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 – 025-44534	Sanders Tank; Upper Wolfcamp	98097

[7] Property Code	[8] Property Name	[9] Well Number
320525	Tigercat Federal Com	3H

II. [10] Surface Location

Ul or lot no	Section	Township	Range	Lot Idn	Feet from the	North/SouthLine	Feet from the	East/West line	County
C	8	26S	33E		360	North	1650	West	Lea

[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
N	8	26S	33E		209	South	1661	West	Lea

[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	9/08/18			

III. Oil and Gas Transporters

[18] Transporter OGRID	[19] Transporter Name and Address	[20] O/G/W
	Alpha Crude Connector Pipeline	O
298751	Energy Transfer 2001 Bryan Street Ste., 3700 Dallas, TX 75201	G

IV. Well Completion Data

[21] Spud Date	[22] Ready Date	[23] TD	[24] PBTD	[25] Perforations	[26] DHC, MC
5/19/18	9/8/18	17636	17430	12,960-17,422	

[27] Hole Size	[28] Casing & Tubing Size	[29] Depth Set	[30] Sacks Cement
14 3/4	10 3/4	955'	1000
9 7/8	7 5/8	11596'	1550
6 3/4	5 1/2 5	0-9518 9518-17624	3250
	2 7/8	11195	

V. Well Test Data

[31] Date New Oil	[32] Gas Delivery Date	[33] Test Date	[34] Test Length	[35] Tbg. Pressure	[36] Csg. Pressure
9/08/18	09/08/18	9/08/18	24 Hrs	4500	4050
[37] Choke Size	**[38] Oil**	**[39] Water**	**[40] Gas**		**[41] Test Method**
16/64	35	3176	128		

[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: Amanda Avery

Printed name: Amanda Avery

Title: Regulatory Tech II

E-mail Address: aavery@concho.com

Date: 11/05/18

Phone: 575-748-6962

OIL CONSERVATION DIVISION

Approved by: Karen Sharp

Title: Staff Mgr

Approval Date: 11-9-18

Documents pending BLM approvals will subsequently be reviewed and scanned

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

HOBBS OCD
NOV 09 2018
RECEIVED

5. Lease Serial No.
NMNM0160973

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.
TIGERCAT FEDERAL COM 3H

2. Name of Operator
COG OPERATING LLC
Contact: AMANDA AVERY
E-Mail: aavery@concho.com

9. API Well No.
30-025-44534

3a. Address
2208 W MAIN STREET
ARTESIA, NM 88210

3b. Phone No. (include area code)
Ph: 575-748-6940

10. Field and Pool or Exploratory Area
SANDERS TANK; UPPER WC

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Sec 8 T26S R33E NENW 360FNL 1650FWL
32.064305 N Lat, 103.597523 W Lon

11. County or Parish, State
LEA 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.

07/03/18 Test annulus to 1500# Set CBP @ 17,430' and test csg to 10,950#. Good test. Perf 17,480 - 17490' (60)
07/31/18 to 08/09/18 Perf 12,960-17,422' (750). Acdz w/106,596 gal 7 1/2%; frac w/8,809,104# sand & 10,814,695 gal fluid.
08/14/18 to 08/15/18 Drilled out CFP's. Clean down to 17,430'
08/19/18 Set 2 7/8" 6.5# L-80 tbg @ 9680 ' @ packer @ 9664.
09/07/18 Began flowing back & testing.
0 9/08/18 Date of first production

14. I hereby certify that the foregoing is true and correct.
Electronic Submission #442935 verified by the BLM Well Information System
For COG OPERATING LLC, sent to the Hobbs

Name *(Printed/Typed)* AMANDA AVERY — Title AUTHORIZED REPRESENTATIVE

Signature (Electronic Submission) — Date 11/07/2018

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____ Title _____

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

Documents pending BLM approvals will subsequently be reviewed and scanned

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.

(Instructions on page 2)

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** ...UBMITTED **

Form 3160-4
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

HOBBS OCD

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

NOV 0 9 2018

RECEIVED

5. Lease Serial No. NMNM0160973

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: AMANDA AVERY
E-Mail: aavery@concho.com

8. Lease Name and Well No.: TIGERCAT FEDERAL COM 3H

3. Address: 2208 W MAIN STREET, ARTESIA, NM 88210

3a. Phone No. (include area code): Ph: 575-748-6940

9. API Well No.: 30-025-44534

4. Location of Well (Report location clearly and in accordance with Federal requirements)*

At surface: NENW 360FNL 1650FWL 32.064305 N Lat, 103.597523 W Lon

At top prod interval reported below: NENW 360FNL 1650FWL 32.064305 N Lat, 103.597523 W Lon

At total depth: SESW 209FSL 1661FWL 32.051361 N Lat, 103.597477 W Lon

10. Field and Pool, or Exploratory: SANDERS TANK; UPPER WC

11. Sec., T., R., M., or Block and Survey or Area: Sec 8 T26S R33E Mer NMP

12. County or Parish: LEA

13. State: NM

14. Date Spudded: 05/19/2018

15. Date T.D. Reached: 06/23/2018

16. Date Completed: ☐ D & A ☒ Ready to Prod. 09/08/2018

17. Elevations (DF, KB, RT, GL)*: 3324 GL

18. Total Depth: MD 17636 TVD 12865

19. Plug Back T.D.: MD 17430 TVD 12865

20. Depth Bridge Plug Set: MD 17430 TVD 12865

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)

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
14.750	10.750 L80	45.5	0	955		1000		0	
6.750	5.000 P110	18.0	0	9518		3250		0	
9.875	7.625 L80	29.7	0	11596	4877	1550		3720	
6.750	5.500 P110	23.0	9518	17624				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	11195	11179						

25. Producing Intervals / 26. Perforation Record

	Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A)	WOLFCAMP	12960	17422	12960 TO 17422		750	
B)							
C)							
D)							

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

Depth Interval	Amount and Type of Material
12960 TO 17422	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
09/08/2018	09/08/2018	24	→	35.0	128.0	3176.0			GAS LIFT

Choke Size	Tbg. Press. Flwg. 4500 SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
16/64		4050.0	→	35	128	3176		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	Produ…
			→						

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well S…
			→					

Documents pending BLM approvals will subsequently be reviewed and scanned

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

ELECTRONIC SUBMISSION #442941 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERA… …MITTED ****

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
RSLR	832			RSLR	832
TOS	1174			TOS	1174
BOS	4612			BOS	4612
LMAR	4847			LMAR	4847
BLCN	4867			BLCN	4867
CYCN	5922			CYCN	5922
FBSG	10010			FBSG	10010
SBSG SAND	10569			SBSG SAND	10569

32. Additional remarks (include plugging procedure):
TBSG 11636
WFMP 12049

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 #442941 Verified by the BLM Well Information System.
For COG OPERATING LLC, sent to the Hobbs

Name *(please print)* AMANDA AVERY Title AUTHORIZED REPRESENTATIVE

Signature (Electronic Submission) Date 11/07/2018

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

**** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ****

	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
	17,422	20	5	17,259	28	5	17,079	23	5	16,898	27	5	16,719	23	5
	17,402	20	5	17,242	28	5	17,056	22	5	16,876	23	5	16,700	27	5
From	17,382	20	4	17,214	22	4	17,034	23	4	16,853	22	4	16,673	25	4
Bottom to	17,362	20	4	17,192	23	4	17,011	19	4	16,831	23	4	16,648	20	4
Top	17,342	15	3	17,169	22	3	16,992		3	16,808	22	3	16,628	23	3
	17,327	25	3	17,147	23	3	16,966	25	3	16,786	23	3	16,605	22	3
	17,302	15	3	17,124	22	3	16,941	16	3	16,763	21	3	16,583	23	3
	17,287		3	17,102		3	16,925		3	16,742		3	16,560		3
	Plug to Plu	68	30	Plug to Plu	75	30	Plug to Plu	79	30	Plug to Plu	84	30	Plug to Plu	79	30
	Frac Plug	17,430	Total Shots	Frac Plug	17,267	Total Shots	Frac Plug	17,090	Total Shots	Frac Plug	16,915	Total Shots	Frac Plug	16,727	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
	16,537	23	5	16,357	26	5	16,176	28	5	15,996	23	5	15,805	33	5
	16,515	23	5	16,334	22	5	16,150	19	5	15,973	21	5	15,785	15	5
From	16,492	22	4	16,312	23	4	16,131	22	4	15,952	24	4	15,770	27	4
Bottom to	16,470	28	4	16,289	22	4	16,109	23	4	15,928	27	4	15,743	18	4
Top	16,442	17	3	16,267	22	3	16,086	22	3	15,901	18	3	15,725	24	3
	16,425	25	3	16,245	23	3	16,064	23	3	15,883	23	3	15,701	21	3
	16,400	17	3	16,222	18	3	16,041	22	3	15,860	22	3	15,680	22	3
	16,383		3	16,204		3	16,019		3	15,838		3	15,658		3
	Plug to Plu	75	30	Plug to Plu	84	30	Plug to Plu	69	30	Plug to Plu	79	30	Plug to Plu	72	30
	Frac Plug	16,545	Total Shots	Frac Plug	16,373	Total Shots	Frac Plug	16,178	Total Shots	Frac Plug	16,007	Total Shots	Frac Plug	15,815	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
	15,635	23	5	15,449	28	5	15,271	26	5	15,093	23	5	14,904	32	5
	15,612	22	5	15,432	23	5	15,253	24	5	15,074	19	5	14,890	22	5
From	15,590	23	4	15,409	22	4	15,229	25	4	15,052	26	4	14,868	23	4
Bottom to	15,567	22	4	15,387	23	4	15,204	20	4	15,026	26	4	14,845	22	4
Top	15,545	23	3	15,364	22	3	15,184	23	3	15,000	19	3	14,823	22	3
	15,522	21	3	15,342	23	3	15,161	22	3	14,981	24	3	14,801	23	3
	15,501	24	3	15,319	22	3	15,139	23	3	14,957	21	3	14,778	17	3
	15,477		3	15,297		3	15,116		3	14,936		3	14,761		3
	Plug to Plu	79	30	Plug to Plu	79	30	Plug to Plu	76	30	Plug to Plu	79	30	Plug to Plu	67	30
	Frac Plug	15,646	Total Shots	Frac Plug	15,466	Total Shots	Frac Plug	15,280	Total Shots	Frac Plug	15,105	Total Shots	Frac Plug	14,912	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
	14,732	29	5	14,562	23	5	14,370	24	5	14,168	26	5	14,010	23	5
	14,709	22	5	14,529	22	5	14,349	23	5	14,168	22	5	13,988	23	5
From	14,687	22	4	14,507	23	4	14,326	22	4	14,146	19	4	13,965	22	4
Bottom to	14,665	23	4	14,484	22	4	14,304	23	4	14,127	26	4	13,943	23	4
Top	14,642	22	3	14,462	23	3	14,281	22	3	14,101	26	3	13,920	22	3
	14,620	23	3	14,439	19	3	14,259	23	3	14,075	19	3	13,898	23	3
	14,597	22	3	14,420	26	3	14,236	22	3	14,056	23	3	13,875	22	3
	14,575		3	14,394		3	14,214		3	14,033		3	13,853		3
	Plug to Plu	79	30	Plug to Plu	79	30	Plug to Plu	81	30	Plug to Plu	69	30	Plug to Plu	79	30
	Frac Plug	14,744	Total Shots	Frac Plug	14,563	Total Shots	Frac Plug	14,385	Total Shots	Frac Plug	14,196	Total Shots	Frac Plug	14,022	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
	13,838	20	5	13,642	30	5	13,469	22	5	13,282	29	5	13,101	30	5
	13,807	26	5	13,627	23	5	13,446	22	5	13,266	26	5	13,065	22	5
From	13,781	19	4	13,604	21	4	13,424	23	4	13,240	19	4	13,063	21	4
Bottom to	13,762	22	4	13,583	24	4	13,401	22	4	13,221	23	4	13,042	24	4
Top	13,740	23	3	13,559	27	3	13,379	23	3	13,198	22	3	13,018	19	3
	13,717	22	3	13,532	18	3	13,356	22	3	13,176	23	3	12,999	26	3
	13,695	23	3	13,514	23	3	13,334	23	3	13,153	22	3	12,973	13	3
	13,672		3	13,491		3	13,311		3	13,131		3	12,960		3
	Plug to Plu	79	30	Plug to Plu	68	30	Plug to Plu	79	30	Plug to Plu	79	30	Plug to Plu	68	30
	Frac Plug	13,841	Total Shots	Frac Plug	13,651	Total Shots	Frac Plug	13,480	Total Shots	Frac Plug	13,300	Total Shots	Frac Plug	13,110	Total Shots

Tigercat Federal Com #3H

Perfs	7 1/2% Acid (Gal)	Sand (#)	Fluid (Gal)
1	22260	361983	633042.9
2	2268	309404	403914
3	2268	289693	304521.84
4	2268	359815	408492
5	3024	359600	427350
6	3024	360140	443856
7	3024	358473	457842
8	3192	369503	431088
9	3024	356998	440538
10	3024	360133	488427.24
11	16632	360031	492030
12	3024	360930	433440
13	4032	357670	444948
14	3024	362274	440748
15	3024	342006	430164
16	3024	356640	408408
17	3024	315068	415296
18	3024	359473	453600
19	3024	353255	391482
20	3024	350226	510090
21	3024	352990	596064
22	2268	355990	480606
23	3024	360082	428484
24	3024	363015	560322
25	3024	373712	522984
Totals	**106,596**	**8,809,104**	**10,814,695**