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

HOBBS OCD
DEC 17 2018
RECEIVED

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 – 025-44640	WC-025 G-08 S253534O; ~~Wildcat~~; Bone Spring	97088 K2
[7] Property Code	[8] Property Name	[9] Well Number
321160	Hennin Federal	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
B	3	26S	35E		210	North	2132	East	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
O	3	26S	35E		200	South	1956	East	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	10/19/18			

III. Oil and Gas Transporters

[18] Transporter OGRID	[19] Transporter Name and Address	[20] O/G/W
	ACC	O
	Targa Midstream Services, LP 1000 Louisiana Ste 4700 Houston, TX 77002	G

IV. Well Completion Data

[21] Spud Date	[22] Ready Date	[23] TD	[24] PBTD	[25] Perforations	[26] DHC, MC
5/19/18	10/19/18	17,199'	16,962'	12,496-16,949'	

[27] Hole Size	[28] Casing & Tubing Size	[29] Depth Set	[30] Sacks Cement
14 3/4"	10 3/4"	1009'	850
9 7/8"	7 5/8"	11720'	1950
6 3/4"	5 & 5 1/2"	17180'	1260
	2 7/8"	11456'	

V. Well Test Data

[31] Date New Oil	[32] Gas Delivery Date	[33] Test Date	[34] Test Length	[35] Tbg. Pressure	[36] Csg. Pressure
10/19/18	10/19/18	10/19/18	24 Hrs	3800#	2800#
[37] Choke Size	**[38] Oil**	**[39] Water**	**[40] Gas**		**[41] Test Method**
18/64"	229	2586	512		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: Amanda Avery

Printed name: Amanda Avery

Title: Regulatory Tech II

E-mail Address: aavery@concho.com

Date: 12/13/18

Phone: 575-748-6962

OIL CONSERVATION DIVISION

Approved by: Karen Sharp

Title: Staff Mgr

Approval Date: 12-18-18

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

HOBBS OCD
DEC 17 2018
RECEIVED

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.
NMNM120365

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.
HENNIN FEDERAL 12H

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

9. API Well No.
30-025-44640

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
WILDCAT; BONE SPRING

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Sec 3 T26S R35E Mer NMP NWNE 210FNL 2132FEL

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 Hydraulic Fracture
	☐ 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.

7/28/18 Set composite bridge plug @ 17065' and test csg to 8540# for 30 mins. Good test.

7/29/18 to 8/7/18 Perf and plug 12,496-16,949' (750). Acdz w/74,088 gal 7 1/2%; frac w/9,004,665# sand & 7,846,398 gal fluid.
8/10/18 to 8/10/18 Drilled out composite frac plug's. Clean down to PBTD 16,962'.

8/14/18 Set 2 7/8" 6.5# J-55 tbg @ 11456' & pkr @ 11446'. Installed gas-lift system.

10/19/18 Began flowing back & testing. Date of first production

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

Electronic Submission #447675 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 12/13/2018

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 _____

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowing ...ent or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdic...

Documents pending BLM approvals will subsequently be reviewed and scanned

(Instructions on page 2)

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ...OR-SUBMITTED **

Hennin Federal #12H

Perfs	7 1/2% Acid (Gal)	Sand (#)	Fluid (Gal)
1	3024	360000	350826
2	3024	360000	310422
3	3024	359997	304206
4	3024	360012	450954
5	3024	360030	329784
6	3024	360089	324660
7	3024	360354	306516
8	3024	359869	311598
9	1512	360241	294336
10	3024	360028	308406
11	3024	360784	309750
12	3024	362199	310758
13	3024	360163	304164
14	3024	360320	301140
15	3024	359763	308658
16	3024	359993	310044
17	3024	359521	322560
18	3024	360081	298998
19	3024	360047	296604
20	3024	360140	293664
21	3024	360893	302316
22	3024	360040	303072
23	3024	360132	296394
24	3024	360072	298956
25	3024	359897	297612
Totals	**74,088**	**9,004,665**	**7,846,398**

