

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
DISTRICT II-ARTESIA, O.C.D.FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No. NMNM112907
6. If Indian, Allottee or Tribe Name
7. Unit or CA Agreement Name and No.
8. Lease Name and Well No. ROAD RUNNER FEDERAL COM 12H
9. API Well No. 30-015-44148-00-S1
10. Field and Pool, or Exploratory COTTONWOOD DRAW
11. Sec., T., R., M., or Block and Survey or Area Sec 25 T25S R26E Mer NMP
12. County or Parish EDDY
13. State NM
17. Elevations (DF, KB, RT, GL)* 3248 GL

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

2. Name of Operator
COG OPERATING LLC
Contact: STORMI DAVIS
E-Mail: sdavis@concho.com

3. Address 600 W ILLINOIS AVENUE
MIDLAND, TX 79701
3a. Phone No. (include area code)
Ph: 575-748-6946

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
At surface SWSE 210FSL 1995FEL 32.094112 N Lat, 104.244408 W Lon
At top prod interval reported below SWSE 330FSL 1980FEL 32.094444 N Lat, 104.244362 W Lon
At total depth NWNE 201FNL 2317FEL

14. Date Spudded
08/16/2017
15. Date T.D. Reached
09/04/2017
16. Date Completed
☐ D & A ☒ Ready to Prod.
12/21/2017

18. Total Depth: MD 17898
TVD 7812
19. Plug Back T.D.: MD 17785
TVD 7815
20. Depth Bridge Plug Set: MD 17785
TVD 7815

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 Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17.500	13.375 J55	54.5	0	290		500		0	
12.250	9.625 J55	40.0	0	2400		1025		0	
8.750	5.500 P110	17.0	0	17890		3605		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	7372	7363						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) BONE SPRING	7950	17760	7950 TO 17698	0.430	2816	OPEN
B)			17750 TO 17760		60	OPEN
C)						
D)						

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

Depth Interval	Amount and Type of Material
7950 TO 17698	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
12/22/2017	12/22/2017	24	→	213.0	468.0	2386.0			FLows FROM WELL
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
34/64	600		→	213	468	2386		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	
			→						

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

ELECTRONIC SUBMISSION #401479 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

Reclamation due: 06/21/2018

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
LAMAR	1964	2003		RUSTLER	31
BELL CANYON	2004	2853		TOP SALT	304
CHERRY CANYON	2854	3919		BASE OF SALT	1765
BRUSHY CANYON	3920	5513		LAMAR	1964
BONE SPRING LIME	5514	6442		BELL CANYON	2004
BONE SPRING 1ST	6443	7184		CHERRY CANYON	2854
BONE SPRING 2ND	7185	7822		BRUSHY CANYON	3920
				BONE SPRING LIME	5514

32. Additional remarks (include plugging procedure):

Surveys and Perfs/Stimulation are attached.

Additional Tops:

1st Bone Spring: 6443'

2nd Bone Spring: 7185'

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 #401479 Verified by the BLM Well Information System.

For COG OPERATING LLC, sent to the Carlsbad

Committed to AFMSS for processing by DUNCAN WHITLOCK on 01/24/2018 (18DW0050SE)

Name (please print) STORMI DAVIS

Title PREPARER

Signature (Electronic Submission)

Date 01/18/2018

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.

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

ROAD RUNNER FEDERAL COM #12H (30-015-44148)

<u>Perfs</u>	<u>7 1/2% Acid (Gal)</u>	<u>Sand (#)</u>	<u>Fluid (Gal)</u>
1	4032	312746	388458
2	2982	290590	333984
3	2982	313499	359100
4	3150	313684	368928
5	3024	314234	350154
6	2226	312003	351666
7	2940	311491	370188
8	3024	312937	355866
9	3024	311864	354564
10	2898	312165	354396
11	2940	313369	360570
12	3024	312056	347214
13	2772	311786	341712
14	2646	312066	341124
15	2772	311364	341040
16	2730	313323	343224
17	2730	312005	339024
18	2730	312900	342636
19	2688	312302	342636
20	3024	312918	339654
21	3024	313207	338520
22	3066	314203	312858
23	2898	312901	325920
24	2898	313911	326676
25	2898	307842	321174
26	3024	313686	308994
27	2982	310386	311220
28	3024	311134	315504
29	3024	311495	289464
30	3024	313533	290724
31	3024	313554	285810
32	3192	312731	285894
33	3024	315465	287826
34	3024	313252	286440
35	3066	312597	283794
36	3024	313442	282534
37	3024	310489	285222
38	2940	312834	283542
39	2940	312321	282534
40	2940	313236	296688
41	3024	312397	288078
42	3024	311988	282576
43	3066	313495	287994
44	3024	313019	297906
45	2898	312623	309246
46	3024	313184	283668
47	2982	313059	283206
48	3024	313470	298662
49	3024	314837	288876
50	3108	315457	300006
51	3024	312432	278670
52	2520	311502	282828
53	2772	312429	295218
54	2982	313542	276948
55	3150	313300	283542
56	3024	314321	279342
57	3024	312327	286776
58	3024	312983	279594
59	3024	310192	280728
60	3024	313959	305760
61	2982	309906	273966
62	3150	313315	277116
63	3024	308659	305004
64	3654	316606	349188
Totals	190,974	19,990,523	20,002,374

