

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTAPR - 1 2008
OCD-ARTESIAFORM APPROVED
OMB No. 1004-0137
Expires July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5 Lease Serial No.
NMLC029342B

1a. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other			6. If Indian, Allottee or Tribe Name		
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 _____			7 Unit or CA Agreement Name and No.		
2. Name of Operator COG OPERATING LLC			Contact: KANICIA CARRILLO E-Mail: kcarrillo@conchoresources.com		
3. Address 550 WEST TEXAS AVE STE 1300 MIDLAND, TX 79701			3a. Phone No. (include area code) Ph: 432-685-4332		
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface Lot K 1600FSL 1659FWL 32.84607 N Lat, 103.97965 W Lon At top prod interval reported below Lot K 1600FSL 1659FWL 32 84607 N Lat, 103.97965 W Lon At total depth Lot K 1600FSL 1659FWL 32 84607 N Lat, 103.97965 W Lon			8. Lease Name and Well No. POLARIS B FEDERAL 17		
14. Date Spudded 01/16/2008			15. Date T.D. Reached 01/27/2008		
16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 02/13/2008			9. API Well No. 30-015-35932		
18. Total Depth: MD 5920 TVD			19. Plug Back T.D.: MD 5862 TVD		
20. Depth Bridge Plug Set: MD TVD			10. Field and Pool, or Exploratory LOCO HILLS; GLORIETA-YESO		
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) COMPENSATED NEUTRON HNGS/CCL			11. Sec., T., R., M., or Block and Survey or Area Sec 9 T17S R30E Mer		
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 analysis) Directional Survey? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis)			12. County or Parish EDDY		
			13. State NM		
			17. Elevations (DF, KB, RT, GL)* 3690 GL		

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		390		880		0	5
12.250	8.625 J55	32.0		1354		800		0	270
7 875	5 500 L80	17.0		5930		1200		0	310

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	5802							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) YESO	4810	5010	4810 TO 5010	0.410	36	OPEN
B) YESO	5080	5280	5080 TO 5280	0.410	36	OPEN
C) YESO	5410	5510	5410 TO 5510	0.410	36	OPEN
D) YESO	5580	5780	5580 TO 5780	0.410	48	OPEN

26. Perforation Record

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

Depth Interval	Amount and Type of Material
4810 TO 5010	ACIDIZED W/5,000 GALS ACID. FRAC W/67,272 GALS GEL, 55,172# 16/30 SAND, 14,863# SIBERPROP SAND.
5080 TO 5280	ACIDIZED W/5,000 GALS ACID. FRAC W/69,600 GALS GEL, 76,042# 16/30 SAND, 14,586# SIBERPROP SAND.
5410 TO 5510	ACIDIZED W/5,000 GALS ACID. FRAC W/43,896 GALS GEL, 36,290# 16/30 SAND, 8,310# SIBERPROP SAND.
5580 TO 5780	ACIDIZED W/5,000 GALS ACID. FRAC W/79,716 GALS GEL, 73,300# 16/30 SAND, 14,863# SIBERPROP SAND.

28. Production - Interval A

Date First Produced 02/22/2008	Test Date 02/27/2008	Hours Tested 24	Test Production →	Oil BBL 130 0	Gas MCF 159 0	Water BBL 807 0	Oil Gravity Corr API 38 4	Gas Gravity	Production Method 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 #59330 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):	31. Formation (Log) Markers
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.	

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
YATES	1240				
7 RIVERS	1535				
QUEEN	2140				
SAN ANDRES	2870				
YESO	4380				
TUBB	5825				

32. Additional remarks (include plugging procedure):
Logs 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 #59330 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 03/31/2008

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 30-015-35932	Pool Code 96718	Pool Name Loco Hills:Glorieta-Yeso
Property Code 302547	Property Name POLARIS B FEDERAL	Well Number 17
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3690'

