Form 3160-4
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

HOBBS OCD
JUN 26 2017
RECEIVED

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No. NMNM18306

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: STORMI DAVIS
E-Mail: sdavis@concho.com

8. Lease Name and Well No.: BROADCASTER 29 FEDERAL 4H

3. Address: 2208 WEST MAIN, ARTESIA, NM 88210

3a. Phone No. (include area code): Ph: 575-748-6946

9. API Well No.: 30-025-42954

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
At surface: Sec 20 T23S R34E Mer NMP SESE 150FSL 660FEL
At top prod interval reported below: Sec 29 T23S R34E Mer NMP
At total depth: SESE 207FSL 659FEL

10. Field and Pool, or Exploratory: ANTELOPE RIDGE; BS, WEST

11. Sec., T., R., M., or Block and Survey or Area: Sec 20 T23S R34E Mer NMP

12. County or Parish: LEA

13. State: NM

14. Date Spudded: 03/21/2017

15. Date T.D. Reached: 04/11/2017

16. Date Completed: ☐ D & A ☒ Ready to Prod. 06/07/2017

17. Elevations (DF, KB, RT, GL)*: 3495 GL

18. Total Depth: MD 16640 TVD 11563

19. Plug Back T.D.: MD 16538 TVD 11565

20. Depth Bridge Plug Set: MD 16538 TVD 11565

21. Type Electric & Other Mechanical Logs Run (Submit copy of each): NONE

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 J55	54.5	0	1085		750		0	
12.250	9.625 L80	40.0	0	5190		1735		0	
8.750	5.500 P110	17.0	0	16620		3020		2640	

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	11126	11108						

25. Producing Intervals / 26. Perforation Record

	Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A)	BONE SPRING	11941	16513	11941 TO 16460	0.430		OPEN
B)				16503 TO 16513		60	OPEN
C)							
D)							

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

Depth Interval	Amount and Type of Material
11941 TO 16460	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
06/09/2017	06/09/2017	24	→	315.0	416.0	1269.0			FLOWS FROM WELL

Choke Size	Tbg. Press. Flwg. SI 4200	Csg. Press. 1600.0	24 Hr. Rate →	Oil BBL 315	Gas MCF 416	Water BBL 1269	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

Accepted for Record Only
pending receipt of APPROVED BLM FORM

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

ELECTRONIC SUBMISSION #379539 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):

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
DELAWARE	5103	5991		RUSTLER	1093
CHERRY CANYON	5992	7307		TOS	1335
BRUSHY CANYON	7308	8646		BOS	4779
BONE SPRING LM	8647	9750		DELAWARE	5103
1ST BONE SPRING	9751	10245		CHERRY CANYON	5992
2ND BONE SPRING	10246	11296		BRUSHY CANYON	7308
3RD BONE SPRING	11297	11607		BONE SPRING LM	8647
				1ST BONE SPRING	9751

32. Additional remarks (include plugging procedure):
Surveys, perfs & stimulation are attached.

Additional Tops:
2nd Bone Spring 10246'
3rd Bone Spring 11297'

*Resubmitted to amend BHL.

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 #379539 Verified by the BLM Well Information System.
For COG OPERATING LLC, sent to the Hobbs

Name *(please print)* STORMI DAVIS Title PREPARER

Signature (Electronic Submission) Date 06/22/2017

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.

**** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ****

BROADCASTER 29 FEDERAL #4H (30-025-42954)

Perfs	7 1/2% Acid (Gal)	Sand (#)	Fluid (Gal)
1	4326	312683	362082
2	3024	312261	336504
3	3024	400558	510006
4	3024	313030	331800
5	3024	311638	329238
6	3108	313772	333396
7	3024	311054	332094
8	3108	312528	329742
9	3024	312008	334572
10	3024	311838	335748
11	3024	312846	331086
12	3024	312830	356916
13	3024	312752	372120
14	3024	311820	329784
15	3024	311909	336336
16	3024	389465	467250
17	3024	312481	331254
18	3066	312034	327810
19	3024	311762	326844
20	3024	311930	331002
21	3024	311690	337596
22	3024	311253	331254
23	3066	312225	334698
24	3024	311693	328692
25	3024	313799	330372
26	3024	313463	329070
27	3024	312561	332598
28	3066	311209	325962
29	3024	315632	325080
Totals	**89292**	**9224724**	**10020906**

