

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NMOCD

Hobbs

HOBBS OGD

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

AUG 23 2017

RECEIVED

1a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other		5. Lease Serial No. NMNM132948	
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr. Other _____		6. Indian, Allottee or Tribe Name	
2. Name of Operator COG OPERATING LLC		7. Unit or CA Agreement Name and No.	
3. Address ONE CONCHO CENTER 600 W ILLINOIS AVENUE MIDLAND, TX 79701-4287		8. Lease Name and Well No. SKULL CAP FEDERAL COM 22H	
3a. Phone No. (include area code) Ph: 575.748.6946		9. API Well No. 30-025-43299-00-S1	
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface Sec 32 T24S R35E Mer NMP NWSE 2590FSL 1980FEL		10. Field and Pool, or Exploratory WC025G09S243532M-WOLFBONE	
At top prod interval reported below Sec 5 T25S R35E Mer NMP.		11. Sec., T., R., M., or Block and Survey or Area Sec 32 T24S R35E Mer NMP	
At total depth SWSE 67FSL 1947FEL		12. County or Parish LEA	
14. Date Spudded 09/05/2016		13. State NM	
15. Date T.D. Reached 10/04/2016		17. Elevations (DF, KB, RT, GL)* 3286 GL	
16. Date Completed ☐ D & A ☒ Ready to Prod. 12/31/2016			
18. Total Depth: MD 20175 TVD 12607	19. Plug Back T.D.: MD 20076 TVD 12607	20. Depth Bridge Plug Set: MD 20076 TVD 12607	
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
18.125	16.000 J-55	75.0	0	807		440		0	
13.500	10.750 N-80	45.5	0	5378		2160		0	
6.750	5.500 P-110	23.0	0	11650		1420		0	
9.875	7.625 P-110	29.7	0	11962		1480		0	
6.750	5.000 P-110	18.0	11650	20175					

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	11544	11535						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WOLFCAMP	12807	20051	12807 TO 20051	0.000	1764	OPEN
B)			20101 TO 20111		60	UNDER CBP
C)						
D)						

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

Depth Interval	Amount and Type of Material
12807 TO 20051	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
12/31/2016	12/31/2016	24	→	10.0	0.0	2819.0			FLows FROM WELL
Choke Size	Tbg. Press. Flwg. 3975 SI	Csg. Press. 1075.0	24 Hr. Rate →	Oil BBL 10	Gas MCF 0	Water BBL 2819	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
(ORIG. SCD) DAVID R. GLASS
AUG 07 2017

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

ELECTRONIC SUBMISSION #369746 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

DAVID R. GLASS

PETROLEUM ENGINEER

RECLAMATION DUE:

JUN 30 2017

Kz

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	5328	5352	OIL/GAS/WATER	RUSTLER	700
BELL CANYON	5353	6318		TOP OF SALT	1070
CHERRY CANYON	6319	7868		BASE OF SALT	4992
BRUSHY CANYON	7869	9138		DELAWARE	5328
BONE SPRING LIME	9139	10344		BELL CANYON	5353
BONE SPRING 1ST	10345	10903		CHERRY CANYON	6319
BONE SPRING 2ND	10904	11919		BRUSHY CANYON	7869
BONE SPRING 3RD	11920	12363		BONE SPRING LIME	9139
WOLFCAMP	12807	20051		BONE SPRING 1ST	10345
				BONE SPRING 2ND	10904
				BONE SPRING 3RD	11920
				WOLFCAMP	12364

32. Additional remarks (include plugging procedure):
Gas was connected to sales 1/6/17.

Surveys, perms & stimulation are attached.

Additional Tops:
1st Bone Spring 10345'
2nd Bone Spring 10904'
3rd Bone Spring 11920'

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 #369746 Verified by the BLM Well Information System.
For COG OPERATING LLC, sent to the Hobbs
Committed to AFMSS for processing by DEBORAH HAM on 03/29/2017 (17DMH0113SE)

Name (please print) STORMI DAVISTitle REGULATORY ANALYST

Signature _____ (Electronic Submission)

Date 03/14/2017

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

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

SKULL CAP FEDERAL COM #22H (30-025-43299)

