

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

NM OIL CONSERVATION

ARTESIA DISTRICT

Form C-104
Revised August 1, 2011

AUG 29 2016

Submit one copy to appropriate District Office

RECEIVED

☐ AMENDED REPORT

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

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address COG Operating LLC 2208 W. Main Street Artesia, NM 88210		² OGRID Number 229137
		³ Reason for Filing Code/ Effective Date NW
⁴ API Number 30 - 015-42827	⁵ Pool Name Welch; Bone Spring	⁶ Pool Code 64010
⁷ Property Code 313961	⁸ Property Name Screech Owl Federal	⁹ Well Number 3H

II. ¹⁰ Surface Location

Ul or lot no. O	Section 18	Township 26S	Range 27E	Lot Idn	Feet from the 250	North/South Line South	Feet from the 2450	East/West line East	County Eddy
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¹¹ Bottom Hole Location

Ul or lot no. O	Section 30	Township 26S	Range 27E	Lot Idn	Feet from the 343	North/South Line South	Feet from the 1826	East/West line East	County Eddy
¹² Lse Code F	¹³ Producing Method Code F	¹⁴ Gas Connection Date 8/20/16	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
	Alpha Crude Connector Pipeline	O
241472	Southern Union Gas Services, Ltd 301 Commerce Street - Ste 700 Fort Worth, TX 76102	G

IV. Well Completion Data

²¹ Spud Date 6/16/16	²² Ready Date 8/11/16	²³ TD 17860' 7376	²⁴ PBSD 17775'	²⁵ Perforations 7882-17750'	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17 1/2"	13 3/8"	359'	500		
12 1/4"	9 5/8"	2045'	825		
8 3/4"	5 1/2"	17845'	3650		
	2 7/8"	7021'			

V. Well Test Data

³¹ Date New Oil 8/20/16	³² Gas Delivery Date 8/20/16	³³ Test Date 8/23/16	³⁴ Test Length 24 Hrs	³⁵ Tbg. Pressure 750#	³⁶ Csg. Pressure
³⁷ Choke Size 2"	³⁸ Oil 985	³⁹ Water 2170	⁴⁰ Gas 1453		⁴¹ Test Method 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:

Printed name:
Stormi Davis

Title:
Regulatory Analyst

E-mail Address:
sdavis@concho.com

Date:
8/25/16

Phone:
575-748-6946

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date:

Pending BLM approvals will
subsequently be reviewed
and scanned

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTNM OIL CONSERVATION
ARTESIA DISTRICTFORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010**SUNDRY NOTICES AND REPORTS ON WELLS** **AUG 29 2016**
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.***RECEIVED****SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. NMNM114969
2. Name of Operator COG OPERATING LLC		6. If Indian, Allottee or Tribe Name
Contact: STORMI DAVIS E-Mail: sdavis@concho.com		7. If Unit or CA/Agreement, Name and/or No.
3a. Address 2208 WEST MAIN ARTESIA, NM 88210	3b. Phone No. (include area code) Ph: 575-748-6946	8. Well Name and No. SCREECH OWL FEDERAL 3H
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 18 T26S R27E Mer NMP SWSE 250FSL 2450FEL		9. API Well No. 30-015-42827
		10. Field and Pool, or Exploratory WELCH; BONE SPRING
		11. County or Parish, and State EDDY COUNTY, NM

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> 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 recompleat 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 shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

7/13/16 to 7/16/16 Test 5 1/2" csg to 8500#. Good test. Drill cmt, FC, FS & new formation to 17860'. Circ clean.

7/18/16 to 8/6/16 Test 9 5/8" x 5 1/2" annulus to 1500#. Set CBP @ 17775'. Test to 8452#. Perforate Bone Spring 7882-17750' (1188). Acidz w/103152 gal 15% acid. Frac w/14875750# sand & 12283719 gal fluid.

8/8/16 to 8/11/16 Drill out all frac plugs & clean down to CBP @ 17775'. Set 2 7/8" 6.5# J-55 tbg @ 7021' & pkr @ 7005'. Installed gas-lift system.
8/14/16 Began flowing back & testing.

8/20/16 Date of first production.

