Form 3160-5
(June 2015)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on page 2

5. Lease Serial No.
NMNM113937

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
CRAIG FEDERAL COM 12H

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

9. API Well No.
30-015-44208

3a. Address
2208 WEST MAIN
ARTESIA, NM 88210

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

10. Field and Pool or Exploratory Area
WILDCAT; BONE SPRING

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Sec 1 T26S R26E Mer NMP NWNW 675FNL 790FWL

11. County or Parish, State
EDDY COUNTY, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☒ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

9/15/17 to 10/21/17 Test annulus to 1500# for 30 mins. Good test. Ran CBL. TOC @ 1170'. Set CBP @ 18665'. Perf 8729-18640' (2816). Acdz w/146,832 gals 15% acid. Frac w/19,894,912# sand and 22,086,236 gals fluid.

10/29/17 to 11/1/17 Drilled out CFP's. Clean down to CBP @ 18665'.
11/2/17 Set 2 7/8" 6.5# L-80 tbg @ 7238' & pkr @ 7228'. Installed gas-lift system.

11/8/17 Began flowing back & testing.

11/9/17 Date of first production.

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #396895 verified by the BLM Well Information System
For COG OPERATING LLC, sent to the Carlsbad

Name *(Printed/Typed)* STORMI DAVIS — Title PREPARER

Signature (Electronic Submission) — Date 12/05/2017

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By — Title — Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. — Office

Pending BLM approvals will subsequently be reviewed and scanned
BC 12-19-17

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowing States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdi — nited

(Instructions on page 2)

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED

NM OIL CONSERVATION
ARTESIA DISTRICT
DEC 07 2017
RECEIVED

Form 3160-4
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No. NMNM113937

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.: CRAIG FEDERAL COM 12H

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

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

9. API Well No.: 30-015-44208

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
At surface: Sec 1 T26S R26E Mer NMP NWNW 675FNL 790FWL
At top prod interval reported below: Sec 25 T25S R26E Mer NMP
At total depth: NWNW 210FNL 329FWL

10. Field and Pool, or Exploratory: WILDCAT; BONE SPRING

11. Sec., T., R., M., or Block and Survey or Area: Sec 1 T26S R26E Mer NMP

12. County or Parish: EDDY

13. State: NM

14. Date Spudded: 07/23/2017

15. Date T.D. Reached: 08/10/2017

16. Date Completed: ☐ D & A ☒ Ready to Prod. 11/08/2017

17. Elevations (DF, KB, RT, GL)*: 3370 GL

18. Total Depth: MD 18767 TVD 7912

19. Plug Back T.D.: MD 18665 TVD 7914

20. Depth Bridge Plug Set: MD 18665 TVD 7914

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	446		450		0	
12.250	9.625 J55	40.0	0	2381		935		0	
8.750	5.500 P110	17.0	0	18750		2895		1170	

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	7238	7228						

25. Producing Intervals / 26. Perforation Record

	Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A)	BONE SPRING	8729	18640	8729 TO 18640	0.430	2816	OPEN
B)							
C)							
D)							

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

Depth Interval	Amount and Type of Material
8729 TO 18640	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
11/09/2017	11/09/2017	24	→	41.0	0.0	1471.0			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
28/64	600	400.0	→	41	0	1471		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
			→					

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

ELECTRONIC SUBMISSION #396903 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OP**

Pending BLM approvals will subsequently be reviewed and scanned

SC 12-19-17

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	2020	2059		LAMAR	2020
BELL CANYON	2060	2924		BELL CANYON	2060
CHERRY CANYON	2925	4027		CHERRY CANYON	2925
BRUSHY CANYON	4028	5598		BRUSHY CANYON	4028
BONE SPRING LM	5599	6542		BONE SPRING LM	5599
1ST BONE SPRING	6543	7333		1ST BONE SPRING	6543
2ND BONE SPRING	7334	7926		2ND BONE SPRING	7334

32. Additional remarks (include plugging procedure):
Surveys and Perfs/Stimulation are attached.

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 #396903 Verified by the BLM Well Information System.
For COG OPERATING LLC, sent to the Carlsbad

Name *(please print)* STORMI DAVIS Title PREPARER

Signature (Electronic Submission) Date 12/05/2017

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 ****

CRAIG FEDERAL COM #12H (30-015-44208)

Perfs	15% Acid (Gal)	Sand (#)	Fluid (Gal)
1	756	312983	355824
2	2394	311002	372876
3	2268	310331	365064
4	2268	314469	365358
5	2268	312777	363174
6	2268	311154	405090
7	2268	311461	368214
8	2352	313173	355908
9	2268	312028	355698
10	2268	313163	346584
11	2268	313535	354060
12	2226	312638	346332
13	2310	314847	356916
14	2268	312945	353346
15	2226	313926	343014
16	2268	313038	351330
17	2268	309195	344232
18	2268	313010	429912
19	2268	311046	343686
20	2268	311999	353052
21	2268	309495	334362
22	2268	262859	381276
23	2268	312115	349398
24	2268	312071	367164
25	2268	312586	339948
26	2268	313039	349692
27	2268	286902	335370
28	2268	312023	336924
29	2310	312066	347256
30	2268	313169	343560
31	2310	312192	336252
32	2310	310557	400260
33	2310	313194	325878
34	2268	312163	312554
35	2268	313477	348390
36	2268	312996	362502
37	2268	311759	329994
38	2268	312248	330330
39	2226	312855	345450
40	2268	312031	334782
41	2268	313305	370608
42	2268	312017	326214
43	2268	312045	326676
44	2310	312395	318318
45	2268	313066	341502
46	2268	312591	316260
47	2226	312706	334530
48	2268	312973	346038
49	2268	311800	298032
50	2268	314062	318234
51	2268	313200	310800
52	2310	314297	367290
53	2268	311080	319914
54	2310	312044	338310
55	2310	312680	337428
56	2268	312625	326466
57	2268	310566	320166
58	2268	312055	318360
59	2268	312031	336252
60	2268	307911	333984
61	3108	309599	317352
62	3108	311768	344274
63	2814	307026	328440
64	2814	302553	349776
Totals	**146,832**	**19,894,912**	**22,086,236**

CRAIG FEDERAL COM 12H

	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	18,640	19	6	18,459	45	6	18,328	21	6	18,175	19		18,019	25	6
	18,621	20	6	18,445	14	6	18,310	20	6	18,155	19		18,002	21	6
	18,601	19	6	18,431	14	6	18,290	19	6	18,136	24		17,981	17	6
	18,582	20	6	18,417	14	6	18,271	13	6	18,112	15		17,964	22	6
	18,562	19	5	18,403	14	5	18,258		5	18,097	23		17,942	20	5
	18,543	19	5	18,389	14	5	18,233	20	5	18,074	16		17,922	19	5
	18,524	20	5	18,375	26	5	18,213	19	5	18,058	14		17,903	19	5
	18,504		5	18,349		5	18,194		5	18,044			17,884		5
	Plug to Plug	-18471	44	Plug to Plug	127	44	Plug to Plug	160	44	Plug to Plug	155	0	Plug to Plug	164	44
	Frac Plug		Total Shots	Frac Plug	18,471	Total Shots	Frac Plug	18,344	Total Shots	Frac Plug	18,184	Total Shots	Frac Plug	18,029	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	17,855	29	6	17,706	22	6	17,554	19	6	17,397	21	6	17,244	19	6
	17,845	20	6	17,690	20	6	17,534	19	6	17,379	19	6	17,224	19	6
	17,825	19	6	17,670	19	6	17,515	19	6	17,360	19	6	17,205	20	6
	17,806	24	6	17,651	20	6	17,496	20	6	17,341	21	6	17,185	19	6
	17,782	15	5	17,631	19	5	17,476	19	5	17,320	18	5	17,166	19	5
	17,767	24	5	17,612	19	5	17,457	19	5	17,302	18	5	17,147	20	5
	17,743	15	5	17,593	20	5	17,438	20	5	17,284	21	5	17,127	19	5
	17,728		5	17,573		5	17,418		5	17,263		5	17,108		5
	Plug to Plug	149	44	Plug to Plug	152	44	Plug to Plug	159	44	Plug to Plug	152	44	Plug to Plug	155	44
	Frac Plug	17,865	Total Shots	Frac Plug	17,716	Total Shots	Frac Plug	17,564	Total Shots	Frac Plug	17,405	Total Shots	Frac Plug	17,253	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	17,088	20	6	16,931	22	6	16,778	19	6	16,623	19	6	16,468	19	6
	17,069	19	6	16,914	20	6	16,759	20	6	16,604	20	6	16,448	23	6
	17,050	20	6	16,894	19	6	16,739	19	6	16,584	19	6	16,425	15	6
	17,030	19	6	16,875	21	6	16,720	19	6	16,565	20	6	16,410	17	6
	17,011	20	5	16,854	18	5	16,701	20	5	16,545	19	5	16,393	22	5
	16,991	19	5	16,836	20	5	16,681	19	5	16,526	19	5	16,371	17	5
	16,972	19	5	16,816	19	5	16,662	20	5	16,507	20	5	16,354	22	5
	16,953		5	16,797		5	16,642		5	16,487		5	16,332		5
	Plug to Plug	160	44	Plug to Plug	150	44	Plug to Plug	155	44	Plug to Plug	158	44	Plug to Plug	153	44
	Frac Plug	17,098	Total Shots	Frac Plug	16,938	Total Shots	Frac Plug	16,788	Total Shots	Frac Plug	16,633	Total Shots	Frac Plug	16,475	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	16,313	19	6	16,157	22	6	16,002	20	6	15,847	20	6	15,692	19	6
	16,293	19	6	16,138	19	6	15,983	23	6	15,828	20	6	15,673	20	6
	16,274	20	6	16,119	20	6	15,960	16	6	15,808	19	6	15,653	19	6
	16,254	19	6	16,099	19	6	15,944	15	6	15,789	19	6	15,634	20	6
	16,235	23	5	16,080	20	5	15,929	24	5	15,770	21	5	15,614	19	5
	16,212	16	5	16,060	19	5	15,905	18	5	15,749	18	5	15,595	19	5
	16,196	17	5	16,041	19	5	15,887	20	5	15,731	20	5	15,576	20	5
	16,179		5	16,022		5	15,867		5	15,711		5	15,556		5
	Plug to Plug	155	44	Plug to Plug	153	44	Plug to Plug	157	44	Plug to Plug	155	44	Plug to Plug	156	44
	Frac Plug	16,322	Total Shots	Frac Plug	16,167	Total Shots	Frac Plug	16,014	Total Shots	Frac Plug	15,857	Total Shots	Frac Plug	15,702	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	15,534	22	6	15,382	19	6	15,220	26	6	15,073	18	6	14,916	20	6
	15,517	15	6	15,358	15	6	15,207	19	6	15,052	19	6	14,897	20	6
	15,502	23	6	15,343	15	6	15,188	20	6	15,033	20	6	14,877	23	6
	15,479	20	6	15,328	24	6	15,168	19	6	15,013	19	6	14,854	15	6
	15,459	19	5	15,304	17	5	15,149	19	5	14,994	20	5	14,839	20	5
	15,440	20	5	15,287	22	5	15,130	22	5	14,974	19	5	14,819	19	5
	15,420	19	5	15,265	19	5	15,108	17	5	14,955	19	5	14,800	20	5
	15,401		5	15,246		5	15,091		5	14,936		5	14,780		5
	Plug to Plug	155	44	Plug to Plug	163	44	Plug to Plug	147	44	Plug to Plug	155	44	Plug to Plug	162	44
	Frac Plug	15,546	Total Shots	Frac Plug	15,391	Total Shots	Frac Plug	15,228	Total Shots	Frac Plug	15,081	Total Shots	Frac Plug	14,926	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	14,754	26	6	14,601	24	6	14,451	17	6	14,286	29	6	14,126	34	6
	14,742	20	6	14,586	18	6	14,431	19	6	14,276	19	6	14,115	13	6
	14,722	19	6	14,568	20	6	14,412	20	6	14,257	20	6	14,102	20	6
	14,703	20	6	14,548	20	6	14,392	19	6	14,237	19	6	14,082	19	6
	14,683	19	5	14,528	19	5	14,373	19	5	14,218	19	5	14,063	20	5
	14,664	21	5	14,509	20	5	14,354	20	5	14,199	20	5	14,043	19	5
	14,643	18	5	14,489	21	5	14,334	19	5	14,179	19	5	14,024	19	5
	14,625		5	14,468		5	14,315		5	14,160		5	14,005		5
	Plug to Plug	148	44	Plug to Plug	156	44	Plug to Plug	160	44	Plug to Plug	164	44	Plug to Plug	140	44
	Frac Plug	14,764	Total Shots	Frac Plug	14,616	Total Shots	Frac Plug	14,460	Total Shots	Frac Plug	14,300	Total Shots	Frac Plug	14,136	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	13,983	22	6	13,830	19	6	13,675	19	6	13,510	29	6	13,347	37	6
	13,966	16	6	13,811	20	6	13,662	26	6	13,500	19	6	13,340	12	6
	13,950	23	6	13,791	19	6	13,636	19	6	13,481	19	6	13,328	22	6
	13,927	17	6	13,772	20	6	13,617	20	6	13,462	20	6	13,306	19	6
	13,910	22	5	13,752	19	5	13,597	19	5	13,442	19	5	13,287	19	5
	13,888	19	5	13,733	19	5	13,578	19	5	13,423	20	5	13,268	20	5
	13,869	20	5	13,714	20	5	13,559	20	5	13,403	19	5	13,248	19	5
	13,849		5	13,694		5	13,539		5	13,384		5	13,229		5
	Plug to Plug	156	44	Plug to Plug	180	44	Plug to Plug	140	44	Plug to Plug	146	44	Plug to Plug	159	44
	Frac Plug	13,996	Total Shots	Frac Plug	13,840	Total Shots	Frac Plug	13,660	Total Shots	Frac Plug	13,520	Total Shots	Frac Plug	13,374	Total Shots

	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
From Bottom to Top	13,207	22	6	13,050	23	6	12,899	19	6	12,728	35	6	12,589	19	6
	13,190	19	6	13,030	15	6	12,880	20	6	12,722	13	6	12,569	19	6
	13,171	20	6	13,015	19	6	12,860	19	6	12,709	23	6	12,550	19	6
	13,151	19	6	12,996	19	6	12,841	20	6	12,686	21	6	12,531	20	6
	13,132	20	5	12,977	20	5	12,821	19	5	12,665	18	5	12,511	19	5
	13,112	19	5	12,957	19	5	12,802	23	5	12,647	19	5	12,492	20	5
	13,093	20	5	12,938	20	5	12,779	16	5	12,628	20	5	12,472	19	5
	13,073		5	12,918		5	12,763		5	12,608		5	12,453		5
	Plug to Plug	155	44	Plug to Plug	151	44	Plug to Plug	173	44	Plug to Plug	138	44	Plug to Plug	157	44
	Frac Plug	13,215	Total Shots	Frac Plug	13,060	Total Shots	Frac Plug	12,909	Total Shots	Frac Plug	12,736	Total Shots	Frac Plug	12,598	Total Shots

CRAIG FEDERAL COM 12H

	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
From Bottom to Top	12,434	19	6	12,273	41	6	12,118	25	6	11,968	20	6	11,813	24	6
	12,413	18	6	12,259	19	6	12,104	18	6	11,943	14	6	11,794	20	6
	12,395	25	6	12,240	20	6	12,086	21	6	11,929	19	6	11,774	19	6
	12,370	14	6	12,220	19	6	12,065	19	6	11,910	19	6	11,755	20	6
	12,356	18	5	12,201	20	5	12,046	20	5	11,891	22	5	11,735	19	5
	12,338	24	5	12,181	21	5	12,026	19	5	11,869	17	5	11,716	19	5
	12,314		5	12,160	17	5	12,007	19	5	11,852	15	5	11,697	20	5
			5	12,143		5	11,988		5	11,837		5	11,677		5
	Plug to Plug	159	44	Plug to Plug	149	44	Plug to Plug	155	44	Plug to Plug	155	44	Plug to Plug	171	44
	Frac Plug	12,441	Total Shots	Frac Plug	12,282	Total Shots	Frac Plug	12,133	Total Shots	Frac Plug	11,978	Total Shots	Frac Plug	11,823	Total Shots

