

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

Form C-104
Revised August 1, 2011

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

Submit one copy to appropriate District Office

AMENDED REPORT

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 - 015-42472	⁵ Pool Name Welch; Bone Spring	⁶ Pool Code 64010
⁷ Property Code 39841	⁸ Property Name Barn Owl Federal	⁹ Well Number 2H

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
B	19	26S	27E		520	North	1450	East	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
B	18	26S	27E		334	North	1894	East	Eddy

¹² Lse Code F	¹³ Producing Method Code F	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date
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III. Oil and Gas Transporters

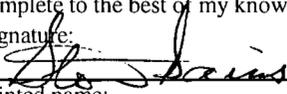
¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
151618	Enterprise Field Services, LLC P.O. Box 4503 Houston, TX 77210-4503	O
	NM OIL CONSERVATION ARTESIA DISTRICT NOV 21 2014 RECEIVED	

IV. Well Completion Data

²¹ Spud Date 7/29/14	²² Ready Date 10/11/14	²³ TD 14118'	²⁴ PBTD 14100'	²⁵ Perforations 9527-14005'	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17 1/2"	13 3/8"	360'	400		
12 1/4"	9 5/8"	2030'	750		
8 3/4"	5 1/2"	14105'	2750		
	2 7/8"	9023'			

V. Well Test Data

³¹ Date New Oil 10/15/14	³² Gas Delivery Date	³³ Test Date 10/26/14	³⁴ Test Length 24 Hrs	³⁵ Tbg. Pressure	³⁶ Csg. Pressure 450#
³⁷ Choke Size 21/64"	³⁸ Oil 406	³⁹ Water 2379	⁴⁰ Gas		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: 	OIL CONSERVATION DIVISION				
Printed name: Stormi Davis	Approved by: 				
Title: Regulatory Analyst	Title: D. S. Sepulveda				
E-mail Address: sdavis@concho.com	Approval Date: 12/18/14				
Date: 11/19/14	Phone: 575-748-6946				

Pending BLM approvals will subsequently be reviewed and scanned

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.

5. Lease Serial No.
NMNM114969

6. If Indian, Allottee or Tribe Name

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

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

8. Well Name and No.
BARN OWL FEDERAL 2H

9. API Well No.
30-015-42472

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

11. County or Parish, and State
EDDY COUNTY, NM

1. Type of Well
 Oil Well Gas Well Other

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

3a. Address
2208 WEST MAIN
ARTESIA, NM 88210

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

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 19 T26S R27E Mer NMP NWNE 520FNL 1450FEL

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 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.)

8/29/14 to 10/11/14 Set CBP @ 14055'. Test csg to 8511#. Test good. Perforate Bone Spring 9527-14005' (540). Acdz w/74660 gal 7 1/2% acid. Frac w/5448961# sand & 4676243 gal fluid.

10/13/14 Began flowing back & testing.

10/15/14 Date of first production.

10/30/14 to 11/5/14 Drilled out all frac plugs & CBP @ 14055'. Clean down to PBTD @ 14100'.

11/10/14 Set 2 7/8" 6.5# L-80 tbg @ 9023' & pkr @ 8132'. Installed gas-lift system.

Accepted for record
APD NMOCD 12/18/14

14. I hereby certify that the foregoing is true and correct.
Electronic Submission #279063 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 11/13/2014

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 willfully to make any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

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

NM OIL CONSERVATION
ARTESIA DISTRICT

Form 3160-4
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NOV 21 2014

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

WELL COMPLETION OR RECOMPLETION REPORT

5. Lease Serial No.
NMNM114969

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

8. Lease Name and Well No.
BARN OWL FEDERAL 2H

9. API Well No.
30-015-42472

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

11. Sec., T., R., M., or Block and Survey,
or Area Sec 19 T26S R27E Mer NMP

12. County or Parish
EDDY

13. State
NM

17. Elevations (DF, KB, RT, GL)*
3319 GL

22. Was well cored? No Yes (Submit analysis)
Was DST run? No Yes (Submit analysis)
Directional Survey? No Yes (Submit analysis)

1a. Type of Well Oil Well Gas Well Dry Other

b. Type of Completion New Well Work Over Deepen Plug Back Diff. Resvr.
Other _____

2. Name of Operator
COG OPERATING LLC

Contact: STORMI DAVIS
E-Mail: sdavis@concho.com

3. Address 2208 W MAIN ST
ARTESIA, NM 88210

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

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
Sec 19 T26S R27E Mer NMP
At surface NWNE 520FNL 1450FEL
At top prod interval reported below
Sec 18 T26S R27E Mer NMP
At total depth NWNE 334FNL 1894FEL

14. Date Spudded
07/29/2014

15. Date T.D. Reached
08/15/2014

16. Date Completed
 D & A Ready to Prod.
10/11/2014

18. Total Depth: MD 14118
TVD 8750

19. Plug Back T.D.: MD 14100
TVD 8750

20. Depth Bridge Plug Set: MD
TVD

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

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 H40	48.0	0	360		400		0	
12.250	9.625 J55	36.0	0	2030		750		0	
8.750	5.500 P110	17.0	0	14105		2750		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	9023	8132						

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) BONE SPRING	9527	14005	9527 TO 14005	0.430	540	OPEN
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
9527 TO 14005	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
10/15/2014	10/26/2014	24	→	406.0		2379.0			FLOWS FROM WELL
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
21/64	SI	450.0	→	406		2379		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 S	
	SI		→						

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

ELECTRONIC SUBMISSION #280567 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

Pending BLM approvals will
subsequently be reviewed
and scanned
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	2037	2073		TOS	359
BELL CANYON	2074	2929		BOS	1854
CHERRY CANYON	2930	4040		LAMAR	2037
BRUSHY CANYON	4041	5629		BELL CANYON	2074
BONE SPRING LM	5630	6580		CHERRY CANYON	2930
1ST BONE SPRING	6581	7098		BRUSHY CANYON	4041
2ND BONE SPRING	7099	8404		BONE SPRING LM	5630
3RD BONE SPRING	8405	8750		1ST BONE SPRING	6581

32. Additional remarks (include plugging procedure):

Perfs 7 1/2" Sand (#) Fluid (gal)
 13801-14005' 3000 452897 391038
 13496-13700' 5964 453225 403074
 13196-13394' 5982 452598 375246
 12885-13089' 5982 454591 420606
 12580-12784' 8250 471921 401726
 11359-11562' 8988 452377 414120
 11054-11257' 5999 425083 364890

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 #280567 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 11/19/2014

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.

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

Additional data for transaction #280567 that would not fit on the form

32. Additional remarks, continued

10748-10952' 5982 417378 364620
10443-10649' 5982 452165 412458
10138-10341' 5982 452599 371886
9832-10036' 5999 453161 368711
9527-9731' 6552 510966 387870
Totals 74660 5448961 4676243

Additional Tops:
2nd Bone Spring 7099
3rd Bone Spring 8405

Surveys and logs are attached.