug Set: MD TVD					
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) COMPENSATED NEUT			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 Sks & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17.500	13.375 H40	48.0	0	478		450		0	0
11.000	8.625 J55	24.0	0	1337		500		0	0
7.875	5.500 J55	17.0	0	6105		1150		0	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	5583							

25 Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) YESO			4630 TO 4880	0.410	29	OPEN
B) PADDOCK	4630	4880	5050 TO 5250	0.410	26	OPEN
C) BLINEBRY	5600	5800	5320 TO 5520	0.410	26	OPEN
D)			5600 TO 5800	0.410	26	OPEN

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

Depth Interval	Amount and Type of Material
4630 TO 4880	ACIDIZE W/3,000 GALS 15% ACID
4630 TO 4880	FRAC W/109,737 GALS GEL, 114,702# 16/30 OTTAWA SAND, 19,565# 16/30 SIBERPROP SAND.
5050 TO 5250	ACIDIZE W/2,500 GALS 15% ACID
5050 TO 5250	FRAC W/ 124,485 GALS GEL, 149,821# 16/30 OTTAWA SAND, 31,442# 16/30 SIBERPROP SAND.

28 Production - Interval A

Date First Produced 05/14/2010	Test Date 05/25/2010	Hours Tested 24	Test Production →	Oil BBL 81.0	Gas MCF 136.0	Water BBL 229.0	Oil Gravity Corr API 37.8	Gas Gravity	<div style="border: 1px solid black; padding: 5px;"> <p>ACCEPTED FOR RECORD</p> <p>ELECTRIC PUMPING UNIT</p> <p>JUL 24 2010</p> <p>BUREAU OF LAND MANAGEMENT CARLSBAD FIELD OFFICE</p> </div>
Choke Size	Tbg Press Flwg SI 70	Csg Press 70.0	24 Hr Rate →	Oil BBL 81	Gas MCF 136	Water BBL 229	Gas Oil Ratio 1679	Well Status POW	

28a Production - Interval B

Date First Produced 05/14/2010	Test Date 05/25/2010	Hours Tested 24	Test Production →	Oil BBL 81.0	Gas MCF 136.0	Water BBL 229.0	Oil Gravity Corr API 37.8	Gas Gravity 0.60	<div style="border: 1px solid black; padding: 5px;"> <p>ACCEPTED FOR RECORD</p> <p>ELECTRIC PUMPING UNIT</p> <p>JUL 24 2010</p> <p>BUREAU OF LAND MANAGEMENT CARLSBAD FIELD OFFICE</p> </div>
Choke Size	Tbg Press Flwg SI 70	Csg Press 70.0	24 Hr Rate →	Oil BBL 81	Gas MCF 136	Water BBL 229	Gas Oil Ratio 1679	Well Status POW	

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

ELECTRONIC SUBMISSION #88720 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

dm

me 3/24/13

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	1437		DOLOMITE & SAND	YATES	1437
QUEEN	2337		SAND	QUEEN	2337
SAN ANDRES	3062		DOLOMITE & ANHYDRITE	SAN ANDRES	3062
GLORIETA	4523		SAND & DOLOMITE	GLORIETA	4523
YESO	4578		DOLOMITE & ANHYDRITE		
TUBB	5946		SAND		

32. Additional remarks (include plugging procedure)

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

5320 - 5520 ACIDIZE W/2,500 GALS 15% ACID.

5320 - 5520 Frac w/124,220 gals gel, 149,474# 16/30 Ottawa sand, 30,614# 16/30 Siberprop sand.

5600 - 5800 ACIDIZE W/2,500 GALS 15% ACID.

5600 - 5800 FRAC W/118,404 gals gel, 143,629# 16/30 Ottawa sand, 28,819# 16/30 Siberprop

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 #88720 Verified by the BLM Well Information System.

For COG OPERATING LLC, sent to the Carlsbad

Committed to AFMSS for processing by CHERYLE RYAN on 06/29/2010 (10CMR0525SE)

Name (please print) KANICIA CARRILLO

Title PREPARER

Signature (Electronic Submission)

Date 06/29/2010

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

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

Additional data for transaction #88720 that would not fit on the form

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

Depth Interval	Amount and Type of Material
5320 TO 5520	gal 15% acid
5320 TO 5520	gal gel, 149474# 16/30 Ottawa sand, 30614# 16/30 Siberprop sand
5600 TO 5800	gal 15% acid
5600 TO 5800	gal gel, 143629# 16/30 Ottawa sand, 28819# 16/30 siberprop sand

32. Additional remarks, continued

sand.