

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NMOCD
Hobbs

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other			5. Lease Serial No. NMLC029519A		
b. Type of Completion <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resvr. Other _____			6. If 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. MAS FEDERAL 4H		
3a. Phone No. (include area code) Ph: 575.748.6946			9. API Well No. 30-025-43482-00-S1		
4. Location of Well (Report location clearly and in accordance with Federal requirements)* Sec 34 T20S R34E Mer NMP At surface NENW 190FNL 2440FWL 32.536323 N Lat, 103.548749 W Lon At top prod interval reported below Sec 34 T20S R34E Mer NMP At total depth SESW 224FSL 1949FWL			10. Field and Pool, or Exploratory WC025G08S203429P-WOLFCAMP		
14. Date Spudded 12/01/2016			15. Date T.D. Reached 12/22/2016		
16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 01/25/2017			17. Elevations (DF, KB, RT, GL)* 3720 GL		
18. Total Depth: MD 15972 TVD 11371			19. Plug Back T.D.: MD 15890 TVD 11371		
20. Depth Bridge Plug Set: MD TVD			22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Directional Survey? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (Submit analysis)		
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) NONE					

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 J-55	54.5	0	1722		1250		0	
12.250	9.625 J-55	40.0	0	5788	3634	3890		0	
8.750	5.500 P-110	17.0	0	15962		2600		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	10771	10762						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WOLFCAMP	11468	15860	11468 TO 15860	0.000	1232	OPEN
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
11468 TO 15860	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
01/30/2017	01/30/2017	24	→	525.0	464.0	2852.0			FLows FROM WELL
Choke Size	Tbg. Press. Flwg. 1900 SI	Csg. Press. 1550.0	24 Hr. Rate →	Oil BBL 525	Gas MCF 464	Water BBL 2852	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	

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

ELECTRONIC SUBMISSION #367579 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

RECLAMATION DUE:
JUL 25 2017

DAVID R. GLASS
PETROLEUM ENGINEER

HOBBS OCD

MAR 31 2017

RECEIVED

ACCEPTED FOR RECORD
(DAVID R. GLASS)

MAR 20 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
CHERRY CANYON	5786	6741		RUSTLER	1603
BRUSHY CANYON	6742	8605		TOP OF SALT	1729
BONE SPRING LIME	8606	9712		BASE OF SALT	3361
BONE SPRING 1ST	9713	10186		YATES	3537
BONE SPRING 2ND	10187	11046		SEVEN RIVERS	3721
BONE SPRING 3RD	11047	11220		CAPITAN REEF	3784
WOLFCAMP	11468	15972		CHERRY CANYON	5786
				BRUSHY CANYON	6742
				BONE SPRING LIME	8606
				BONE SPRING 1ST	9713
				BONE SPRING 2ND	10187
				BONE SPRING 3RD	11047
				WOLFCAMP	11221

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

Additional Tops:
Bone Spring Lm 8606'
1st Bone Spring 9713'
2nd Bone Spring 10187'
3rd Bone Spring 11047'
Wolfcamp 11221'

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 #367579 Verified by the BLM Well Information System.

For COG OPERATING LLC, sent to the Hobbs

Committed to AFMSS for processing by DUNCAN WHITLOCK on 03/13/2017 (17DW0028SE)

