

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.  
NMNM96836

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: NETHA AARON  
E-Mail: oaron@conchoresources.com

8. Lease Name and Well No.  
SPRUCE FEDERAL 4

3 Address 550 WEST TEXAS AVENUE SUITE 100  
MIDLAND, TX 79701

3a. Phone No (include area code)  
Ph: 432-818-2319

9. API Well No.  
30-015-39464-00-S1

4 Location of Well (Report location clearly and in accordance with Federal requirements)\*

10. Field and Pool, or Exploratory  
RED LAKE

11 Sec., T., R., M., or Block and Survey  
or Area Sec 25 T17S R27E Mer NMP

12. County or Parish  
EDDY

13. State  
NM

14 Date Spudded  
12/04/2011

15 Date T.D. Reached  
12/09/2011

16. Date Completed  
☐ D & A ☒ Ready to Prod  
01/05/2012

17 Elevations (DF, KB, RT, GL)\*  
3578 GL

18 Total Depth MD 4730  
TVD 4722

19. Plug Back T.D.: MD 4640  
TVD 4632

20. Depth Bridge Plug Set. MD  
TVD

21 Type Electric & Other Mechanical Logs Run (Submit copy of each)  
COMPNEUTRONSPEC

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 Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17.500	13.375 H-40	48.0	0	394		400			
11.000	8.625 J-55	24.0	0	1032		400			
7.875	5.500 J-55	17.0	0	4720		900			

RECEIVED

FEB 29 2012

NMOC D ARTESIA

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	4401							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) YESO	3230	4500	3230 TO 3480	0.340	26	OPEN, Paddock
B)			3680 TO 3905	0.340	26	OPEN, Upper Blinberry
C)			3965 TO 4190	0.340	26	OPEN, Middle Blinberry
D)			4250 TO 4500	0.340	26	OPEN, Lower Blinberry

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

Depth Interval	Amount and Type of Material
3230 TO 3480	ACIDIZED W/1500 GALS 15% HCL
3230 TO 3480	FRAC W/93,000 GALS GEL, 90,481# 16/30 WHITE SAND, 8,662# 16/30 CRC
3680 TO 3905	ACIDIZE W/1500 GALS 15% HCL
3680 TO 3905	FRAC W/113,000 GALS GEL, 144,060# 16/30 WHITE SAND, 31,725# 16/30 CRC

RECLAMATION

DUE 7-5-12

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
01/13/2012	01/17/2012	24	→	134.0	103.0	671.0	40.0	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	→	134	103	671	769	POW	

ACCEPTED FOR RECORD

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
			→						FEB 19 2012
Choke Size	Tbg Press Flwg SI	Csg Press	24 Hr Rate	Oil BBL	Gas MCF	Water BBL	Gas Oil Ratio	Well Status	
			→						

BUREAU OF LAND MANAGEMENT

CARLSBAD FIELD OFFICE

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

ELECTRONIC SUBMISSION #130923 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
QUEEN GRAYBURG YATES SAN ANDRES TUBB GLORIETA YESO			SANDSTONE & DOLOMITE SANDSTONE & DOLOMITE SANDSTONE DOLOMITE & LIMESTONE DOLOMITE & SANDSTONE SANDSTONE SANDSTONE & DOLOMITE	GLORIETA GRAYBURG QUEEN SAN ANDRES TUBB YATES YESO	

## 32. Additional remarks (include plugging procedure).

## 44. Acid, Fracture, Treatment, Cement Squeeze, etc.

3965 - 4190 Acidized w/1500 gals 15% HCL.  
3965 - 4190 Frac w/115,000 gals gel, 146,389# 16/30 White sand,  
31,250# 16/30 CRC

4250 - 4500 Acidized w/2500 gals 15% HCL.

## 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 #130923 Verified by the BLM Well Information System.

For COG OPERATING LLC, sent to the Carlsbad

Committed to AFMSS for processing by DEBORAH MCKINNEY on 02/15/2012 (12DLM0597SE)

Name (please print) NETHA AARON

Title AUTHORIZED REPRESENTATIVE

Signature (Electronic Submission)

Date 02/14/2012

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 \*\***

**Additional data for transaction #130923 that would not fit on the form**

**32. Additional remarks, continued**

4250 - 4500 Frac w/117,000 gals gel, 147,557# 16/30 White sand,  
34,234# 16/30 CRC

LOGS WILL BE MAILED