BROADCASTER 29 FEDERAL 4H

From Bottom to Top	Stage 1	Distance Between Perfs	Shots	Stage 2	Distance Between Perfs	Shots	Stage 3	Distance Between Perfs	Shots	Stage 4	Distance Between Perfs	Shots	Stage 5	Distance Between Perfs	Shots
	16,460	17		16,306	20		16,150	17		15,993	20		15,820	36	
	16,443	19		16,287	20		16,133	22		15,974	23		15,817	20	
	16,424	20		16,267	19		16,111	20		15,951	17		15,797	18	
	16,404	17		16,248	20		16,091	18		15,934	17		15,779	21	
	16,387	22		16,228	19		16,073			15,917	22		15,758	21	
	16,365	18		16,209	20		16,052	20		15,895	19		15,737	18	
	16,347	21		16,189	22		16,032	19		15,876	20		15,719	23	
	16,326			16,167			16,013			15,856			15,696		
	Plug to Plug	167	0	Plug to Plug	159	0	Plug to Plug	152	0	Plug to Plug	159	0	Plug to Plug	162	0
	Frac Plug	16,483	Total Shots	Frac Plug	16,316	Total Shots	Frac Plug	16,157	Total Shots	Frac Plug	16,005	Total Shots	Frac Plug	15,846	Total Shots

From Bottom to Top	Stage 6	Distance Between Perfs	Shots	Stage 7	Distance Between Perfs	Shots	Stage 8	Distance Between Perfs	Shots	Stage 9	Distance Between Perfs	Shots	Stage 10	Distance Between Perfs	Shots
	15,677	19		15,517	26		15,366	24		15,210	20		15,049	24	
	15,662	21		15,504	20		15,347	16		15,191	20		15,034	20	
	15,641	19		15,484	19		15,331	23		15,171	23		15,014	19	
	15,622	20		15,465	20		15,308	19		15,148	16		14,995	22	
	15,602	20		15,445	20		15,289	20		15,132	19		14,973	17	
	15,582	19		15,425	19		15,269	20		15,113	20		14,956	17	
	15,563	20		15,406	16		15,249	19		15,093	20		14,939	23	
	15,543			15,390			15,230			15,073			14,916		
	Plug to Plug	160	0	Plug to Plug	144	0	Plug to Plug	160	0	Plug to Plug	164	0	Plug to Plug	150	0
	Frac Plug	15,684	Total Shots	Frac Plug	15,524	Total Shots	Frac Plug	15,380	Total Shots	Frac Plug	15,220	Total Shots	Frac Plug	15,056	Total Shots

From Bottom to Top	Stage 11	Distance Between Perfs	Shots	Stage 12	Distance Between Perfs	Shots	Stage 13	Distance Between Perfs	Shots	Stage 14	Distance Between Perfs	Shots	Stage 15	Distance Between Perfs	Shots
	14,899	17		14,740	20		14,575	28		14,427	20		14,270	20	
	14,877	19		14,721	20		14,564	19		14,408	20		14,257	26	
	14,858	20		14,701	18		14,545	20		14,388	20		14,231	15	
	14,838	19		14,683	21		14,525	25		14,368	19		14,216	24	
	14,819	20		14,662	20		14,500	14		14,349	21		14,192	19	
	14,799	20		14,642	19		14,486	17		14,328	18		14,173	20	
	14,779	19		14,623	20		14,469	22		14,310	20		14,153	20	
	14,760			14,603			14,447			14,290			14,133		
	Plug to Plug	159	0	Plug to Plug	165	0	Plug to Plug	148	0	Plug to Plug	157	0	Plug to Plug	159	0
	Frac Plug	14,908	Total Shots	Frac Plug	14,747	Total Shots	Frac Plug	14,582	Total Shots	Frac Plug	14,434	Total Shots	Frac Plug	14,277	Total Shots