Surface Location

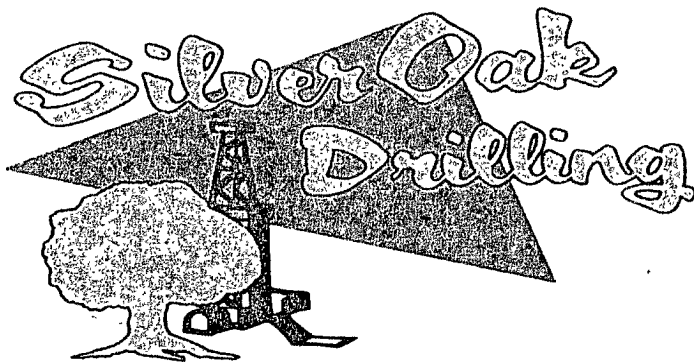
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	9	17-S	30-E		1600	SOUTH	1659	WEST	EDDY

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.						

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=671694.8 N X=608620.7 E</p> <p>LAT.=32.846074° N LONG.=103.979653° 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><u>K. Carrillo</u> 3/26/08 Signature Date</p> <p>Kanicia Carrillo 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 10, 2007</p> <p>Date Surveyed AR</p> <p>Signature & Seal of Professional Surveyor</p> <p>07.11.1011</p> <p>Certificate No. GARY EIDSON 12641 RONALD J. EIDSON 3239</p>
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PO Box 1370
Artesia, NM 88211-1370
(505) 748-1288

February 6, 2008

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

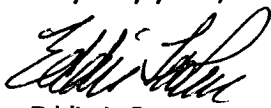
RE: Polaris B Federal #17
1600' FSL & 1659' FWL
Sec. 9, T17S, R30E
Eddy County, New Mexico

Dear Sir,

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

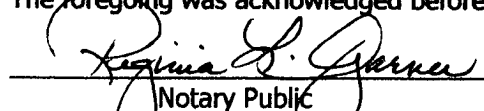
<u>DEPTH</u>	<u>DEVIATION</u>	<u>DEPTH</u>	<u>DEVIATION</u>
221.00	1.00	2812.00	0.50
357.00	0.50	3190.00	1.00
524.00	0.25	3511.00	0.50
860.00	0.50	3797.00	0.75
1050.00	0.75	4179.00	0.75
1300.00	0.75	4437.00	0.75
1460.00	0.75	4737.00	0.25
1827.00	0.50	5037.00	0.25
2208.00	0.75	5356.00	1.00
2494.00	0.75	5726.00	0.50

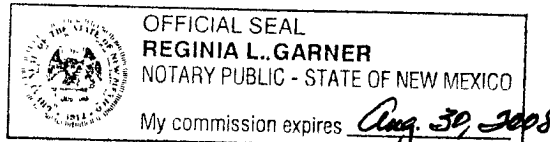
Very truly yours,


Eddie LaRue
Operations Manager

State of New Mexico }
County of Eddy }

The foregoing was acknowledged before me this 6th day of February, 2008.


Notary Public



Feb 20 08 09:52a

LOCAT MEAS & KELTIC SER

(505) 748-9852

P.2

Keltic Services, Inc

Box 1857

Artesia, NM

88211

505 748 3759

Temperature Survey**Company** COG OPERATING**Date** 01/17/08**Well** POLARIS B FED #17**Time Plug Down** 1600 hrs**Time Start Survey** 2225 hrs**Time End Survey** 2345 hrs**Casing String** SURFACE**Depth Reached** 336 ft**Cement Top** 130 ft**Gauge** 205**Operator:** Julian**Witness:** CHARLES GRAHAM

Feb 20 08 09:52a

WLD CAT MEAS & KELTIC SER

(595) 748-9852

p.3

Keltic Services Inc
Temperature SurveyCompany COG OPERATING
Well POLARIS B FED #17Date 1/17/08
Plug Down 1600 hrs
Survey Start 2225 hrs
Operator Julian

Cement Top 130 ft

Depth ft	Temp. °F	Comments
15	67.0	
50	67.3	
100	67.4	
130	67.5	CT
150	68.3	
200	69.4	
250	70.3	
300	71.2	
336	72.5	