14. I hereby certify that the foregoing is true and correct. Electronic Submission #349066 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 08/25/2016

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 _____

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 wi.
States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

any department or agency of the United

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

NM OIL CONSERVATION

Form 3160-4
(August 2007)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ARTESIA DISTRICT

AUG 29 2016

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

RECEIVED

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. NMNM114969	
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 2208 WEST MAIN ARTESIA, NM 88210		8. Lease Name and Well No. SCREECH OWL FEDERAL 3H	
3a. Phone No. (include area code) Ph: 575-748-6946		9. API Well No. 30-015-42827	
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface Sec 18 T26S R27E Mer NMP SWSE 250FSL 2450FEL At top prod interval reported below Sec 30 T26S R27E Mer NMP At total depth SWSE 343FSL 1826FEL		10. Field and Pool, or Exploratory WELCH; BONE SPRING	
14. Date Spudded 06/16/2016		11. Sec., T., R., M., or Block and Survey or Area Sec 18 T26S R27E Mer NMP	
15. Date T.D. Reached 07/04/2016		12. County or Parish EDDY	
16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 08/11/2016		13. State NM	
17. Elevations (DF, KB, RT, GL)* 3297 GL			
18. Total Depth: MD 17860 TVD 7376		19. Plug Back T.D.: MD 17775 TVD 7382	
20. Depth Bridge Plug Set: MD 17775 TVD 7382			
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) NONE		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)	

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 J55	54.5	0	359		500		0	
12.250	9.625 J55	40.0	0	2045		825		0	
8.750	5.500 P110	17.0	0	17845		3650		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	7021	7005						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) BONE SPRING	7882	17750	7882 TO 17750	0.430	1188	OPEN
B)						
C)						
D)						

26. Perforation Record

Depth Interval	Amount and Type of Material
7882 TO 17750	SEE ATTACHED

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

Depth Interval	Amount and Type of Material
7882 TO 17750	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
08/20/2016	08/23/2016	24	→	985.0	1453.0	2170.0			FLOWS FROM WELL
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
2"	SI	750	→	985	1453	2170		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.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
	SI		→						

Pending BLM approvals will
subsequently be reviewed
and scanned

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

ELECTRONIC SUBMISSION #349078 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

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	2010	2077		LAMAR	2010
BELL CANYON	2078	2902		BELL CANYON	2078
CHERRY CANYON	2903	4077		CHERRY CANYON	2903
BRUSHY CANYON	4078	5602		BRUSHY CANYON	4078
BONE SPRING LM	5603	6568		BONE SPRING LM	5603
1ST BONE SPRING	6569	7462		1ST BONE SPRING	6569

32. Additional remarks (include plugging procedure):

Surveys & perms/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 #349078 Verified by the BLM Well Information System.
For COG OPERATING LLC, sent to the Carlsbad**

Name (please print) STORMI DAVISTitle PREPARER

Signature _____ (Electronic Submission)

Date 08/25/2016

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.

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

Date
Pressure test

(entered data to be carried to each stage)

7/28/2016
9500

Well Name/number

Screech Owl Fed Corn #3H

Casing 1 size

5 1/2

Casing 2 size

Capacity-bbls/in. ft.

0.02325

Capacity-bbls/in. ft.

Top of Casing

0

Top of Casing

TD of casing

17,845

TD of casing

TVD

7417

AFE

4012

Shallowest Plug 8,142

Fluid Database

1	Treated Water
2	15 % Acid
3	Slickwater
4	Rt1 Linear
5	Silver Stim R (11)
6	
7	
8	
9	
10	
11	
12	

Proppant Database

1	20/40 White
2	20/40 CRC-P
3	
4	
5	
6	
7	
8	

Chemical Database

1	BC-140 X2
2	DCA-23003 FR
3	MO-67
4	Clayweb II
5	FDP-S1226
6	Scaletrol
7	Optikleen-WF
8	Nzyme-3
9	Optifo
10	Scalechek Scp-2

