

# OCD-ARTESIA



Form 3160-4  
(April 2004)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMBNO 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		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>		8 Lease Name and Well No <b>Polaris B Federal #8</b>	
3a Phone No (include area code) <b>432-685-4332</b>		9 AFI Well No <b>30-015-35393</b>	
4 Location of Well (Report location clearly and in accordance with Federal requirements)*  At surface <b>2310' FSL &amp; 2310' FWL, Unit K</b>  At top prod interval reported below  At total depth		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>	
14 Date Spudded <b>08/05/2007</b>		15 Date T D Reached <b>08/17/2007</b>	
		16 Date Completed <b>09/13/2007</b> <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod	
17 Elevations (DF, RKB, RT, GL)* <b>3696' GL</b>			
18 Total Depth MD <b>5970</b> TVD		19 Plug Back T D MD <b>5951</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)	

OCT 05 2007  
OCD-ARTESIA

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		438		1152 C/H		Surface	Circ 11
12-1/4	8-5/8	32#		1372		800 C		Surface	Circ 67
7-7/8	5-1/2	17		5960		1650 C		Surface	Circ 415

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	5770							

25 Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No Holes	Perf Status
A) <b>Yeso</b>			<b>4960 - 5271</b>	<b>2 SPF</b>	<b>60</b>	<b>Open</b>
B) <b>Yeso</b>			<b>5434 - 5758</b>	<b>2 SPF</b>	<b>58</b>	<b>Open</b>
C)						
D)						

26 Perforation Record

Depth Interval	Amount and Type of Material
<b>4960 - 5271</b>	<b>Acidize w/ 2500 gals acid. Frac w/ 84,042 gal gel. 8000# LiteProp, 90,420# 16/30 sand.</b>
<b>5434 - 5758</b>	<b>Acidize w/ 1675 gals acid. Frac w/ 84,210 gal gel. 8009# LiteProp, 90,000# 16/30 sand.</b>

27 Acid, Fracture, Treatment, Cement Squeeze, etc

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
09/17/2007	09/22/2007	24	→	44	155	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	Producing
			→						

ACCEPTED FOR RECORD

OCT - 3 2007

JERRY FANT  
PETROLEUM GEOLOGIST

\* (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

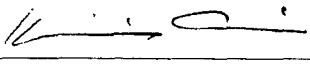
Formation	Top	Bottom	Descriptions, Contents, etc	Name	Top
					Meas. Depth
Yates	1240				
7 Rivers	1535				
Queen	2135				
Gravburg	2538				
San Andres	2867				
Glorieta	4285				
Yeso	4392				

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) Kancia Carrillo Title Regulatory Analyst  
 Signature  Date 09/28/2007

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  
1825 N. FRENCH DR., BOBBS, NM 86240

DISTRICT II  
1301 W. GRAND AVENUE, ARTESIA, NM 86210

DISTRICT III  
1000 Rio Brazos Rd., Aztec, 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 30-015-35393	Pool Code 96718	Pool Name Loco Hills; Glorieta-Yeso
Property Code 302547	Property Name POLARIS B FEDERAL	Well Number 8
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3686'

Surface Location

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

Bottom Hole Location If Different From Surface

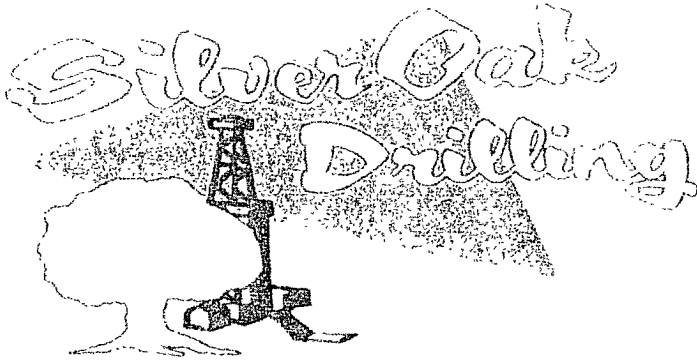
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

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>GEODETIC COORDINATES NAD 27 NME Y=672405.6 N X=609269.4 E LAT.=32 848022' N LONG.=103.977533' 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> 12/14/06 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 E. Eidsen</i> 12/07/06 06.11.1797 Certificate No. GARY EIDSON 12641</p>

RECEIVED



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

August 21, 2007

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

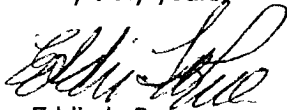
RE: Polaris B Federal #8  
2310' FSL & 2310' FWL  
Sec. 9, T17S, R30E  
Eddy County, New Mexico

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>
465.00	1.00	3126.00	1.50
770.00	0.75	3290.00	0.50
1079.00	1.00	3590.00	0.75
1672.00	1.25	4090.00	0.50
1958.00	1.75	4390.00	1.00
2258.00	1.25	4859.00	0.75
2553.00	0.50	5357.00	0.75

Very truly yours,

  
Eddie LaRue  
Operations Manager

State of New Mexico }  
County of Eddy }

The foregoing was acknowledged before me this 21<sup>st</sup> day of August, 2007.

  
Notary Public