Name (please print) STORMI DAVIS

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 02/20/2017

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 ** REVISED **

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
	15,860	40	14	15,877	64	14	15,548	35	14	15,385	40	14	15,230	36	14
	15,820	39	12	15,849	33	12	15,504	40	12	15,346	40	12	15,187	39	12
	15,781	40	10	15,816	33	10	15,484	39	10	15,306	40	10	15,148	40	10
	15,741		8	15,583		8	15,425		8	15,266		8	15,108		8
	Plug to Plug	149	44	Plug to Plug	109	44	Plug to Plug	138	44	Plug to Plug	132	44	Plug to Plug	139	44
	Frac Plug	15,896	Total Shots	Frac Plug	15,692	Total Shots	Frac Plug	15,563	Total Shots	Frac Plug	15,398	Total Shots	Frac Plug	15,247	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
	15,069	39	14	14,908	42	14	14,752	40	14	14,594	39	14	14,436	35	14
	15,029	39	12	14,871	40	12	14,713	40	12	14,554	39	12	14,396	40	12
	14,990	40	10	14,831	39	10	14,673	40	10	14,515	44	10	14,356	39	10
	14,950		8	14,792		8	14,633		8	14,471		8	14,317		8
	Plug to Plug	134	44	Plug to Plug	138	44	Plug to Plug	135	44	Plug to Plug	143	44	Plug to Plug	138	44
	Frac Plug	15,984	Total Shots	Frac Plug	14,936	Total Shots	Frac Plug	14,768	Total Shots	Frac Plug	14,614	Total Shots	Frac Plug	14,455	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
	14,277	40	14	14,119	45	14	13,960	40	14	13,805	44	14	13,644	40	14
	14,238	40	12	14,079	39	12	13,921	39	12	13,763	40	12	13,605	40	12
	14,198	34	10	14,040	40	10	13,882	33	10	13,723	39	10	13,565	40	10
	14,164		8	14,000		8	13,848		8	13,684		8	13,525		8
	Plug to Plug	124	44	Plug to Plug	139	44	Plug to Plug	121	44	Plug to Plug	138	44	Plug to Plug	130	44
	Frac Plug	14,288	Total Shots	Frac Plug	14,139	Total Shots	Frac Plug	13,970	Total Shots	Frac Plug	13,822	Total Shots	Frac Plug	13,655	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
	13,489	36	14	13,328	39	14	13,170	37	14	13,011	40	14	12,855	35	14
	13,446	39	12	13,288	39	12	13,130	40	12	12,972	40	12	12,813	39	12
	13,407	40	10	13,249	42	10	13,090	39	10	12,932	41	10	12,774	40	10
	13,367		8	13,207		8	13,051		8	12,891		8	12,734		8
	Plug to Plug	139	44	Plug to Plug	131	44	Plug to Plug	138	44	Plug to Plug	130	44	Plug to Plug	139	44
	Frac Plug	13,506	Total Shots	Frac Plug	13,338	Total Shots	Frac Plug	13,189	Total Shots	Frac Plug	13,021	Total Shots	Frac Plug	12,873	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
	12,695	39	14	12,540	35	14	12,378	40	14	12,224	35	14	12,060	41	14
	12,655	40	12	12,497	40	12	12,338	39	12	12,180	39	12	12,022	40	12
	12,615	40	10	12,457	39	10	12,299	40	10	12,141	40	10	11,982	39	10
	12,575		8	12,418		8	12,259		8	12,101		8	11,943		8
	Plug to Plug	130	44	Plug to Plug	138	44	Plug to Plug	131	44	Plug to Plug	139	44	Plug to Plug	127	44
	Frac Plug	12,705	Total Shots	Frac Plug	12,556	Total Shots	Frac Plug	12,390	Total Shots	Frac Plug	12,240	Total Shots	Frac Plug	12,070	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
	11,908	35	14	11,745	39	14	11,591	34	14		11468			0	
	11,884	40	12	11,705	39	12	11,547	39	12						
	11,824	40	10	11,686	41	10	11,508	40	10						
	11,784		8	11,625		8	11,468		8						
	Plug to Plug	139	44	Plug to Plug	133	44	Plug to Plug	136	44	Plug to Plug	0	0	Plug to Plug	0	0
	Frac Plug	11,923	Total Shots	Frac Plug	11,758	Total Shots	Frac Plug	11,606	Total Shots	Frac Plug		Total Shots	Frac Plug		Total Shots

MAS FEDERAL #4H (30-025-43482)

<u>Perfs</u>	<u>7 1/2% Acid (Gal)</u>	<u>Sand (#)</u>	<u>Fluid (Gal)</u>
1	1512	314383	310506
2	4536	314255	343224
3	3024	313277	325458
4	3024	310006	332262
5	3024	313086	334026
6	3024	313597	326970
7	3024	311661	327726
8	3024	310593	322728
9	3066	312890	330204
10	3024	312743	329658
11	3024	313190	339276
12	3024	312420	349776
13	3024	312850	321510
14	3108	313796	328440
15	3234	312911	323484
16	3024	313028	322434
17	3024	311517	326508
18	3066	314088	315966
19	3024	313345	325794
20	3024	312896	325710
21	3024	314584	321048
22	3024	313402	351540
23	3024	314355	322896
24	3024	312318	323064
25	3066	311464	320544
26	3066	310857	321300
27	3024	314641	322602
28	3024	311934	325920
Totals	85134	8760087	9170574

