

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTMAR 27 2008
OCD-ARTESIAFORM APPROVED
OMB No 1004-0137
Expires July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No:
NMLC029342B1a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.
Other _____

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

2. Name of Operator
COG OPERATING LLCContact: KANICIA CARRILLO
E-Mail: kcarrillo@conchoresources.com8. Lease Name and Well No.
POLARIS B FEDERAL 163. Address 550 WEST TEXAS AVE STE 1300
MIDLAND, TX 797013a. Phone No. (include area code)
Ph: 432-685-43329. API Well No.
30-015-35927

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

At surface Lot J 1650FSL 2310FEL 32.84621 N Lat, 103.97537 W Lon

At top prod interval reported below Lot J 1650FSL 2310FEL 32.84621 N Lat, 103.97537 W Lon

At total depth Lot J 1650FSL 2310FEL 32.84621 N Lat, 103.97537 W Lon

10. Field and Pool, or Exploratory
LOCO HILLS, GLORIETA YESO11. Sec., T., R., M., or Block and Survey
or Area Sec 9 T17S R30E Mer12. County or Parish
EDDY13. State
NM14. Date Spudded
02/08/200815. Date T.D. Reached
01/10/200816. Date Completed
☐ D & A ☒ Ready to Prod.
03/05/200817. Elevations (DF, KB, RT, GL)*
3684 GL18. Total Depth: MD
TVD 593519. Plug Back T.D.: MD
TVD 591920. Depth Bridge Plug Set: MD
TVD21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
COMPENSATED NEUTRON HNGS/CCL22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run? ☒ No ☐ Yes (Submit analysis)
Directional Survey? ☐ No ☒ Yes (Submit analysis)

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
17.500	13.375 H40	48.0		423		447		0	10
12.250	8.625 J55	32.0		1804		1300		0	62
7.875	5.500 L80	17.0		6517		5934		0	241

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.875	5737							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) YESO	4900	5100	4900 TO 5100	0.410	33	OPEN
B) YESO	5200	5400	5200 TO 5400	0.410	33	OPEN
C) YESO	5550	5750	5550 TO 5750	0.410	48	OPEN
D)						

26. Perforation Record

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

Depth Interval	Amount and Type of Material
4900 TO 5100	ACIDIZED W/5,000 GALS ACID FRAC W/42,966 GALS GEL, 66,306# 16/30 SAND
5200 TO 5400	ACIDIZED W/5,000 GALS ACID FRAC W/63,393 GALS GEL, 65,301# 16/30 SAND, 18,943# SIBERPROP SAND.
5550 TO 5750	ACIDIZED W/5,000 GALS ACID FRAC W/70,645 GALS GEL, 65,841# 16/30 SAND, 23,541# SIBERPROP 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
03/17/2008	03/23/2008	24	→	137.0	254.0	660.0	40.4		ELECTRIC PUMPING UNIT
Choke Size	Tbg Press Flwg. SI	Csg Press	24 Hr Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→					POW	

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 reverse side)

ELECTRONIC SUBMISSION #59265 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

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	1242				
7 RIVERS	1537				
QUEEN	2136				
SAN ANDRES	2870				
YESO	4382				
TUBB	5832				

32. Additional remarks (include plugging procedure):
Logs and Temp survey will be mailed.

33. Circle enclosed attachments:

- | | | | |
|---|--------------------|---------------|-----------------------|
| 1. Electrical/Mechanical Logs (1 full set req'd.) | 2. Geologic Report | 3. DST Report | 4. Directional Survey |
| 5. Sundry Notice for plugging and cement verification | 6. Core Analysis | 7 Other: | |

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

**Electronic Submission #59265 Verified by the BLM Well Information System.
For COG OPERATING LLC, sent to the Carlsbad**

Name (please print) KANICIA CARRILLO

Title PREPARER

Signature (Electronic Submission)

Date 03/26/2008

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.

**** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ****

DISTRICT I

1625 N. FRENCH DR., HOBBS, NM 88240

DISTRICT II

1301 W. GRAND AVENUE, ARTESIA, NM 88210

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 30-015-35927		Pool Code 96718	Pool Name Loco Hills:Glorieta-Yeso
Property Code 302547	Property Name POLARIS B FEDERAL		Well Number 16
OGRID No. 229137	Operator Name COG OPERATING, LLC		Elevation 3684'

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		1650	SOUTH	2310	EAST	EDDY

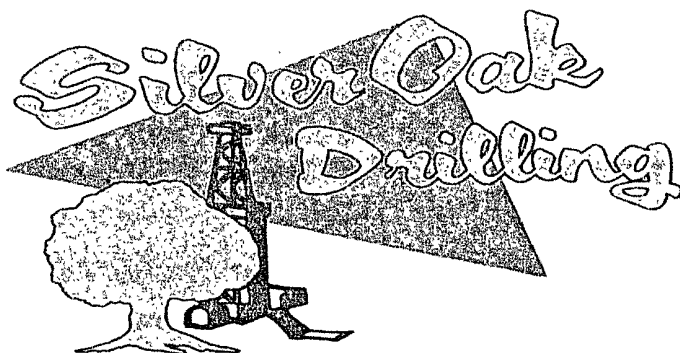
Bottom Hole Location If Different From Surface

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>GEODETIC COORDINATES NAD 27 NME</p> <p>Y=671747.1 N X=609935.1 E</p> <p>LAT.=32.846206° N LONG.=103.975373° W</p>	<p>OPERATOR CERTIFICATION</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>03/25/08</p> <p>Signature _____ Date _____</p> <p>Kanicia Carrillo</p> <p>Printed Name _____</p>
	<p>SURVEYOR CERTIFICATION</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>SEPTEMBER 7, 2007</p> <p>Date Surveyed _____ AR</p> <p>Signature & Seal of Professional Surveyor _____</p>
	<p>07.11.1010</p>
	<p>Certificate No. GARY EIDSON 12641 RONALD J. EIDSON 3239</p>



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

February 27, 2008

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

RE: Polaris B Federal #16
1650' FSL & 2310' 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>
241.00	1.00	2829.00	1.00
659.00	1.25	3048.00	1.00
1003.00	1.25	3266.00	1.00
1127.00	1.00	3827.00	0.75
1276.00	1.00	4079.00	0.75
1496.00	1.00	4390.00	1.00
1589.00	0.75	4704.00	0.75
1839.00	0.75	5020.00	0.75
2082.00	0.50	5335.00	0.75
2332.00	0.50	5555.00	0.75
2581.00	0.25	5895.00	1.00

Very truly yours,

Eddie LaRue
Operations Manager

State of New Mexico }
County of Eddy }

The foregoing was acknowledged before me this 27th day of February, 2008.

Notary Public

