

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  
b Type of Completion ☐ New Well ☐ Work Over ☒ Deepen ☐ Plug Back ☐ Diff Resvr.  
Other \_\_\_\_\_

2 Name of Operator  
COG OPERATING LLC Contact: NETHA AARON  
E-Mail: oaaron@conchoresources.com

3 Address 550 WEST TEXAS AVENUE SUITE 100  
MIDLAND, TX 79701 3a Phone No (include area code)  
Ph: 432-818-2319

4 Location of Well (Report location clearly and in accordance with Federal requirements)\*  
At surface Sec 15 T17S R30E Mer NMP  
NWSE 1650FSL 2310FEL  
At top prod interval reported below  
At total depth

5. Lease Serial No  
NMLC029020L

6 If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No

8 Lease Name and Well No.  
SHAWNEE FEDERAL 1

9. API Well No.  
30-015-30628-00-S1

10. Field and Pool, or Exploratory  
Loco Hills

11. Sec., T., R., M., or Block and Survey  
or Area Sec 15 T17S R30E Mer NMP

12. County or Parish  
EDDY 13 State  
NM

14. Date Spudded  
07/09/1999 15 Date T D Reached  
08/31/2011 16 Date Completed  
☐ D & A ☒ Ready to Prod  
10/10/2011

17 Elevations (DF, KB, RT, GL)\*  
3709 KB

18 Total Depth MD 6218  
TVD 6218 19 Plug Back T D MD 6078  
TVD 6078 20 Depth Bridge Plug Set MD  
TVD

21 Type Electric & Other Mechanical Logs Run (Submit copy of each)  
GR RADIALCEMENTBON 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	13.370 H40	54 0	0	435		550			
12 250	8.625 J-55	24 0	0	1206		600			
7 875	5 500 J-55	15.5	0	4891		1000			
6.125	4.000 L80	11.6	4827	6199	4827	200			

## 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	4794							

## 25 Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf Status
A) YESO	5110	5940	4467 TO 4829	0.500	83	CLOSED, squeezed 8/25/11
B)			5110 TO 5310	1.000	24	OPEN, Upper Blinbry
C)			5405 TO 5610	1.000	34	OPEN, Middle Blinbry
D)			5706 TO 5940	1 000	51	OPEN, Lower Blinbry

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

Depth Interval	Amount and Type of Material
4467 TO 4829	20% NE Acid
4467 TO 4829	15% NE Acid
4467 TO 4829	gal R(9) XL-Light 117280 BASF sand, 15280# CRC sand
5110 TO 5310	FRAC W/115,000 GALS GEL, 145,987# 16/30 WHITE SAND, 39,355# CRC

## 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
10/14/2011	10/19/2011	24	→	11.0	5 0	11 0	36 8	0 60	ELECTRIC PUMPING UNIT
Choke Size	Tbg Press Flwg SI	Csg Press	24 Hr Rate	Oil BBL	Gas MCF	Water BBL	Gas Oil Ratio	Well Status	
	70	70 0	→	11	5	11		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
			→						NOV 2 2011
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 #121408 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\*

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
RUSTLER	324	4826	ANHYDRITE	RUSTLER	324
SALADO	1135		SALT	SALADO	1135
YATES	1265		DOLOMITE & SAND	YATES	1265
SAN ANDRES	2896		SAND	QUEEN	2182
GLORIETA	4369		DOLOMITE & ANHYDRITE	SAN ANDRES	2896
YESO	4440		SAND & DOLOMITE	GLORIETA	4369
PADDOCK	4440			YESO	4440

## 32. Additional remarks (include plugging procedure)

44 Acid, Fracture, Treatment, Cement Squeeze, etc. cont'd....

5706 ? 5940 Acidize w/ 5000 gals 15% HCL acid

5706 ? 5940 Frac w/ 189,000 gals gel, 198,961# 16/30 white, 22,328# CRC

LOGS WILL BE MAILED

## 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 #121408 Verified by the BLM Well Information System.

For COG OPERATING LLC, sent to the Carlsbad

Committed to AFMSS for processing by DEBORAH MCKINNEY on 10/31/2011 (12DLM0147SE)

Name (please print) NETHA AARON

Title AUTHORIZED REPRESENTATIVE

Signature (Electronic Submission)

Date 10/26/2011

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 #121408 that would not fit on the form**

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

Depth Interval	Amount and Type of Material
5110 TO 5310	ACIDIZE W/2500 GALS 15% HCL ACID
5405 TO 5610	FRAC W/ 156,000 GALS GEL, 143,563# 16/30 WHITE SAND, 40,160# CRC
5405 TO 5610	ACIDIZE W/ 5000 GALS 15% HCL ACID

**32. Additional remarks, continued**