NM OIL CONSERVATION
ARTESIA DISTRICT
APR 06 2015
RECEIVED

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 – 015-42484	WC-015 G-04 S262728A	98018

[7] Property Code	[8] Property Name	[9] Well Number
313446	Horned Owl Federal	1H

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	25	26S	26E		20	North	330	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
M	25	26S	26E		349	South	479	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				

III. Oil and Gas Transporters

[18] Transporter OGRID	[19] Transporter Name and Address	[20] O/G/W
35246	Shell Trading US Company P.O. Box 4604 Houston, TX 77210-4604	O

IV. Well Completion Data

[21] Spud Date	[22] Ready Date	[23] TD	[24] PBTD	[25] Perforations	[26] DHC, MC
1/23/15	3/5/15	11930'	11880'	7595-11840'	

[27] Hole Size	[28] Casing & Tubing Size	[29] Depth Set	[30] Sacks Cement
17 1/2"	13 3/8"	295'	350
12 1/4"	9 5/8"	2012'	800
7 7/8"	5 1/2"	11930'	2300
	2 7/8"	7563'	

V. Well Test Data

[31] Date New Oil	[32] Gas Delivery Date	[33] Test Date	[34] Test Length	[35] Tbg. Pressure	[36] Csg. Pressure
3/9/15		3/24/15	24 Hrs	570#	
[37] Choke Size	**[38] Oil**	**[39] Water**	**[40] Gas**		**[41] Test Method**
46/64"	590	2549	840		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: 4/1/15

Phone: 575-748-6946

OIL CONSERVATION DIVISION

Approved by: RR Dade

Title: Dist II Supervisor

Approval Date: 4/14/15

Pending BLM approvals will subsequently be reviewed and scanned RRD

Form 3160-5
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010

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 reverse side.

5. Lease Serial No.
NMNM114965

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.
HORNED OWL FEDERAL 1H

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

9. API Well No.
30-015-42484

3a. Address
2208 WEST MAIN
ARTESIA, NM 88210

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

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

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Sec 25 T26S R26E Mer NMP NWNW 20FNL 330FWL

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			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☒ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ 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 shall 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 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.)

2/16/15 MIRU. Load & test 9 5/8" x 5 1/2" annulus to 1500# for 15 mins. Good test. Ran CBL. TOC @ 2000'. Set CBP @ 11880'. Perforate 11830-11840' (60) & perform injection test.

3/2/15 to 3/5/15 Perforate Bone Spring 7595-11781' (504). Acdz w/85169 gal 7 1/2%; frac w/6263993# sand & 5157527 gal fluid.

3/8/15 Began flowing back & testing.

3/9/15 Date of 1st production.

3/14/15 to 3/16/15 Drilled out frac plugs. Clean down to CBP @ 11880'.

NM OIL CONSERVATION
ARTESIA DISTRICT
APR 06 2015
RECEIVED

14. I hereby certify that the foregoing is true and correct.
Electronic Submission #296959 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 04/01/2015

THIS SPACE FOR FEDERAL OR STA

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 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.

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

Additional data for EC transaction #296959 that would not fit on the form

32. Additional remarks, continued

3/17/15 to 3/18/15 Set 2 7/8" 6.5# J-55 tbg @ 7563' & pkr @ 6704'.

Form 3160-5
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010

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 reverse side.

5. Lease Serial No.
NMNM114965

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.
HORNED OWL FEDERAL 1H

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

9. API Well No.
30-015-42484

3a. Address
2208 WEST MAIN
ARTESIA, NM 88210

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

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

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Sec 25 T26S R26E NWNW 20FNL 330FWL

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			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☒ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other Drilling Operations
	☐ 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 shall 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 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.)

1/23/15 Spud well. TD 17 1/2" hole @ 295'. Set 13 3/8" 54.5# J-55 csg @ 295'. Cmt w/350 sx Class C. Circ 165 sx to surface. WOC 18 hrs. Test csg to 1900# for 30 mins. Drilled out 5' below FS w/10# brine - no loss of circ.

1/26/15 TD 12 1/4" hole @ 2014'. Set 9 5/8" 40# J-55 csg @ 2012'. Cmt w/550 sx Class C. Tailed in w/250 sx. Circ 195 sx. WOC 18 hrs. Test csg to 1200#. Drilled out 5' below FS w/10# brine - no loss of circ.