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
	17,750	101	14	17,448	101	14	17,146	101	14	16,844	100	14	16,543	99	14
	17,649	100	12	17,347	100	12	17,045	101	12	16,743	101	12	16,441	101	12
	17,549		10	17,247		10	16,944		10	16,642		10	16,340		10
	Plug to Plug	302	36	Plug to Plug	302	36	Plug to Plug	287	36	Plug to Plug	289	36	Plug to Plug	305	36
	Frac Plug	17,775	Total Shots	Frac Plug	17,473	Total Shots	Frac Plug	17,171	Total Shots	Frac Plug	16,884	Total Shots	Frac Plug	16,595	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
	16,240	100	14	15,938	100	14	15,636	100	14	15,333	101	14	15,031	98	14
	16,137	99	12	15,837	101	12	15,535	101	12	15,233	104	12	14,931	99	12
	16,038		10	15,736		10	15,434		10	15,129		10	14,832		10
	Plug to Plug	302	36	Plug to Plug	302	36	Plug to Plug	302	36	Plug to Plug	304	36	Plug to Plug	300	36
	Frac Plug	16,290	Total Shots	Frac Plug	15,988	Total Shots	Frac Plug	15,686	Total Shots	Frac Plug	15,384	Total Shots	Frac Plug	15,080	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
	14,729	103	14	14,426	102	14	14,130	96	14	13,828	96	14	13,521	101	14
	14,629	101	12	14,327	101	12	14,024	100	12	13,722	100	12	13,420	100	12
	14,528		10	14,226		10	13,924		10	13,622		10	13,320		10
	Plug to Plug	302	36	Plug to Plug	298	36	Plug to Plug	302	36	Plug to Plug	307	36	Plug to Plug	302	36
	Frac Plug	14,780	Total Shots	Frac Plug	14,478	Total Shots	Frac Plug	14,180	Total Shots	Frac Plug	13,878	Total Shots	Frac Plug	13,571	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
	13,219	101	14	12,917	101	14	12,615	101	14	12,313	100	14	12,015	96	14
	13,123	105	12	12,816	100	12	12,514	101	12	12,212	101	12	11,910	101	12
	13,018		10	12,716		10	12,413		10	12,111		10	11,809		10
	Plug to Plug	302	36	Plug to Plug	302	36	Plug to Plug	311	36	Plug to Plug	290	36	Plug to Plug	304	36
	Frac Plug	13,269	Total Shots	Frac Plug	12,967	Total Shots	Frac Plug	12,665	Total Shots	Frac Plug	12,354	Total Shots	Frac Plug	12,064	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
	11,710	99	14	11,407	100	14	11,104	101	14	10,803	100	14	10,495	106	14
	11,608	101	12	11,311	106	12	11,004	101	12	10,702	101	12	10,400	101	12
	11,507		10	11,205		10	10,903		10	10,601		10	10,299		10
	Plug to Plug	303	36	Plug to Plug	302	36	Plug to Plug	302	36	Plug to Plug	297	36	Plug to Plug	307	36
	Frac Plug	11,760	Total Shots	Frac Plug	11,457	Total Shots	Frac Plug	11,155	Total Shots	Frac Plug	10,853	Total Shots	Frac Plug	10,556	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
	10,188	101	14	9,886	101	14	9,584	101	14	9,282	101	14	8,980	101	14
	10,088	101	12	9,783	98	12	9,480	97	12	9,178	102	12	8,879	95	12
	9,987		10	9,685		10	9,383		10	9,081		10	8,784		10
	Plug to Plug	302	36	Plug to Plug	303	36	Plug to Plug	302	36	Plug to Plug	302	36	Plug to Plug	307	36
	Frac Plug	10,249	Total Shots	Frac Plug	9,947	Total Shots	Frac Plug	9,644	Total Shots	Frac Plug	9,342	Total Shots	Frac Plug	9,040	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
	8,688	106	14	8,382	105	14	8,079	105	14		7882			0	
	8,587	100	12	8,285	101	12	7,983	101	12						
	8,487		10	8,184		10	7,882		10						
	Plug to Plug	289	36	Plug to Plug	302	36	Plug to Plug	280	36	Plug to Plug	0	0	Plug to Plug	0	0
	Frac Plug	8,733	Total Shots	Frac Plug	8,444	Total Shots	Frac Plug	8,142	Total Shots	Frac Plug		Total Shots	Frac Plug		Total Shots

SCREECH OWL FEDERAL #3H**30-015-42827****Sec 18-T26S-R27E**

<u>Perfs</u>	<u>15% Acid (Gal)</u>	<u>Sand (#)</u>	<u>Fluid (Gal)</u>
1	1512	451247	359814
2	2982	447748	393036
3	4452	452025	390852
4	3192	450160	390642
5	3066	452960	387450
6	3192	449997	385476
7	3024	452775	382950
8	3066	451513	379848
9	3150	450282	383292
10	3024	451170	382284
11	3654	447069	377790
12	3024	451583	376572
13	3024	452446	374346
14	3024	450832	372120
15	3150	449522	372540
16	3024	449700	370104
17	3024	451305	368199
18	3402	449696	365610
19	4536	447720	401394
20	3024	450768	366072
21	3024	448699	364896
22	3024	449897	352716
23	3024	450164	364308
24	3150	452355	364140
25	2982	452911	364392
26	3024	453489	363972
27	3024	450776	363006
28	3024	450279	361914
29	3024	449597	362166
30	3024	458684	363636
31	3234	449736	360360
32	3024	451333	359856
33	3024	447312	357966
Totals	103152	14875750	12283719