From Bottom to Top	Stage 16	Distance Between Perfs	Shots	Stage 17	Distance Between Perfs	Shots	Stage 18	Distance Between Perfs	Shots	Stage 19	Distance Between Perfs	Shots	Stage 20	Distance Between Perfs	Shots
	14,111	22		13,960	17		13,801	19		13,639	25		13,490	17	
	14,094	19		13,938	20		13,781	19		13,624	19		13,468	20	
	14,075	20		13,918	19		13,762	24		13,605	20		13,448	19	
	14,055	20		13,899	20		13,738	16		13,585	21		13,429	20	
	14,035	19		13,879	20		13,722	17		13,564	18		13,409	19	
	14,016	24		13,859	19		13,705	22		13,546	15		13,390	20	
	13,992	15		13,840	20		13,683	19		13,531	24		13,370	20	
	13,977			13,820			13,664			13,507			13,350		
	Plug to Plug	151	0	Plug to Plug	159	0	Plug to Plug	162	0	Plug to Plug	149	0	Plug to Plug	159	0
	Frac Plug	14,118	Total Shots	Frac Plug	13,967	Total Shots	Frac Plug	13,808	Total Shots	Frac Plug	13,646	Total Shots	Frac Plug	13,497	Total Shots

From Bottom to Top	Stage 21	Distance Between Perfs	Shots	Stage 22	Distance Between Perfs	Shots	Stage 23	Distance Between Perfs	Shots	Stage 24	Distance Between Perfs	Shots	Stage 25	Distance Between Perfs	Shots
	13,331	19		13,169	25		13,010	27		12,861	20		12,704	24	
	13,315	23		13,155	20		12,998	20		12,838	16		12,685	20	
	13,292	26		13,135	19		12,978	19		12,822	23		12,665	18	
	13,266	13		13,116	20		12,959	20		12,799	16		12,647	21	
	13,253	17		13,096	20		12,939	19		12,783	16		12,626	19	
	13,236	23		13,076	23		12,920	20		12,767	23		12,607	20	
	13,213	19		13,053	16		12,900	19		12,744	16		12,587	20	
	13,194			13,037			12,881			12,728			12,567		
	Plug to Plug	162	0	Plug to Plug	151	0	Plug to Plug	157	0	Plug to Plug	157	0	Plug to Plug	160	0
	Frac Plug	13,338	Total Shots	Frac Plug	13,176	Total Shots	Frac Plug	13,025	Total Shots	Frac Plug	12,868	Total Shots	Frac Plug	12,711	Total Shots

From Bottom to Top	Stage 26	Distance Between Perfs	Shots	Stage 27	Distance Between Perfs	Shots	Stage 28	Distance Between Perfs	Shots	Stage 29	Distance Between Perfs	Shots	Stage 30	Distance Between Perfs	Shots
	12,544	23		12,382	29		12,235	19		12,069	29			11941	
	12,528	19		12,372	23		12,211	16		12,053	16				
	12,509	20		12,349	17		12,195	16		12,037	18				
	12,489	20		12,332	19		12,179	23		12,019	24				
	12,469	19		12,313	20		12,156	19		11,995	15				
	12,450	24		12,293	19		12,137	20		11,980	19				
	12,426	15		12,274	20		12,117	19		11,961	20				
	12,411			12,254			12,098			11,941					
	Plug to Plug	154	0	Plug to Plug	155	0	Plug to Plug	166	0	Plug to Plug	57	0	Plug to Plug	0	0
	Frac Plug	12,551	Total Shots	Frac Plug	12,397	Total Shots	Frac Plug	12,242	Total Shots	Frac Plug	12,078	Total Shots	Frac Plug		Total Shots