	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
From Bottom to Top	11,642	35	6	11,503	19	6	11,347	27	6	11,184	28	6	11,028	29	6
	11,634	18	6	11,483	19	6	11,328	19	6	11,173	19	6	11,018	20	6
	11,616	16	6	11,464	20	6	11,309	20	6	11,154	20	6	10,998	19	6
	11,600	18	6	11,444	19	6	11,289	19	6	11,134	23	6	10,979	19	6
	11,582	21	5	11,425	19	5	11,270	19	5	11,111	16	5	10,960	20	5
	11,561	20	5	11,406	20	5	11,251	20	5	11,095	18	5	10,940	19	5
	11,541	19	5	11,386	12	5	11,231	19	5	11,077	20	5	10,921	20	5
	11,522		5	11,374		5	11,212		5	11,057		5	10,901		5
	Plug to Plug	140	44	Plug to Plug	155	44	Plug to Plug	165	44	Plug to Plug	145	44	Plug to Plug	155	44
	Frac Plug	11,652	Total Shots	Frac Plug	11,512	Total Shots	Frac Plug	11,357	Total Shots	Frac Plug	11,192	Total Shots	Frac Plug	11,047	Total Shots

	Stage 51	Distance Between Perfs	Shots	Stage 52	Distance Between Perfs	Shots	Stage 53	Distance Between Perfs	Shots	Stage 54	Distance Between Perfs	Shots	Stage 55	Distance Between Perfs	Shots
From Bottom to Top	10,882	19	6	10,723	23	6	10,572	19	6	10,417	19	6	10,256	25	6
	10,867	24	6	10,707	28	6	10,552	19	6	10,397	19	6	10,242	19	6
	10,843	19	6	10,679	10	6	10,533	20	6	10,378	20	6	10,223	20	6
	10,824	20	6	10,669	26	6	10,513	19	6	10,358	19	6	10,203	19	6
	10,804	19	5	10,643	13	5	10,494	19	5	10,339	19	5	10,184	20	5
	10,785	19	5	10,630	18	5	10,475	20	5	10,320	20	5	10,164	20	5
	10,766	20	5	10,612	21	5	10,455	19	5	10,300	19	5	10,144	18	5
	10,746		5	10,591		5	10,436		5	10,281		5	10,126		5
	Plug to Plug	154	44	Plug to Plug	157	44	Plug to Plug	155	44	Plug to Plug	160	44	Plug to Plug	150	44
	Frac Plug	10,892	Total Shots	Frac Plug	10,738	Total Shots	Frac Plug	10,581	Total Shots	Frac Plug	10,426	Total Shots	Frac Plug	10,266	Total Shots

	Stage 56	Distance Between Perfs	Shots	Stage 57	Distance Between Perfs	Shots	Stage 58	Distance Between Perfs	Shots	Stage 59	Distance Between Perfs	Shots	Stage 60	Distance Between Perfs	Shots
From Bottom to Top	10,101	25	6	9,951	19	6	9,792	23	6	9,637	23	6	9,486	19	6
	10,087	20	6	9,932	20	6	9,776	19	6	9,621	18	6	9,462	15	6
	10,067	19	6	9,912	19	6	9,757	19	6	9,603	20	6	9,447	17	6
	10,048	19	6	9,893	20	6	9,738	20	6	9,583	20	6	9,430	22	6
	10,029	20	5	9,873	19	5	9,718	19	5	9,563	19	5	9,408	19	5
	10,009	19	5	9,854	19	5	9,699	19	5	9,544	20	5	9,389	20	5
	9,990	20	5	9,835	20	5	9,680	20	5	9,524	19	5	9,369	19	5
	9,970		5	9,815		5	9,660		5	9,505		5	9,350		5
	Plug to Plug	155	44	Plug to Plug	159	44	Plug to Plug	152	44	Plug to Plug	155	44	Plug to Plug	165	44
	Frac Plug	10,116	Total Shots	Frac Plug	9,961	Total Shots	Frac Plug	9,802	Total Shots	Frac Plug	9,650	Total Shots	Frac Plug	9,495	Total Shots

	Stage 61	Distance Between Perfs	Shots	Stage 62	Distance Between Perfs	Shots	Stage 63	Distance Between Perfs	Shots	Stage 64	Distance Between Perfs	Shots	Stage 65	Distance Between Perfs	Shots
From Bottom to Top	9,320	30	6	9,150	45	6	9,020	19	6	8,865	27	6		8729	6
	9,311	19	6	9,140	15	6	9,000	19	6	8,846	20	6			6
	9,292	20	6	9,125	8	6	8,981	19	6	8,826	16	6			6
	9,272	22	6	9,117	19	6	8,962	20	6	8,810	23	6			6
	9,250	17	5	9,098	20	5	8,942	24	5	8,787	19	5			5
	9,233	13	5	9,078	19	5	8,918	14	5	8,768	19	5			5
	9,220	25	5	9,059	20	5	8,904	12	5	8,749	20	5			5
	9,195		5	9,039		5	8,892		5	8,729		5			5
	Plug to Plug	170	44	Plug to Plug	130	44	Plug to Plug	155	44	Plug to Plug	65	44	Plug to Plug	0	44
	Frac Plug	9,330	Total Shots	Frac Plug	9,160	Total Shots	Frac Plug	9,030	Total Shots	Frac Plug	8,875	Total Shots	Frac Plug		Total Shots