1/31/15 TD 8 3/4" vertical hole @ 6729' (KOP).

2/6/15 TD 7 7/8" lateral @ 11930'. Set 5 1/2" 17# P-110 csg @ 11930'. Cmt w/850 sx Class H. Tailed in w/1450 sx. DNC.

NM OIL CONSERVATION
ARTESIA DISTRICT
APR 06 20

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14. I hereby certify that the foregoing is true and correct.
Electronic Submission #292726 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 02/23/2015

THIS SPACE FOR FEDERAL OR S

Pending BLM approvals will subsequently be reviewed and scanned

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

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.

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

Additional data for EC transaction #292726 that would not fit on the form

32. Additional remarks, continued

2/8/15 Rig released.

ARTESIA DISTRICT

APR 06 2015

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. NMNM114965

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.: HORNED OWL FEDERAL 1H

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

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

9. API Well No.: 30-015-42484

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
At surface: NWNW 20FNL 330FWL
At top prod interval reported below: Sec 25 T26S R26E Mer NMP
At total depth: SWSW 349FSL 479FWL

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

11. Sec., T., R., M., or Block and Survey or Area: Sec 25 T26S R26E Mer NMP

12. County or Parish: EDDY

13. State: NM

14. Date Spudded: 01/23/2015

15. Date T.D. Reached: 02/06/2015

16. Date Completed ☐ D & A ☒ Ready to Prod. 03/05/2015

17. Elevations (DF, KB, RT, GL)*: 3415 GL

18. Total Depth: MD 11930 TVD 7318

19. Plug Back T.D.: MD 11880 TVD 7318

20. Depth Bridge Plug Set: MD 11880 TVD 7318

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	295		350		0	
12.250	9.625 J55	40.0	0	2012		800		0	
7.875	5.500 P110	17.0	0	11930		2300		2000	

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	7563	6704						

25. Producing Intervals / 26. Perforation Record

	Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A)	BONE SPRING	7595	11840	7595 TO 11781	0.430	504	OPEN
B)				11830 TO 11840		60	OPEN
C)							
D)							

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

Depth Interval	Amount and Type of Material
7595 TO 11781	SEE IN REMARKS

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
03/09/2015	03/24/2015	24	→	590.0	840.0	2549.0			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
46/64	570		→	590	840	2549		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 Grav
			→					

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

Pending BLM approvals will subsequently be reviewed and scanned AD

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

ELECTRONIC SUBMISSION #296967 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.)*
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
LAMAR	1948	1987		TOS	412
BELL CANYON	1988	2823		BOS	1813
CHERRY CANYON	2824	3980		LAMAR	1948
BRUSHY CANYON	3981	5538		BELL CANYON	1988
BONE SPRING LM	5539	6493		CHERRY CANYON	2824
1ST BONE SPRING	6494	7326		BRUSHY CANYON	3981
2ND BONE SPRING	7327	7346		BONE SPRING LM	5539
				1ST BONE SPRING	6494

32. Additional remarks (include plugging procedure):

Perfs	7 1/2" Sand (#)	Fluid (gal)
11576-11781	7182	448979 387618
11270-11474	6048	451138 372498
10963-11168	6006	450169 370800
10651-10861	5964	450321 368214
10351-10555	6006	449550 366114
10045-10249	6048	448460 368340
9739-9946	6006	450256 370440

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 #296967 Verified by the BLM Well Information System.
For COG OPERATING LLC, sent to the Carlsbad

Name *(please print)* STORMI DAVIS Title REGULATORY ANALYST

Signature (Electronic Submission) Date 04/01/2015

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 ****

Additional data for transaction #296967 that would not fit on the form

32. Additional remarks, continued

9432-9636 5982 450112 366857
9126-9330 5982 450108 367602
8819-9024 6006 448746 365610
8511-8718 5922 446232 364770
8209-8412 6006 450606 364224
7901-8105 5964 452625 362628
7595-7805 6048 416691 361812
Totals 85169 6263993 5157527

Additional Tops:
2nd Bone Spring 7327

Surveys attached.