<u>Perfs</u>	<u>7 1/2% Acid (Gal)</u>	<u>Sand (#)</u>	<u>Fluid (Gal)</u>
1	3024	300484	299628
2	3024	301916	306894
3	3024	298133	419328
4	3024	301459	301098
5	3024	301790	298284
6	3024	299648	296016
7	3024	299192	297990
8	3024	303122	293160
9	3024	296400	290766
10	3066	300131	293412
11	3024	300400	292866
12	3024	300010	286146
13	3024	299016	290094
14	3024	299199	290430
15	3024	299432	294882
16	3066	297764	290220
17	2982	300399	296520
18	3024	299532	288708
19	3108	316613	363594
20	3024	300204	291984
21	3024	298646	297570
22	3024	298635	288750
23	3024	300353	293538
24	3066	299641	293286
25	3024	301451	291186
26	7560	298745	374682
27	3024	300630	289590
28	3024	299043	289212
29	3024	300289	292866
30	3024	300199	289968
31	3024	300334	288834
32	3024	301418	286902
33	3024	300578	286944
34	3024	300474	288918
35	3024	298766	286482
36	3024	300009	286356
37	2940	300554	285096
38	3024	300935	287994
39	3024	300986	288792
40	3024	300453	289590
41	3024	301566	283962
42	3234	300659	284088
43	3066	300655	283962
44	3024	300415	285852
45	3024	300782	286566
46	3024	300247	284928
47	4536	299961	334866
48	2268	300012	285852
49	2268	301426	287322
Totals	153,048	14,722,706	14,575,974

Skull Cap Federal Com #22H
30-025-43299

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
	20,051	50	14	19,909	43	14	19,754	49	14	19,904	50	14	19,453	54	14
	20,001	49	12	19,848	45	12	19,704	50	12	19,553	48	12	19,408	50	12
	19,952		10	19,803		10	19,654		10	19,507		10	19,359		10
	Plug to Plug	149	36	Plug to Plug	147	36	Plug to Plug	152	36	Plug to Plug	148	36	Plug to Plug	163	36
	Frac Plug	20,078	Total Shots	Frac Plug	19,927	Total Shots	Frac Plug	19,780	Total Shots	Frac Plug	19,628	Total Shots	Frac Plug	19,480	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
	19,307	49	14	18,158	50	14	19,009	49	14	18,860	50	14	18,713	50	14
	19,257	49	12	18,112	53	12	18,959	49	12	18,811		12	18,667	55	12
	19,208		10	18,057		10	18,910		10			10	18,612		10
	Plug to Plug	137	36	Plug to Plug	148	36	Plug to Plug	162	36	Plug to Plug	138	36	Plug to Plug	149	36
	Frac Plug	19,329	Total Shots	Frac Plug	18,183	Total Shots	Frac Plug	19,034	Total Shots	Frac Plug	18,872	Total Shots	Frac Plug	18,738	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
	18,583	49	14	18,418	49	14	18,260	54	14	18,118	50	14	17,987	50	14
	18,513	50	12	18,364	50	12	18,215	49	12	18,066	49	12	17,919	45	12
	18,463		10	18,314		10	18,166		10	18,017		10	17,874		10
	Plug to Plug	158	36	Plug to Plug	139	36	Plug to Plug	148	36	Plug to Plug	154	36	Plug to Plug	145	36
	Frac Plug	18,587	Total Shots	Frac Plug	18,429	Total Shots	Frac Plug	18,280	Total Shots	Frac Plug	18,142	Total Shots	Frac Plug	17,988	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
	17,810	58	14	17,669	50	14	17,521	49	14	17,372	58	14	17,223	50	14
	17,769	50	12	17,620	50	12	17,471	43	12	17,322	49	12	17,173	49	12
	17,719		10	17,570		10	17,428		10	17,273		10	17,124		10
	Plug to Plug	182	36	Plug to Plug	136	36	Plug to Plug	148	36	Plug to Plug	181	36	Plug to Plug	137	36
	Frac Plug	17,843	Total Shots	Frac Plug	17,681	Total Shots	Frac Plug	17,546	Total Shots	Frac Plug	17,397	Total Shots	Frac Plug	17,238	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
	17,076	48	14	16,925	50	14	16,778	50	14	16,631	48	14	16,479	49	14
	17,022	47	12	16,879	50	12	16,727	50	12	16,578	50	12	16,429	50	12
	16,975		10	16,829		10	16,677		10	16,528		10	16,379		10
	Plug to Plug	149	36	Plug to Plug	156	36	Plug to Plug	142	36	Plug to Plug	149	36	Plug to Plug	223	36
	Frac Plug	17,099	Total Shots	Frac Plug	16,958	Total Shots	Frac Plug	16,794	Total Shots	Frac Plug	16,652	Total Shots	Frac Plug	16,503	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
	16,265	114	14	16,188	45	14	16,032	50	14	15,883	50	14	15,736	54	14
	16,248	17	12	16,131	49	12	15,982	49	12	15,834	48	12	15,685	50	12
	16,231		10	16,082		10	15,933		10	15,786		10	15,635		10
	Plug to Plug	74	36	Plug to Plug	148	36	Plug to Plug	153	36	Plug to Plug	148	36	Plug to Plug	143	36
	Frac Plug	16,289	Total Shots	Frac Plug	16,208	Total Shots	Frac Plug	16,059	Total Shots	Frac Plug	15,917	Total Shots	Frac Plug	15,769	Total Shots

