

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFEB 12 2008  
OCD-ARTESIAFORM APPROVED  
OMB NO 1004-0137  
Expires March 31, 2007

## 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**3 Address **550 W. Texas, Suite 1300, Midland, TX 79701**3a Phone No. (include area code)  
**432-685-4332**

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

At surface **2310 FSL & 1750 FEL, Unit J**

At top prod interval reported below

At total depth

14 Date Spudded  
**10/23/2007**15. Date TD Reached  
**11/04/2007**16 Date Completed **11/19/2007**  
☐ D & A ☒ Ready to Prod17. Elevations (DF, RKB, RT, GL)\*  
**3689 GL**18. Total Depth MD **6007**  
TVD19. Plug Back T.D. MD **5992**  
TVD20 Depth Bridge Plug Set: MD **None**  
TVD

21. Type Electric &amp; Other Mechanical Logs Run (Submit copy of each)

**CN / HNGS, Micro CFL / HNGS**22. Was well cored? ☒ No ☐ Yes (Submit analysis)  
Was DST run? ☒ No ☐ Yes (Submit report)  
Directional Survey? ☒ No ☐ 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#		420		810 C		Surface	Circ 180
12-1/4	8-5/8	32#		1313		800 C		Surface	Circ 300
7-7/8	5-1/2	17#		6006		1100 C		Surface	Circ 302

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	5823							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) <b>Yeso</b>			4950 - 5150	2 SPF	36	Open
B) <b>Yeso</b>			5230 - 5430	2 SPF	36	Open
C) <b>Yeso</b>			5599 - 5800	2 SPF	48	
D)						

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

Depth Interval	Amount and Type of Material
4950 - 5150	Acidized w/ 5000 gals acid. Frac w/ 89,861# 16/30 sand.
5230 - 5430	Acidized w/ 5000 gals acid. Frac w/ 87,537# 16/30 sand.
5599 - 5800	Acidized w/ 5000 gals acid. Frac w/ 86,153# 16/30 sand.

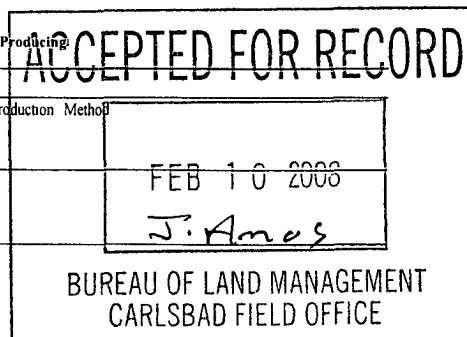
28 Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr API	Gas Gravity	Production Method
11/29/2007	12/13/2007	24	→	85	105	310	37.6		Pumping
Choke Size	Tbg Press Flwg SI	Csg Press	24 Hr Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

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
<b>Yates</b>	<b>1240</b>				
<b>7 Rivers</b>	<b>1535</b>				
<b>Queen</b>	<b>2135</b>				
<b>Grayburg</b>	<b>2538</b>				
<b>San Andres</b>	<b>2867</b>				
<b>Glorieta</b>	<b>4285</b>				
<b>Yeso</b>	<b>4392</b>				

## 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) **Kanicia Carrillo**Title **Regulatory Analyst**Signature Date **12/19/2007**

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.

## DISTRICT I

1625 N. FERNCH DR., BOBBS, NM 86240

## DISTRICT II

1301 W. GRAND AVENUE, ARTESIA, NM 86210

## DISTRICT III

1000 Rio Brazos Rd., Artec, NM 87410

## DISTRICT IV

1220 S. ST. FRANCIS DR., SANTA FE, NM 87505

## State of New Mexico

Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION  
1220 SOUTH ST. FRANCIS DR.  
Santa Fe, New Mexico 87505

Form C-102

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

## WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-35394	Pool Code 96718	Pool Name Loco Hills; Glorieta-Yeso
Property Code 302547	Property Name POLARIS B FEDERAL	Well Number 9
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3689'

## Surface Location

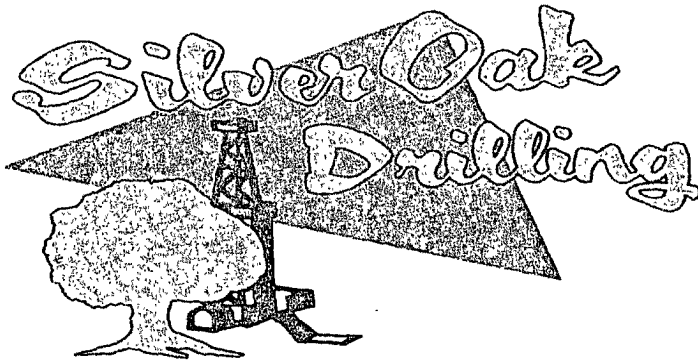
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	9	17-S	30-E		2310	SOUTH	1750	EAST	EDDY

## Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres 40	Joint or Infill	Consolidation Code	Order No.						

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

<p>GEODETIC COORDINATES NAD 27 NME</p> <p>Y=672407.9 N X=610492.6 E</p> <p>LAT.=32.848017° N LONG.=103.973550° W</p>	<p><b>OPERATOR CERTIFICATION</b></p> <p>I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p><i>Jerry W. Sherrell</i> 12/15/06 Signature Date</p> <p>Jerry W. Sherrell Printed Name</p> <p><b>SURVEYOR CERTIFICATION</b></p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>NOVEMBER 16, 2006</p> <p>Date Surveyed LA</p> <p>Signature &amp; Seal of Professional Surveyor</p> <p><i>Gary A. Edmon</i> 12/07/06 06.11.1798</p> <p>Certificate No. GARY EDSON 12841</p>
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PO Box 1370  
Artesia, NM 88211-1370  
(505) 748-1288

November 9, 2007

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


RE: Polaris B Federal #9  
2310' FSL & 1750' FEL  
Sec. 9, T17S, R30E  
Eddy County, New Mexico

Dear Sir,

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

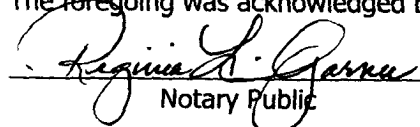
<u>DEPTH</u>	<u>DEVIATION</u>	<u>DEPTH</u>	<u>DEVIATION</u>
255.00	1.00	3044.00	0.75
531.00	1.00	3302.00	0.50
947.00	1.00	3582.00	0.50
1162.00	1.00	3819.00	0.75
1525.00	1.25	4100.00	0.75
1672.00	1.00	4392.00	1.00
1932.00	1.00	4701.00	1.00
2171.00	0.75	4913.00	1.00
2421.00	1.25	5194.00	0.75
2649.00	1.25	5443.00	1.00
2795.00	1.00	5795.00	1.00

Very truly yours,

  
Leroy Curry  
Drilling Superintendent

State of New Mexico }  
County of Eddy }

The foregoing was acknowledged before me this 9<sup>th</sup> day of November, 2007.

  
Notary Public

