

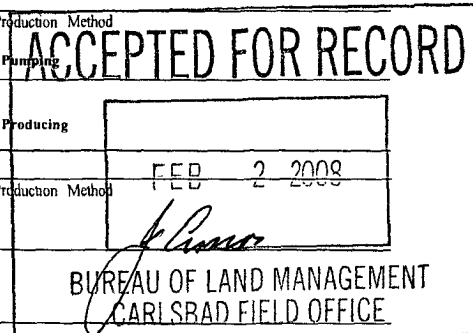
UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

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

5 Lease Serial No <b>LC-029342B</b>									
6 If Indian, Allottee or Tribe Name ---									
7 Unit or CA Agreement Name and No ---									
8 Lease Name and Well No <b>Polaris B Federal #12</b>									
9 AFI Well No <b>30-015-35397</b>									
10 Field and Pool, or Exploratory <b>Loco Hills; Glorieta Yeso</b>									
11 Sec, T., R., M., on Block and Survey or Area <b>Sec 9, T17S, R30E</b>									
12 County or Parish <b>Eddy</b>	13 State <b>NM</b>								
17 Elevations (DF, RKB, RT, GL)* <b>3677 GL</b>									
14 Date Spudded <b>09/19/2007</b>									
15 Date TD Reached <b>09/29/2007</b>									
16 Date Completed <b>11/17/2007</b> <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod									
18. Total Depth MD <b>5920</b> TVD									
19 Plug Back TD MD <b>5866</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 Sk. & Type of Cement	Slurry Vol (BBL)	Cement Top*	Amount Pulled
17-1/2	13-3/8	48#		436		927 C		1" to Surface	
12-1/4	8-5/8	32#		1374		800 C		Surface	Circ 339
7-7/8	5-1/2	17#		5920		1200 C		Surface	Circ 136
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	5778								
25 Producing Intervals					26. Perforation Record				
Formation	Top	Bottom	Perforated Interval	Size	No Holes	Perf Status			
A) Yeso			4995 - 5195	2 SPF	36	Open			
B) Yeso			5285 - 5485	2 SPF	36	Open			
C) Yeso			5564 - 5765	2 SPF	48	Open			
D)									
27 Acid, Fracture, Treatment, Cement Squeeze, etc									
Depth Interval			Amount and Type of Material						
4995 - 5195			Acidize w/ 5000 gals acid. Frac w/ 96,597# 16/30 sand.						
5285 - 5485			Acidize w/ 5000 gals acid. Frac w/ 88,511# 16/30 sand.						
5564 - 5765			Acidize w/ 5000 gals acid. Frac w/ 89,794# 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
11/20/2007	12/11/2007	24	→	96	207	250	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
<b>Yates</b>	<b>1210</b>				
<b>7 Rivers</b>	<b>1510</b>				
<b>Queen</b>	<b>2105</b>				
<b>Grayburg</b>	<b>2510</b>				
<b>San Andres</b>	<b>2835</b>				
<b>Glorieta</b>	<b>4260</b>				
<b>Yeso</b>	<b>4360</b>				

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

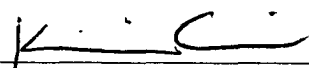
## 33. Indicate which items have been attached by placing a check in the appropriate boxes:

- ☐ 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

**12/21/2007**

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

1686 N. FRANCE DR., BOBBS, NM 88640

## State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

## DISTRICT II

1301 W. GRAND AVENUE, ALBERA, NM 88210

## OIL CONSERVATION DIVISION

1220 SOUTH ST. FRANCIS DR.

Santa Fe, New Mexico 87505

## DISTRICT III

1000 Rio Brazos Rd., Artes, NM 87410

## DISTRICT IV

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

## WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-15-35397	Pool Code 96718	Pool Name Loco Hills; Glorieta-Yeso
Property Code 302547	Property Name POLARIS B FEDERAL	Well Number 12
OCRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3677'

## Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	9	17-S	30-E		330	SOUTH	2310	EAST	EDDY

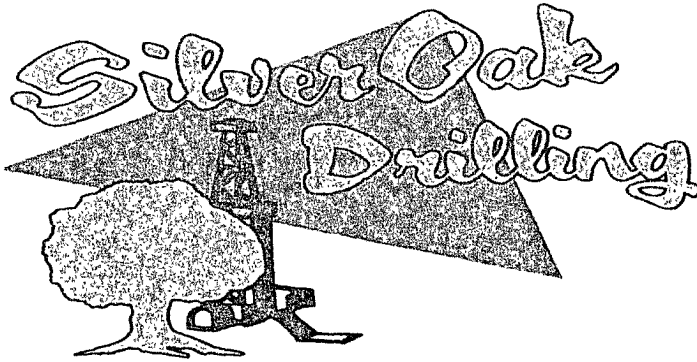
## Bottom Hole Location If Different From Surface

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.
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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>GEODETTIC COORDINATES NAD 27 NME Y=670427.4 N X=609939.8 E LAT.=32.842578° N LONG.=103.975372° W</p> <p>DETAIL 3684.6' 3688.0' 600' 3678.9' 3678.5'</p> <p>SEE DETAIL 330' 2310'</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 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 20, 2006</p> <p>Date Surveyed LA Signature &amp; Seal of Professional Surveyor <i>Gary A. Edson</i> 12/07/06 06.11.1801 Certificate No. GARY EDSON 12641</p>



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

October 12, 2007

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

RE: Polaris B Federal #12  
2310' FNL & 330' FEL  
Sec. 21, 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>
234.00	0.25	2933.00	0.75
523.00	0.75	3223.00	0.50
830.00	0.25	3541.00	0.75
1084.00	1.75	3859.00	1.00
1242.00	1.00	4159.00	0.25
1507.00	0.75	4431.00	1.00
1793.00	0.50	4812.00	1.00
2080.00	1.00	5098.00	1.00
2365.00	0.50	5552.00	0.25
2652.00	1.00		

Very truly yours,

Eddie LaRue  
Operations Manager

State of New Mexico }  
County of Eddy }

The foregoing was acknowledged before me this 26<sup>th</sup> day of July, 2007.

  
Notary Public