From Bottom to Top	Stage 31	Distance Between Perfs	Shots	Stage 32	Distance Between Perfs	Shots	Stage 33	Distance Between Perfs	Shots	Stage 34	Distance Between Perfs	Shots	Stage 35	Distance Between Perfs	Shots
	15,588	49	14	15,437	49	14	15,285	48	14	15,139	50	14	14,990	53	14
	15,538	50	12	15,387	56	12	15,238	49	12	15,089	49	12	14,941	45	12
	15,489		10	15,331		10	15,189		10	15,040		10	14,890		10
	Plug to Plug	156	36	Plug to Plug	147	36	Plug to Plug	145	36	Plug to Plug	155	36	Plug to Plug	147	36
	Frac Plug	15,618	Total Shots	Frac Plug	15,460	Total Shots	Frac Plug	15,313	Total Shots	Frac Plug	15,168	Total Shots	Frac Plug	15,013	Total Shots

From Bottom to Top	Stage 36	Distance Between Perfs	Shots	Stage 37	Distance Between Perfs	Shots	Stage 38	Distance Between Perfs	Shots	Stage 39	Distance Between Perfs	Shots	Stage 40	Distance Between Perfs	Shots
	14,841	55	14	14,682	50	14	14,544	49	14	14,395	49		14,248	50	14
	14,792	50	12	14,643	50	12	14,500	55	12	14,348	49		14,198	49	12
	14,742		10	14,593		10	14,444		10	14,298			14,147		10
	Plug to Plug	181	36	Plug to Plug	137	36	Plug to Plug	148	36	Plug to Plug	157	0	Plug to Plug	141	36
	Frac Plug	14,866	Total Shots	Frac Plug	14,705	Total Shots	Frac Plug	14,568	Total Shots	Frac Plug	14,429	Total Shots	Frac Plug	14,283	Total Shots

From Bottom to Top	Stage 41	Distance Between Perfs	Shots	Stage 42	Distance Between Perfs	Shots	Stage 43	Distance Between Perfs	Shots	Stage 44	Distance Between Perfs	Shots	Stage 45	Distance Between Perfs	Shots
	14,099	48	14	13,948	50	14	13,799	50	14	13,655	45	14	13,502	49	14
	14,044	48	12	13,899	50	12	13,750	50	12	13,601	50	12	13,452	50	12
	13,990		10	13,848		10	13,700		10	13,551		10	13,402		10
	Plug to Plug	149	36	Plug to Plug	156	36	Plug to Plug	142	36	Plug to Plug	145	36	Plug to Plug	153	36
	Frac Plug	14,122	Total Shots	Frac Plug	13,973	Total Shots	Frac Plug	13,817	Total Shots	Frac Plug	13,675	Total Shots	Frac Plug	13,538	Total Shots

From Bottom to Top	Stage 46	Distance Between Perfs	Shots	Stage 47	Distance Between Perfs	Shots	Stage 48	Distance Between Perfs	Shots	Stage 49	Distance Between Perfs	Shots	Stage 50	Distance Between Perfs	Shots
	13,353	49	14	13,204	55	14	13,055	50	14	12,901	55	14	12,807		
	13,303	44	12	13,154	49	12	13,005	50	12	12,857	50	12			
	13,258		10	13,105		10	12,956		10	12,807		10			
	Plug to Plug	148	36	Plug to Plug	149	36	Plug to Plug	140	36	Plug to Plug	12931	36	Plug to Plug	0	0
	Frac Plug	13,377	Total Shots	Frac Plug	13,229	Total Shots	Frac Plug	13,080	Total Shots	Frac Plug	12,931	Total Shots	Frac Plug		Total Shots