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-104
Revised August 1, 2011

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

[1] Operator name and Address	[2] OGRID Number
COG Operating LLC 2208 W. Main Street Artesia, NM 88210	229137
	[3] Reason for Filing Code/ Effective Date NW

[4] API Number	[5] Pool Name	[6] Pool Code
30 – 015-44208	WC-015 G-03 S252636M; Bone Spring	97818

[7] Property Code	[8] Property Name	[9] Well Number
317787	Craig Federal Com	12H

II. [10] Surface Location

Ul or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
D	1	26S	26E		675	North	790	West	Eddy

[11] Bottom Hole Location

Ul or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
D	25	25S	26E		210	North	329	West	Eddy

[12] Lse Code	[13] Producing Method Code	[14] Gas Connection Date	[15] C-129 Permit Number	[16] C-129 Effective Date	[17] C-129 Expiration Date
F	F	11/11/17			

III. Oil and Gas Transporters

[18] Transporter OGRID	[19] Transporter Name and Address	[20] O/G/W
278421	Holly Refining & Marketing Company, LLC PO Box 159 Artesia, NM 88210	O
	Lucid Energy	G
	NM OIL CONSERVATION ARTESIA DISTRICT DEC 07 2017 RECEIVED	

IV. Well Completion Data

[21] Spud Date	[22] Ready Date	[23] TD	[24] PBTD	[25] Perforations	[26] DHC, MC
7/23/17	11/8/17	18767' / 7918	18665'	8729-18640'	

[27] Hole Size	[28] Casing & Tubing Size	[29] Depth Set	[30] Sacks Cement
17 1/2"	13 3/8"	446'	450
12 1/4"	9 5/8"	2381'	935
8 3/4"	5 1/2"	18750'	2895
	2 7/8"	7238'	

V. Well Test Data

[31] Date New Oil	[32] Gas Delivery Date	[33] Test Date	[34] Test Length	[35] Tbg. Pressure	[36] Csg. Pressure
11/9/17	11/11/17	11/9/17	24 Hrs	600#	400#

[37] Choke Size	[38] Oil	[39] Water	[40] Gas		[41] Test Method
28/64"	41	1471	0		Flowing

[42] I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature: Stormi Davis

Printed name: Stormi Davis

Title: Regulatory Analyst

E-mail Address: sdavis@concho.com

Date: 12/5/17

Phone: 575-748-6946

OIL CONSERVATION DIVISION

Approved by: Raymond H. Rodney

Title: Geologist.

Approval Date: 12-18-2017

Pending BLM approvals will subsequently be reviewed and scanned

NM OIL CONSERVATION
ARTESIA DISTRICT
DEC 07 2017
RECEIVED

DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

DISTRICT II
811 S. FIRST ST., ARTESIA, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

DISTRICT III
1000 RIO BRAZOS RD., AZTEC, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
30-015-44208	97818	WC-015 G-03 S252636M; Bone Spring

Property Code	Property Name	Well Number
317787	CRAIG FEDERAL COM	12H

OGRID No.	Operator Name	Elevation
229137	COG OPERATING, LLC	3370.1'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	1	26-S	26-E		675	NORTH	790	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	25	25-S	26-E		210	NORTH	329	WEST	EDDY

