

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 LOGS

LEASE DESIGNATION AND SERIAL NO.

NMNM118720

1a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other

b. Type of Completion ☒ New Well ☐ Workover ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.

Other \_\_\_\_\_

2. Name of Operator  
COG Operating LLC

3. Address  
2208 W. Main Street  
Artesia, NM 88210

3a. Phone No. (include area code)  
575-748-6940

6. INDIAN ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT

8. FARM OR LEASE NAME  
Patterson B-52 Federal #3H

9. API WELL NO.  
30-025-39638

4. Location of Well (Report location clearly and in accordance with Federal requirements)\*  
At surface 2310' FSL & 1500' FEL, Unit J (NWSE)  
At top prod. Interval reported below  
At total depth 331' FSL & 1674' FEL, Unit O (SWSE)

10. FIELD NAME  
Lusk; Bone Spring, North

11. SEC. T. R. M. OR BLOCK AND SURVEY OR AREA 5 T 19S R 32E

12. COUNTY OR PARISH 13. STATE  
Lea NM

14. Date Spudded 8/11/10 15. Date T.D. Reached 9/1/10 16. Date Completed 12/15/10 ☐ D & A ☒ Ready to Prod.

17. ELEVATIONS (DF, RKB, RT, GR, etc.)\*  
3662' GR 3679' KB

18. Total Depth: MD 11080' TVD 9388' 19. Plug back T.D.: MD 11041' TVD 9386' 20. Depth Bridge Plug Set: MD TVD

21. Type Electric & other Logs Run (Submit a copy of each)  
DLL, DSN

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 Cement Depth	No. of Sk. & Type of Cement	Slurry Vol. (Bbl)	Cement Top*	Amount Pulled
17 1/2"	13 3/8" J55	54.5#	0	1169'		950 sx		0	None
12 1/4"	9 5/8" J55	36#	0	3293'		1050 sx		0	None
7 7/8"	5 1/2" N80	17#	0	11080'		1350 sx (TOC @ 2500'-TS)		0	None

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"	8811'							

25. Producing Intervals

Formation	Top	Bottom
Bone Spring	9530'	11000'

26. Perforation Record

Perforated Interval	Size	No. of Holes	Perf. Status
10602-11000'		32	Open
10070-10460'		32	Open
9530-9920'		24	Open

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

Depth Interval	Amount and Type of Material
10602-11000'	Acdz w/1689 gal 15% NEFE; Frac w/404578# sand & 255982 gal fluid
10070-10460'	Acdz w/4755 gal 15% NEFE; Frac w/401076# sand & 273748 gal fluid
9530-9920'	Acdz w/2992 gal 15% NEFE; Frac w/402278# sand & 261316 gal fluid

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
12/16/10	12/18/10	24	→	164	177	190			Pumping

Choke Size Tbg. Press Flwg. SI Csg Press. 24 Hr. Rate Oil Bbl Gas MCF Water Bbl Gas: Oil Ratio Well Status

SI 100# → → → → → 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

SI → → → → →

RECEIVED  
JAN 05 2011  
HOBBS

ACCEPTED FOR RECORD

JAN 2 2011

BUREAU OF LAND MANAGEMENT  
ALBUQUERQUE FIELD OFFICE

PETROLEUM ENGINEER  
FEB 16 2011

## 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 Measured Depth
Yates	2933'	3336'		Rustler	1121'
Seven Rivers	3337'	3776'		Top of Salt	1412'
Queen	3777'	4216'		Bottom of Salt	2718'
Grayburg	4217'	4552'		Yates	2933'
San Andres	4553'	4863'		Seven Rivers	3337'
Delaware	4864'	7081'		Queen	3777'
Bone Spring	7082'	11080'		Grayburg	4217'
				San Andres	4553'
				Delaware	4864'
				Bone Spring	7082'
					TD. 11080'

## 32. Additional remarks (include plugging procedure):

## 33. Indicate which items have been attached by placing a check in the appropriate boxes:

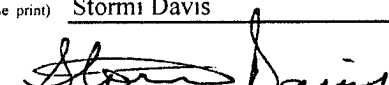
- ☒ Electrical/ Mechanical Logs (1 full set required)
 ☐ Geologic Report
 ☐ DST Report
 ☒ Directional Survey
- ☐ Sundry Notice for plugging and cement verification
 ☐ Core Analysis
 ☒ Other: Deviation Report

## 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) Stormi Davis

Title Regulatory Analyst

Signature



Date 12/20/10

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.