Form 3160-4
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM 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 ☒ 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 LLC
Contact KANICIA CARRILLO
E-Mail kcarrillo@conchoresources.com

8 Lease Name and Well No: POLARIS B FEDERAL 20

3 Address: 550 W TEXAS, STE 1300 FASKEN TOWER II, MIDLAND, TX 79701
3a Phone No. (include area code): Ph 432-685-4332

9 API Well No.: 30-015-35967-00-S1

4 Location of Well (Report location clearly and in accordance with Federal requirements)*
At surface: Sec 17 T17S R30E Mer NMP SENW 2310FNL 1650FWL
At top prod interval reported below
At total depth

JUL 25 2008
OCD-ARTESIA

10. Field and Pool, or Exploratory: LOCO HILLS

11. Sec , T , R., M , or Block and Survey or Area: Sec 17 T17S R30E Mer NMP

12 County or Parish: EDDY
13 State: NM

14 Date Spudded: 04/24/2008
15 Date T.D. Reached: 05/07/2008
16. Date Completed: ☐ D & A ☒ Ready to Prod. 05/27/2008
17 Elevations (DF, KB, RT, GL)*: 3656 GL

18 Total Depth: MD 5867 TVD
19 Plug Back T.D.: MD 5830 TVD
20 Depth Bridge Plug Set: MD TVD

21 Type Electric & Other Mechanical Logs Run (Submit copy of each)
COMPENSATEDNEUT CCL

22 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 Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17 500	13 375 H40	48.0		418		448		0	125
12 250	8 625 J55	32.0		1308		800		0	280
7.875	5.500 J55	17.0		5867		1200		0	330
17.500	13 375 H-40	48 0	0	418		448		0	
12.250	8 625 J-55	32 0	0	1308		800		0	
7.875	5.500 J-55	17 0	0	5867		1200		0	

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	4676							

25 Producing Intervals / 26. Perforation Record

	Formation	Top	Bottom	Perforated Interval	Size	No Holes	Perf Status
A)	GLORIETA YESO			4830 TO 5030	0.410	36	OPEN
B)	YESO	5429	5600	5130 TO 5330	0 410	36	OPEN
C)				5429 TO 5600	0.410	48	OPEN
D)							

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

Depth Interval	Amount and Type of Material
4830 TO 5030	ACIDIZED W/2,500 GALS ACID FRAC W/61,000 GALS GEL, 76,593# 16/30 SAND, 15,000# 16/30 CRC SAND
5130 TO 5330	ACIDIZED W/2,500 GALS ACID FRAC W/61,000 GALS GEL, 78,008# 16/30 SAND, 15,000# 16/30 CRC SAND
5429 TO 5600	ACIDIZED W/2,500 GALS ACID FRAC W/61,000 GALS GEL, 79,063# 16/30 SAND, 15,000# 16/30 CRC 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
05/30/2008	05/30/2008	24	→	187 0	346 0	541 0	39 1		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
			→	187	346	541		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
			→					

ACCEPTED FOR RECORD
JUL 22 2008
BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #61561 VERIFIED BY THE BLM WELL INFORMATION SYSTEM.

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

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	1150				
QUEEN	2030				
SAN ANDRES	2720				
YESO	4250				
TUBB	5760				

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 #61561 Verified by the BLM Well Information System.
For COG OPERATING LLC, sent to the Carlsbad
Committed to AFMSS for processing by KURT SIMMONS on 07/21/2008 (08KMS2243SE)

Name *(please print)* KANICIA CARRILLO Title PREPARER

Signature (Electronic Submission) Date 07/18/2008

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 fradulent statements or representations as to any matter within its jurisdiction.

**** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ****