

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Hobbs

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
NMNM124664

1a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other			6. If Indian, Allottee or Tribe Name		
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr. Other _____			7. Unit or CA Agreement Name and No.		
2. Name of Operator COG OPERATING LLC			Contact: STORMI DAVIS		
3. Address ONE CONCHO CENTER 600 W ILLINOIS AVENUE MIDLAND, TX 79701-4287			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 Sec 8 T26S R34E Mer NMP SWSE 190FSL 1520FEL At top prod interval reported below Sec 5 T26S R34E Mer NMP At total depth SWNE 160FNL 1582FEL 1583/E			9. API Well No. 30-025-41180-00-S1		
14. Date Spudded 06/13/2013			15. Date T.D. Reached 07/15/2013		
16. Date Completed ☐ D & A ☒ Ready to Prod. 06/12/2014			17. Elevations (DF, KB, RT, GL)* 3342 GL		
18. Total Depth: MD 18372 TVD 9812			19. Plug Back T.D.: MD 18327 TVD 9812		
20. Depth Bridge Plug Set: MD TVD			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 J-55	54.5	0	812		650		0	
12.250	9.625 J-55	40.0	0	5208		1700		0	
7.875	5.500 P-110	17.0	0	18372	8036	4100		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	9996							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) BONE SPRING	10027	18207	10027 TO 18207	0.000	1810	OPEN
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
10027 TO 18207	190428 GAL 7 1/2% ACID; 12447022# SAND; 13331178 GAL FLUID

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
04/13/2014	07/08/2014	24	→	1059.0	1850.0	2572.0		
Choke Size	Tbg. Press. Flwg. 220 SI	Csg. Press.	24 Hr. Rate →	Oil BBL 1059	Gas MCF 1850	Water BBL 2572	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
			→						DECLARATION
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	DUE 12-12-14

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

ELECTRONIC SUBMISSION #253412 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

SEP 12 2014

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.)
FLARED

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 BONE SPRING	5342 9615	9614 9812		RUSTLER TOP OF SALT BASE OF SALT DELAWARE BELL CANYON CHERRY CANYON BRUSHY CANYON	717 1104 5083 5342 5387 6391 8128

32. Additional remarks (include plugging procedure):
Detailed stimulation information and surveys previously submitted.

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 #253412 Verified by the BLM Well Information System.
For COG OPERATING LLC, sent to the Hobbs
Committed to AFMSS for processing by DUNCAN WHITLOCK on 07/18/2014 (14DW0055SE)**

Name(please print) STORMI DAVISTitle REGULATORY ANALYST

Signature _____ (Electronic Submission)

Date 07/17/2014

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 ****

Gunner 8 Federal #5H (30-025-41180)**Sec 8-T26S-R34E**

<u>Stages</u>	<u>7 1/2% Acid (Gals)</u>	<u>Proppant (#)</u>	<u>Clean Fluid (Gals)</u>
1	1512	218704	210882
2	6006	254262	444990
3	4662	209692	258216
4	4998	137841	298956
5	2688	253478	310002
6	3024	248639	262290
7	3024	242973	277494
8	3024	247863	270228
9	4704	246724	317478
10	4452	243893	260694
11	4536	255493	285054
12	4914	257680	279972
13	4536	255757	280308
14	9282	257030	350910
15	4494	189831	255402
16	4494	287810	274764
17	3024	288527	274680
18	3066	254588	255612
19	9786	252463	325836
20	3150	245125	255864
21	3192	254195	254226
22	3024	254322	254478
23	3024	255213	252378
24	3066	253240	253134
25	3024	254833	253218
26	4536	253256	272202
27	3066	254071	254058
28	4578	254093	267708
29	4578	251846	264852
30	2940	251826	249438
31	3024	253719	249438
32	3024	255372	249564
33	3150	252495	248934
34	3024	252197	248850
35	3570	253334	251538
36	3024	253869	244398
37	3108	254224	249816
38	4536	252142	258048
39	4536	252665	266868
40	3276	247926	255108
41	3024	254962	247254
42	3024	254507	247002
43	3024	255018	248850
44	3024	251967	246120
45	3024	254857	249060
46	3024	251275	252210
47	4536	253405	260442
48	3024	255277	245910
49	3024	254388	245574
50	3024	248155	240870
Totals	190428	12447022	13331178

(entered data to be carried to each stage)

Fluid Database

Proppant Database

Chemical Database

Date
Pressure test4/14/2014
9500Well Name/number
Casing 1 size
Capacity-bbls/in. ft.
Top of Casing
TD of casing
TVDGunner 8 Fed Com #5H
5 1/2
0.0232
0
18,372
9825
Casing 2 size
Capacity-bbls/in. ft.
Top of Casing
TD of casing