From Bottom to Top	Distance Between Perfs	Shots	Distance Between Perfs	Shots	Distance Between Perfs	Shots	Distance Between Perfs	Shots	Distance Between Perfs	Shots
11,507	25	0	11,443	0	11,293	0	11,132	0	10,948	0
11,601	19	0	11,428	0	11,278	19	11,117	14	10,969	19
11,642	20	0	11,410	0	11,256	24	11,103	18	10,930	18
11,682	19	0	11,390	0	11,232	16	11,084	22	10,911	16
11,722	19	0	11,370	0	11,210	18	11,062	19	10,912	21
11,764	19	0	11,351	0	11,201	18	11,048	17	10,901	17
11,804	19	0	11,332	0	11,179	19	11,029	21	10,874	19
11,845	15	0	11,313	0	11,160	0	11,008	0	10,858	0
11,870	5	0	11,293	0	11,140	0	10,988	0	10,838	0
Plug to Plug	147	44	Plug to Plug	44	Plug to Plug	181	Plug to Plug	44	Plug to Plug	44
Free Plug	11,837	Total Shots	11,480	Total Shots	11,303	Total Shots	11,162	Total Shots	10,968	Total Shots

From Bottom to Top	Distance Between Perfs	Shots	Distance Between Perfs	Shots	Distance Between Perfs	Shots	Distance Between Perfs	Shots	Distance Between Perfs	Shots
10,833	25	0	10,877	0	10,928	0	10,907	0	10,273	0
10,818	19	0	10,861	0	10,909	19	10,884	0	10,254	0
10,810	19	0	10,843	0	10,891	24	10,868	0	10,235	0
10,797	16	0	10,825	0	10,871	14	10,848	0	10,216	0
10,778	19	0	10,806	0	10,853	17	10,829	14	10,197	0
10,759	19	0	10,787	0	10,834	21	10,811	18	10,178	0
10,740	20	0	10,767	0	10,815	19	10,792	20	10,159	0
10,720	19	0	10,748	0	10,796	0	10,773	0	10,140	0
10,702	19	0	10,729	0	10,774	0	10,754	0	10,121	0
Plug to Plug	181	44	Plug to Plug	44	Plug to Plug	181	Plug to Plug	44	Plug to Plug	44
Free Plug	10,843	Total Shots	10,982	Total Shots	10,828	Total Shots	10,677	Total Shots	10,523	Total Shots

From Bottom to Top	Distance Between Perfs	Shots	Distance Between Perfs	Shots	Distance Between Perfs	Shots	Distance Between Perfs	Shots	Distance Between Perfs	Shots
10,070	21	0	9,918	0	9,765	0	9,607	0	9,458	0
10,053	23	0	9,900	0	9,747	19	9,593	19	9,440	0
10,033	18	0	9,880	0	9,727	19	9,574	19	9,421	0
10,019	23	0	9,861	0	9,708	19	9,555	19	9,402	0
9,993	22	0	9,841	0	9,689	22	9,536	19	9,383	0
9,976	19	0	9,823	0	9,671	19	9,517	19	9,364	0
9,956	12	0	9,803	0	9,651	24	9,498	19	9,345	0
9,944	8	0	9,784	0	9,632	0	9,482	0	9,329	0
Plug to Plug	148	44	Plug to Plug	44	Plug to Plug	180	Plug to Plug	44	Plug to Plug	44
Free Plug	10,040	Total Shots	9,934	Total Shots	9,778	Total Shots	9,617	Total Shots	9,473	Total Shots

From Bottom to Top	Distance Between Perfs	Shots	Distance Between Perfs	Shots	Distance Between Perfs	Shots	Distance Between Perfs	Shots	Distance Between Perfs	Shots
8,500	20	0	8,148	0	8,004	0	7,843	0	7,688	0
8,507	19	0	8,131	0	8,002	19	7,840	19	7,685	0
8,508	17	0	8,113	0	8,003	19	7,841	19	7,686	0
8,507	17	0	8,094	0	8,004	20	7,842	20	7,687	0
8,500	17	0	8,075	0	8,005	19	7,843	19	7,688	0
8,493	21	0	8,056	0	8,006	19	7,844	19	7,689	0
8,486	19	0	8,037	0	8,007	19	7,845	19	7,690	0
8,478	19	0	8,018	0	8,008	19	7,846	19	7,691	0
Plug to Plug	180	44	Plug to Plug	44	Plug to Plug	180	Plug to Plug	44	Plug to Plug	44
Free Plug	8,210	Total Shots	8,158	Total Shots	8,010	Total Shots	7,858	Total Shots	7,708	Total Shots

From Bottom to Top	Distance Between Perfs	Shots	Distance Between Perfs	Shots	Distance Between Perfs	Shots	Distance Between Perfs	Shots	Distance Between Perfs	Shots
8,441	20	0	8,389	0	8,331	0	8,283	0	8,235	0
8,433	19	0	8,370	0	8,312	19	8,264	19	8,227	0
8,424	19	0	8,351	0	8,293	19	8,245	19	8,218	0
8,415	19	0	8,332	0	8,274	19	8,226	19	8,209	0
8,406	23	0	8,313	0	8,255	19	8,207	19	8,190	0
8,397	15	0	8,294	0	8,236	19	8,188	19	8,181	0
8,388	14	0	8,275	0	8,217	19	8,169	19	8,162	0
8,379	14	0	8,256	0	8,198	19	8,150	19	8,143	0
Plug to Plug	182	44	Plug to Plug	44	Plug to Plug	182	Plug to Plug	44	Plug to Plug	44
Free Plug	8,481	Total Shots	8,389	Total Shots	8,291	Total Shots	8,193	Total Shots	8,105	Total Shots