

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

1a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other
b. Type of Completion: ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resv.
Other _____

2. Name of Operator **COG Operating LLC**

3. Address **550 W. Texas, Suite 1300, Midland, TX 79701** 3a. Phone No. (include area code) **432-685-4340**

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
At surface **330' FSL & 330' FEL, Unit P**
At top prod. interval reported below
At total depth

5. Lease Serial No. **LC-029342B**

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

8. Lease Name and Well No. **Polaris B Federal #5**

9. AFI Well No. **30-015-34707**

10. Field and Pool, or Exploratory **Loco Hills; Glorieta Yeso**

11. Sec., T., R., M., on Block and Survey or Area **Sec 9, T17S, R30E**

12. County or Parish **Eddy** 13. State **NM**

14. Date Spudded **10/06/2006** 15. Date T.D. Reached **10/26/2006** 16. Date Completed **11/15/2006**
☐ D & A ☒ Ready to Prod.

17. Elevations (DF, RKB, RT, GL)* **3696' GL**

18. Total Depth: MD **5,985'** 19. Plug Back T.D.: MD **5964'** 20. Depth Bridge Plug Set: MD **None**
TVD TVD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
CN / HNGS, Micro CFL / HNGS

22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run? ☒ No ☐ Yes (Submit report)
Directional Survey? ☒ No ☐ 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		416		928 sx Cl C		Surface	
12-1/4	8-5/8	24		1333		700 sx Cl C		Surface	
7-7/8	5-1/2	17		5791		1975 sx Cl C		Surface	

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	5791	None						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Yeso			4942' - 5155'	2 SPF	62	Open
B) Yeso			5258' - 5478'	2 SPF	62	Open
C) Yeso			5569.5' - 5782'	2 SPF	62	Open
D)						

26. Perforation Record

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

Depth Interval	Amount and Type of Material
4942' - 5155'	See Attachment
5258' - 5478'	See Attachment
5569.5' - 5782'	See Attachment

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
11/24/2006	11/28/2006	24	→	78	158	210	38.0		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)

POLARIS B FEDERAL #5
API#: 30-015-34707
EDDY, NM

3160-04 (#27) ADDITIONAL INFORMATION

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.	
DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
4,942' - 5155'	Acidize w/ 3000 gals acid.
	Frac w/ 94,710 gals gel, 7985# LiteProp, &
	90,837# 16/30 sand.

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.	
DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
5,258' - 5478'	Acidize w/3000 gals acid.
	Frac w/ 108,600 gals 30# gel, 58,900 gal 40#
	gel, 8012# LiteProp, & 91,700# 16/30 sand.

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.	
DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
5,569.5' - 5,782'	Acidize w/3000 gals acid.
	Frac w/ 97,104 gals gel, 8174# LiteProp,
	and 87,611 16/30 sand.



Silver Oak Drilling, LLC

PO Box 1370
Artesia, NM 88211-1370
505/748-1288

October 31, 2006

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

RE: Polaris B Federal #5
990' FSL & 330' 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>
462'	3/4°	3114'	3/4°
770'	1/4°	3574'	3/4°
1111'	1/4°	4012'	3/4°
1578'	1°	4448'	1/4°
1828'	1/2°	4884'	1/4°
2198'	3/4°	5350'	1/2°
2667'	3/4°	5800'	1°
3074'	3/4°	5985'	1°

Very truly yours,

Eddie C. LaRue
Operations Manager

State of New Mexico }
County of Eddy }

The foregoing was acknowledged before me this 31st day of October, 2006.

Notary Public