

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

DEC 26 2007  
OCD-ARTESIAFORM APPROVED  
OMB NO. 1004-0137  
Expires: March 31, 2007

1a Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other		5 Lease Serial No <b>LC-029342B</b>							
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 _____		6. If Indian, Allottee or Tribe Name ---							
2 Name of Operator <b>COG Operating LLC</b>		7 Unit or CA Agreement Name and No ---							
3 Address <b>550 W. Texas, Suite 1300, Midland, TX 79701</b>	3a Phone No (include area code) <b>432-685-4332</b>	8 Lease Name and Well No <b>Polaris B Federal #9</b>							
4 Location of Well (Report location clearly and in accordance with Federal requirements)*  At surface <b>2310 FSL &amp; 1750 FEL, Unit J</b>  At top prod interval reported below  At total depth		9. AFI Well No <b>30-015-35394</b>							
14 Date Spudded <b>10/23/2007</b>	15 Date T D Reached <b>11/04/2007</b>	10 Field and Pool, or Exploratory <b>Loco Hills; Glorieta Yeso</b>							
16 Date Completed <b>11/19/2007</b> <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod		11 Sec , T , R , M , on Block and Survey or Area <b>Sec 9, T17S, R30E</b>							
17 Elevations (DF, RKB, RT, GL)* <b>3689 GL</b>		12 County or Parish <b>Eddy</b>							
13 State <b>NM</b>									
18. Total Depth MD <b>6007</b> TVD	19 Plug Back T.D.: MD <b>5992</b> TVD	20 Depth Bridge Plug Set: MD <b>None</b> TVD							
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) <b>CN / HNGS, Micro CFL / HNGS</b>		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#		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) Yeso				4950 - 5150		2 SPF	36	Open	
B) Yeso				5230 - 5430		2 SPF	36	Open	
C) Yeso				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	
			→					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	1240				
7 Rivers	1535				
Queen	2135				
Grayburg	2538				
San Andres	2867				
Glorieta	4285				
Yeso	4392				

## 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.

DEC 26 2007  
OCD-ARTESIA

DISTRICT I  
1825 N. FRENCH DR., HOBBS, NM 88240

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-102

DISTRICT II  
1301 W. GRAND AVENUE, ARTESIA, NM 88210

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

Revised October 12, 2005  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

DISTRICT III  
1000 Rio Branco Rd., Artec, NM 87410

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

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 Ida	Feet from the	North/South line	Feet from the	East/West line	County
J	9	17-S	30-E		2310	SOUTH	1750	EAST	EDDY

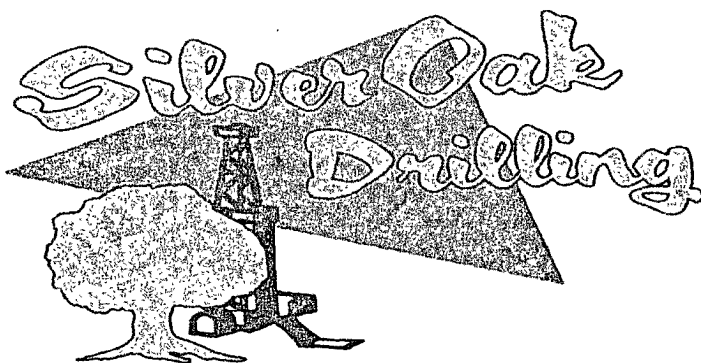
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Ida	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 unless 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. Edson</i> 12/07/06 06.11.1798</p> <p>Certificate No. GARY EIDSON 12841</p>

DEC 26 2007  
OCD-ARTESIA



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.

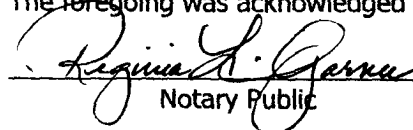
<u>DEPTH</u>	<u>DEVIATION</u>	<u>DEPTH</u>	<u>DEVIATION</u>
255.00	1.00	3044.00	0.75
531.00	1.00	3302.00	0.50
947.00	1.00	3582.00	0.50
1162.00	1.00	3819.00	0.75
1525.00	1.25	4100.00	0.75
1672.00	1.00	4392.00	1.00
1932.00	1.00	4701.00	1.00
2171.00	0.75	4913.00	1.00
2421.00	1.25	5194.00	0.75
2649.00	1.25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