1	Water Frac G -R(3)
2	7.5 % Acid
3	Treated Water
4	Water Frac G -R(11)
5	Hybor G -R(11)
6	Water Frac G -R(15)
7	
8	

1	100 Mesh
2	40/70 White
3	
4	
5	
6	
7	
8	

1	FR-38
2	FR-48
3	MO-67
4	BE-9
5	Cla-Sta XP
6	Clay Web
7	FDP
8	D-Air
9	HPH Breaker
10	Optikleen-WF

	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
From Bottom to Top	18,207	50	14	17,746	361	14	17,350	51	14	17,130	117	14	17,043	47	14
	18,157	50	12	17,631	115	12	17,299	52	12	17,110	20	12	16,991	51	12
	18,107		10	17,516	115	10	17,247		10	17,090		10	16,940		10
				17,401		10									
	Perforated feet	100	36	Perforated feet	345	46	Perforated feet	103	36	Perforated feet	40	36	Perforated feet	103	36
	Frac Plug	18,240	Total Shots	Frac Plug	17,780	Total Shots	Frac Plug	17,375	Total Shots	Frac Plug	17,148	Total Shots	Frac Plug	17,058	Total Shots

	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
From Bottom to Top	16,889	51	14	16,735	51	14	16,582	51	14	16,428	51	14	16,274	52	14
	16,838	52	12	16,684	51	12	16,530	51	12	16,377	51	12	16,223	51	12
	16,786		10	16,633		10	16,479		10	16,326		10	16,172		10
	Perforated feet	103	36	Perforated feet	102	36	Perforated feet	102	36	Perforated feet	102	36	Perforated feet	103	36
	Frac Plug	16,917	Total Shots	Frac Plug	16,761	Total Shots	Frac Plug	16,607	Total Shots	Frac Plug	16,454	Total Shots	Frac Plug	16,300	Total Shots

	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
From Bottom to Top	16,121	51	14	15,967	51	14	15,813	52	14	15,660	51	14	15,506	51	14
	16,070	52	12	15,916	51	12	15,762	51	12	15,609	52	12	15,455	51	12
	16,018		10	15,865		10	15,711		10	15,557		10	15,404		10
	Perforated feet	103	36	Perforated feet	102	36	Perforated feet	103	36	Perforated feet	103	36	Perforated feet	102	36
	Frac Plug	16,148	Total Shots	Frac Plug	15,993	Total Shots	Frac Plug	15,832	Total Shots	Frac Plug	15,685	Total Shots	Frac Plug	15,532	Total Shots

	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
From Bottom to Top	15,353	51	14	15,199	51	14	15,045	52	14	14,892	51	14	14,738	51	14
	15,301	51	12	15,148	51	12	14,994	51	12	14,841	52	12	14,687	51	12
	15,250		10	15,097		10	14,943		10	14,789		10	14,636		10
	Perforated feet	102	36	Perforated feet	102	36	Perforated feet	103	36	Perforated feet	103	36	Perforated feet	102	36
	Frac Plug	15,369	Total Shots	Frac Plug	15,225	Total Shots	Frac Plug	15,071	Total Shots	Frac Plug	14,912	Total Shots	Frac Plug	14,764	Total Shots

	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
From Bottom to Top	14,584	52	14	14,431	51	14	14,277	51	14	14,124	51	14	13,970	51	14
	14,533	51	12	14,380	52	12	14,226	51	12	14,072	51	12	13,919	51	12
	14,482		10	14,328		10	14,175		10	14,021		10	13,868		10
	Perforated feet	103	36	Perforated feet	103	36	Perforated feet	102	36	Perforated feet	102	36	Perforated feet	102	36
	Frac Plug	14,610	Total Shots	Frac Plug	14,456	Total Shots	Frac Plug	14,310	Total Shots	Frac Plug	14,149	Total Shots	Frac Plug	13,996	Total Shots

	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
From Bottom to Top	13,800	68	14	13,663	51	14	13,482	78	14	13,330	77	14	13,202	51	14
	13,765	51	12	13,611	51	12	13,444	37	12	13,304	51	12	13,151	52	12
	13,714		10	13,560		10	13,407		10	13,253		10	13,099		10
	Perforated feet	119	36	Perforated feet	102	36	Perforated feet	115	36	Perforated feet	128	36	Perforated feet	103	36
	Frac Plug	13,826	Total Shots	Frac Plug	13,688	Total Shots	Frac Plug	13,496	Total Shots	Frac Plug	13,350	Total Shots	Frac Plug	13,227	Total Shots

	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
From Bottom to Top	13,048	51	14	12,895	51	14	12,741	51	14	12,587	51	14	12,434	51	14
	12,997	51	12	12,843	51	12	12,690	52	12	12,536	51	12	12,382	51	12
	12,946		10	12,792		10	12,638		10	12,485		10	12,331		10
	Perforated feet	102	36	Perforated feet	102	36	Perforated feet	103	36	Perforated feet	102	36	Perforated feet	102	36
	Frac Plug	13,077	Total Shots	Frac Plug	12,920	Total Shots	Frac Plug	12,766	Total Shots	Frac Plug	12,616	Total Shots	Frac Plug	12,459	Total Shots