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
	15,860	40	14	15,677	64	14	15,548	35	14	15,385	40	14	15,230	36	14
	15,820	39	12	15,649	33	12	15,504	40	12	15,346	40	12	15,187	39	12
	15,781	40	10	15,616	33	10	15,464	39	10	15,306	40	10	15,148	40	10
	15,741		8	15,583		8	15,425		8	15,266		8	15,108		8
	Plug to Plug	149	44	Plug to Plug	109	44	Plug to Plug	138	44	Plug to Plug	132	44	Plug to Plug	139	44
	Frac Plug	15,890	Total Shots	Frac Plug	15,692	Total Shots	Frac Plug	15,563	Total Shots	Frac Plug	15,398	Total Shots	Frac Plug	15,247	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
	15,069	39	14	14,908	42	14	14,752	40	14	14,594	39	14	14,436	35	14
	15,029	39	12	14,871	40	12	14,713	40	12	14,554	39	12	14,396	40	12
	14,990	40	10	14,831	39	10	14,673	40	10	14,515	44	10	14,356	39	10
	14,950		8	14,792		8	14,633		8	14,471		8	14,317		8
	Plug to Plug	134	44	Plug to Plug	138	44	Plug to Plug	135	44	Plug to Plug	143	44	Plug to Plug	138	44
	Frac Plug	15,084	Total Shots	Frac Plug	14,930	Total Shots	Frac Plug	14,768	Total Shots	Frac Plug	14,614	Total Shots	Frac Plug	14,455	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
	14,277	40	14	14,119	45	14	13,960	40	14	13,805	44	14	13,644	40	14
	14,238	40	12	14,079	39	12	13,921	39	12	13,763	40	12	13,605	40	12
	14,198	34	10	14,040	40	10	13,882	33	10	13,723	39	10	13,565	40	10
	14,164		8	14,000		8	13,849		8	13,684		8	13,525		8
	Plug to Plug	124	44	Plug to Plug	139	44	Plug to Plug	121	44	Plug to Plug	138	44	Plug to Plug	130	44
	Frac Plug	14,288	Total Shots	Frac Plug	14,139	Total Shots	Frac Plug	13,970	Total Shots	Frac Plug	13,822	Total Shots	Frac Plug	13,655	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
	13,489	36	14	13,328	39	14	13,170	37	14	13,011	40	14	12,856	35	14
	13,446	39	12	13,288	39	12	13,130	40	12	12,972	40	12	12,813	39	12
	13,407	40	10	13,249	42	10	13,090	39	10	12,932	41	10	12,774	40	10
	13,367		8	13,207		8	13,051		8	12,891		8	12,734		8
	Plug to Plug	139	44	Plug to Plug	131	44	Plug to Plug	138	44	Plug to Plug	130	44	Plug to Plug	139	44
	Frac Plug	13,506	Total Shots	Frac Plug	13,338	Total Shots	Frac Plug	13,189	Total Shots	Frac Plug	13,021	Total Shots	Frac Plug	12,873	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
	12,695	39	14	12,540	35	14	12,378	40	14	12,224	35	14	12,060	41	14
	12,655	40	12	12,497	40	12	12,338	39	12	12,180	39	12	12,022	40	12
	12,615	40	10	12,457	39	10	12,299	40	10	12,141	40	10	11,982	39	10
	12,575		8	12,418		8	12,259		8	12,101		8	11,943		8
	Plug to Plug	130	44	Plug to Plug	138	44	Plug to Plug	131	44	Plug to Plug	139	44	Plug to Plug	127	44
	Frac Plug	12,705	Total Shots	Frac Plug	12,556	Total Shots	Frac Plug	12,390	Total Shots	Frac Plug	12,240	Total Shots	Frac Plug	12,070	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
	11,908	35	14	11,745	39	14	11,591	34	14		11468			0	
	11,864	40	12	11,705	39	12	11,547	39	12						
	11,824	40	10	11,666	41	10	11,508	40	10						
	11,784		8	11,625		8	11,468		8						
	Plug to Plug	139	44	Plug to Plug	133	44	Plug to Plug	138	44	Plug to Plug	0	0	Plug to Plug	0	0
	Frac Plug	11,923	Total Shots	Frac Plug	11,758	Total Shots	Frac Plug	11,606	Total Shots	Frac Plug		Total Shots	Frac Plug		Total Shots