	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
	16,949	14	5	16,809	23	5	16,632	20	5	16,453	18	5	16,261	30	5
	16,935	15	5	16,790	26	5	16,606	21	5	16,426	29	5	16,239	23	5
From Bottom to Top	16,920	15	4	16,764	27	4	16,585	24	4	16,397	16	4	16,216	21	4
	16,905	15	4	16,737	18	4	16,561	22	4	16,381	23	4	16,195	20	4
	16,890	13	3	16,719	22	3	16,539		3	16,358	22	3	16,175	22	3
	16,877	22	3	16,697	23	3	16,516	22	3	16,336	23	3	16,153	20	3
	16,855	23	3	16,674	22	3	16,494	23	3	16,313	22	3	16,133	22	3
	16,832		3	16,652		3	16,471		3	16,291		3	16,111		3
	Plug to Plug	52	30	Plug to Plug	80	30	Plug to Plug	79	30	Plug to Plug	80	30	Plug to Plug	74	30
	Frac Plug	16,957	Total Shots	Frac Plug	16,817	Total Shots	Frac Plug	16,640	Total Shots	Frac Plug	16,461	Total Shots	Frac Plug	16,269	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
	16,088	23	5	15,910	20	5	15,714	35	5	15,546	23	5	15,365	23	5
	16,065	23	5	15,884	22	5	15,695	14	5	15,527	26	5	15,343	23	5
From Bottom to Top	16,042	25	4	15,862	23	4	15,681	22	4	15,501	27	4	15,320	22	4
	16,017	20	4	15,839	22	4	15,659	23	4	15,474	18	4	15,298	18	4
	15,997	22	3	15,817	23	3	15,636	22	3	15,456	24	3	15,280	27	3
	15,975	28	3	15,794	19	3	15,614	23	3	15,432	21	3	15,253	26	3
	15,947	17	3	15,775	26	3	15,591	22	3	15,411	23	3	15,227	19	3
	15,930		3	15,749		3	15,569		3	15,388		3	15,208		3
	Plug to Plug	79	30	Plug to Plug	79	30	Plug to Plug	63	30	Plug to Plug	80	30	Plug to Plug	75	30
	Frac Plug	16,096	Total Shots	Frac Plug	15,918	Total Shots	Frac Plug	15,722	Total Shots	Frac Plug	15,554	Total Shots	Frac Plug	15,373	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
	15,172	36	5	15,004	23	5	14,824	23	5	14,630	36	5	14,463	24	5
	15,162	22	5	14,985	26	5	14,801	22	5	14,621	23	5	14,445	27	5
From Bottom to Top	15,140	23	4	14,959	28	4	14,779	23	4	14,598	22	4	14,418	19	4
	15,117	22	4	14,931	17	4	14,756	19	4	14,576	23	4	14,399	26	4
	15,095	23	3	14,914	23	3	14,737	27	3	14,553	22	3	14,373	23	3
	15,072	22	3	14,891	22	3	14,710	24	3	14,531	23	3	14,350	22	3
	15,050	23	3	14,869	22	3	14,686	20	3	14,508	21	3	14,328	23	3
	15,027		3	14,847		3	14,666		3	14,487		3	14,305		3
	Plug to Plug	63	30	Plug to Plug	81	30	Plug to Plug	76	30	Plug to Plug	62	30	Plug to Plug	72	30
	Frac Plug	15,180	Total Shots	Frac Plug	15,012	Total Shots	Frac Plug	14,832	Total Shots	Frac Plug	14,638	Total Shots	Frac Plug	14,471	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
	14,282	23	5	14,105	19	5	13,912	32	5	13,732	23	5	13,560	23	5
	14,260	23	5	14,079	29	5	13,899	23	5	13,715	19	5	13,538	23	5
From Bottom to Top	14,237	22	4	14,050	16	4	13,876	22	4	13,696	23	4	13,515	22	4
	14,215	23	4	14,034	24	4	13,854	23	4	13,673	22	4	13,493	21	4
	14,192	22	3	14,010	21	3	13,831	31	3	13,651	23	3	13,472	24	3
	14,170	22	3	13,989	22	3	13,800	20	3	13,628	22	3	13,448	28	3
	14,148	24	3	13,967	23	3	13,780	25	3	13,606	23	3	13,420	18	3
	14,124		3	13,944		3	13,755		3	13,583		3	13,402		3
	Plug to Plug	75	30	Plug to Plug	79	30	Plug to Plug	66	30	Plug to Plug	67	30	Plug to Plug	75	30
	Frac Plug	14,290	Total Shots	Frac Plug	14,113	Total Shots	Frac Plug	13,920	Total Shots	Frac Plug	13,740	Total Shots	Frac Plug	13,568	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
	13,365	37	5	13,192	30	5	13,015	23	5	12,832	29	5	12,633	47	5
	13,350	16	5	13,177	23	5	12,996	22	5	12,816	25	5	12,620	20	5
From Bottom to Top	13,334	22	4	13,154	20	4	12,974	23	4	12,791	20	4	12,600	20	4
	13,312	22	4	13,134	25	4	12,951	22	4	12,771	23	4	12,580	21	4
	13,290	23	3	13,109	29	3	12,929	23	3	12,748	22	3	12,559	18	3
	13,267	22	3	13,080	16	3	12,906	22	3	12,726	23	3	12,541	22	3
	13,245	23	3	13,064	26	3	12,884	23	3	12,703	23	3	12,519	23	3
	13,222		3	13,038		3	12,861		3	12,680		3	12,496		3
	Plug to Plug	61	30	Plug to Plug	66	30	Plug to Plug	72	30	Plug to Plug	76	30	Plug to Plug	53	30
	Frac Plug	13,373	Total Shots	Frac Plug	13,200	Total Shots	Frac Plug	13,023	Total Shots	Frac Plug	12,847	Total Shots	Frac Plug	12,633	Total Shots