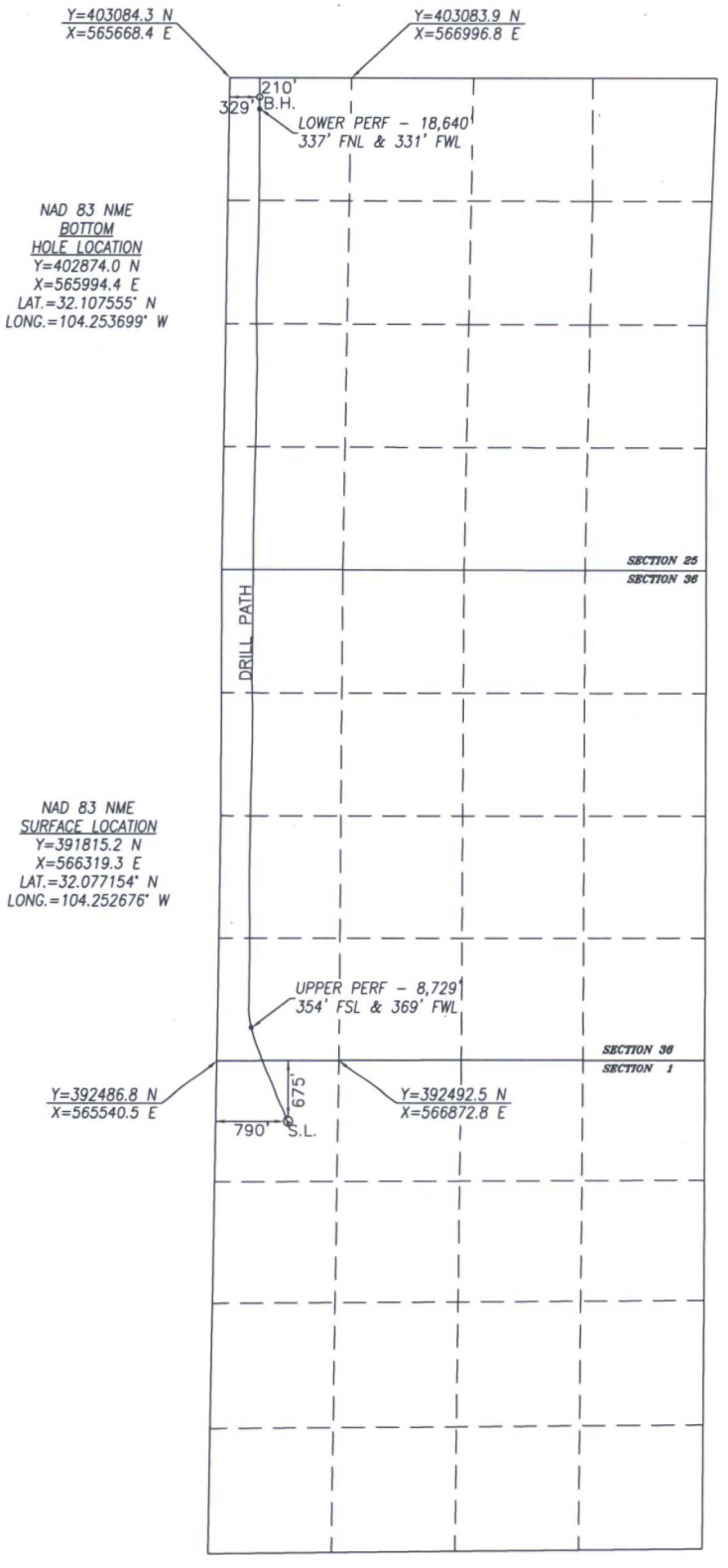
Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
320			

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

SEE PAGE 2

W.O. # 17-1503 DRAWN BY: AM

Property Code	Property Name	Well Number
317787	CRAIG FEDERAL COM	12H
OGRID No.	**Operator Name**	**Elevation**
229137	COG OPERATING, LLC	3370.1'



BOREPATH SHOWN HEREON IS BASED ON DIRECTIONAL SURVEY REPORT PROVIDED BY COG OPERATING, LLC FOR THE CRAIG FEDERAL COM #12H SUPPLIED TO HARCROW SURVEYING, LLC ON NOVEMBER 16, 2017

2000 0 2000

SCALE: 1"=2000'

OPERATOR CERTIFICATION

I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature 11/29/17 Date

Stormi Davis
Printed Name

sdavis@concho.com
E-mail Address

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

NOV. 11, 2016/AUG. 11, 2017
Date of Survey/Date of Geographic Survey

Signature & Seal of Professional Surveyor

CHAD L. HARCROW NEW MEXICO 17777 LICENSED PROFESSIONAL SURVEYOR

Chad Harcrow 11/28/17

Certificate No. CHAD HARCROW 17777

W.O. # 17-1503 DRAWN BY: AM