

RECEIVED

UNITED STATES

OCD Artesia

FORM APPROVED

OMB NO. 1004-0137

Expires: July 31, 2010

APR 23 2013

DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. LEASE DESIGNATION AND SERIAL NO.

NMNM100858

1a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other  
b. Type of Completion ☒ New Well ☐ Workover ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.  
Other \_\_\_\_\_

6. INDIAN ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT

2. Name of Operator

COG Operating LLC

8. FARM OR LEASE NAME

Blue Thunder 5 Federal #7H

3. Address

2208 W. Main Street  
Artesia, NM 88210

3a. Phone No. (include area code)

575-748-6940

9. API WELL NO.

30-015-40874

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

At surface 660' FNL &amp; 200' FEL, Lot 1 (NENE) Sec 5-T19S-R31E

10. FIELD NAME

Hackberry; Bone Spring, North

11. SEC. T. R. M. OR BLOCK AND SURVEY  
OR AREA 5 T 19S R 31E

12. COUNTY OR PARISH 13. STATE

Eddy

NM

At total depth 781' FNL &amp; 331' FWL, Lot 4 (NWNW) Sec 5-T19S-R31E

14. Date Spudded

1/9/13

15. Date T.D. Reached

1/22/13

16. Date Completed

3/25/13

☐ D & A☒ Ready to Prod.

17. ELEVATIONS (DF, RKB, RT, GR, etc.)\*

3583'

GR

3600'

KB

18. Total Depth:

MD

13331'

TVD

8812'

19. Plug back T.D.:

MD

13327'

TVD

8812'

20. Depth Bridge Plug Set:

MD

TVD

21. Type Electric &amp; other Logs Run (Submit a copy of each)

None

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 Sks. & Type of Cement	Slurry Vol. (Bbl)	Cement Top*	Amount Pulled
17 1/2"	13 3/8" J55	54.5#	0	720'	None	600 sx		0	None
12 1/4"	9.5/8" J55	36#	0	2703'	None	875 sx		0	None
7 7/8"	5 1/2" P110	17#	0	13331'	None	1875 sx		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"	8325'							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. of Holes	Perf. Status
A) Bone Spring	8949'	13249'	See Attached	0.43	506	Open
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
See Attached	See Attached

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
3/26/13	4/2/13	24	→	845	865	1226			Pumping
Choke Size	Tbg. Press Flwg. SI	Csg. Press.	24 Hr. Rate	Oil Bbl	Gas MCF	Water Bbl	Gas: Oil Ratio	Well Status	
	250#	140#	→	845	865	1226		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)

ACCEPTED FOR RECORD

APR 20 2013

BUREAU OF LAND MANAGEMENT  
HARLESBAD FIELD OFFICERECLAMATION  
DUE 9-25-13

4m

## 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.)

Flaring

## 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
Bone Spring	6429'	13331'		Rustler	638'
				Top of Salt	715'
				Base of Salt	2175'
				Bone Spring Lime	6429'
				First Bone Spring	7880'
				Second Bone Spring	8619'
					TD. 13331'

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

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

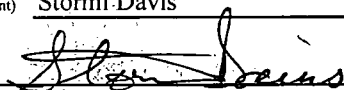
- ☐ Electrical/ Mechanical Logs (1 full set required)
 ☐ Geologic Report
 ☐ DST Report
 ☒ Directional Survey
- ☐ Sundry Notice for plugging and cement verification
 ☐ Core Analysis
 ☒ Other: Deviation Report

## 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 4/10/13

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.

**BLUE THUNDER 5 FEDERAL #7H****30-015-40874****Sec 5-T19S-R31E**

<u>Perfs</u>	<u>7 1/2% Acid (Gal)</u>	<u>Sand (#)</u>	<u>Fluid (Gal)</u>
12856-13249	3008	299771	307486
12547-12797'	3027	303650	281446
11748-12050'	2971	309634	281735
11748-12050'	2877	303565	257199
11348-11650'	3021	300109	237513
10948-11250'	3043	300693	227196
10548-10850'	3082	298818	226494
10149-10450'	3091	301090	225525
9749-10051'	2808	299468	225123
9349-9651'	2933	302643	225999
8949-9251'	2982	308508	225330
<b>Totals</b>	<b>32843</b>	<b>3327949</b>	<b>2721046</b>