

Month - Year
MAR 5 2007
OCD - ARTESIA, NM

Form 3160-4
April 2004

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD-ARTESIA

FORM APPROVED
OMB NO. 1004-0137
Expires: March 31, 2007

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. Navaho Federal #8
3. Address 550 W. Texas, Suite 1300, Midland, TX 79701	3a. Phone No. (include area code) 432-685-4340	9. AFI Well No. 30-015-35014
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface 1650' FSL & 2308' FEL, Unit J At top prod. interval reported below At total depth		10. Field and Pool, or Exploratory Empire Yeso
14. Date Spudded 12/20/2006	15. Date T.D. Reached 01/17/2007	11. Sec., T., R., M., on Block and Survey or Area Sec 30, T17S, R29E
16. Date Completed 02/12/2007 <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod.		12. County or Parish Eddy 13. State NM
17. Elevations (DF, RKB, RT, GL)* 3638' GL		
18. Total Depth: MD 6060' TVD	19. Plug Back T.D.: MD 6038' TVD	20. Depth Bridge Plug Set: MD None TVD
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) CN / HNGS, Micro CFL / HNGS		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 report) Directional Survey? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit copy)

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
17-1/2	13-3/8	48		379		448 sx CI C		Surface	
12-1/4	8-5/8	24		947		600 sx CI C		Surface	
7-7/8	5-1/2	17		6052		1825 sx CI C		Surface	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2-7/8	5925	None						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Yeso			5744' - 5925'	2 SPF	60	Open
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
5744' - 5925'	Acidize w/ 2100 gals acid
	Frac w/ 32,000 gals 30# gel, 53,000 gals 40# gel, 8000# LiteProp, 90,460# 16/30 sand

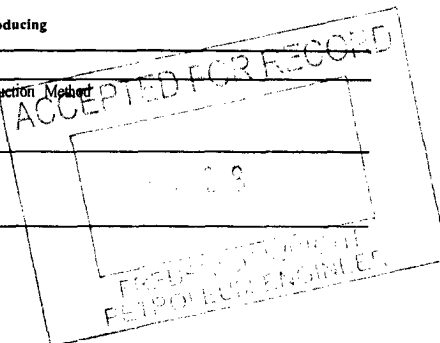
28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
02/15/2007	02/17/2007	24	→	14	125	11	39.8		Pumping
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	Producing
			→						

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 page 2)



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	829				
7 Rivers	1100				
Queen	1721				
Grayburg	2134				
San Andres	2461				
Glorieta	3785				
Yeso	4073				

32. Additional remarks (include plugging procedure):

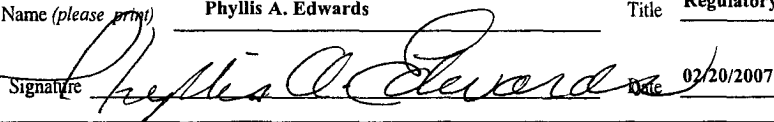
33. Indicate which items have been attached by placing a check in the appropriate boxes:

- ☐ Electrical/Mechanical Logs (1 full set req'd.) ☐ Geologic Report ☐ DST Report ☐ Directional Survey
☐ Sundry Notice for plugging and cement verification ☐ Core Analysis ☒ Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name (please print) Phyllis A. EdwardsTitle Regulatory Analyst

Signature


Date 02/20/2007

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.



PO Box 1370
Artesia, NM 88211-1370
(505) 748-1288

January 23, 2007

COG, LLC
Fasken Center, Tower II
550 West Texas Ave, Suite 1300
Midland, TX 79701

RE: Navaho Federal #8
1650' FSL & 2308' FWL
Sec. 30, T17S, R29E
Eddy County, New Mexico

Dear Sir,

The following is the Deviation Survey for the above captioned well.

<u>DEPTH</u>	<u>DEVIATION</u>	<u>DEPTH</u>	<u>DEVIATION</u>
230'	1°	2610'	2°
322'	1 1/2°	2830'	2 1/4°
414'	1 1/2°	3015'	1 1/2°
629'	1 1/2°	3321'	2°
753'	1 1/2°	3486'	1°
848'	3/4°	3726'	1 1/2°
1081'	1 1/4°	4098'	2°
1206'	1°	4411'	2 1/4°
1395'	1 1/2°	4722'	2 1/4°
1583'	2°	5032'	2°
1800'	1 1/4°	5220'	3°
2016'	2 1/4°	5437'	4°
2201'	2°	5810'	6°
2391'	2°		

Very truly yours,

Eddie C. LaRue
Operations Manager

State of New Mexico }
County of Eddy }

The foregoing was acknowledged before me this 23rd day of January, 2007.

Notary Public