HOBBS OCD

DEC 17 2018

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. NMNM120365

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.: HENNIN FEDERAL 12H

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

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

9. API Well No.: 30-025-44640

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

At surface: NWNE Lot B 210FNL 2132FEL 32.078998 N Lat, 103.353738 W Lon

At top prod interval reported below: NWNE Lot B 210FNL 2132FEL 32.078998 N Lat, 103.353738 W Lon

At total depth: Lot O 200FSL 1956FEL

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

11. Sec., T., R., M., or Block and Survey or Area: Sec 3 T26S R35E Mer NMP

12. County or Parish: LEA

13. State: NM

14. Date Spudded: 05/19/2018

15. Date T.D. Reached: 07/09/2018

16. Date Completed: ☐ D & A ☒ Ready to Prod. 10/19/2018

17. Elevations (DF, KB, RT, GL)*: 3170 GL

18. Total Depth: MD 17199 TVD 12443

19. Plug Back T.D.: MD 16962 TVD 12443

20. Depth Bridge Plug Set: MD 17065 TVD 12443

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	1009		850		0	
6.750	5.500 P110	23.0	0	11317				0	
9.875	7.625 L80	29.7	0	11720	5278	1950		0	
6.750	5.000 P110	18.0	11317	17180		1260		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	11456	11446						

25. Producing Intervals / 26. Perforation Record

	Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A)	BONE SPRING	12496	16949	12496 TO 16949		750	
B)							
C)							
D)							

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

Depth Interval	Amount and Type of Material
12496 TO 16949	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
10/19/2018	10/19/2018	24	→	229.0	2586.0	512.0			GAS LIFT

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
18/64	3800	2800.0	→	229	2586	512		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 Status
			→					

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

ELECTRONIC SUBMISSION #447676 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

Documents pending BLM approvals will subsequently be reviewed and scanned

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
RUSTLER	932			RUSTLER	932
TOP OF SALT	1262			TOP OF SALT	1262
LAMAR	5251			LAMAR	5251
BELL CANYON	5273			BELL CANYON	5273
CHERRY CANYON	6185			CHERRY CANYON	6185
BRUSHY CANYON	7800			BRUSHY CANYON	7800
BONE SPRING 1ST	10357			BONE SPRING 1ST	10357
BONE SPRING 2ND	10889			BONE SPRING 2ND	10889

32. Additional remarks (include plugging procedure):
BONE SPRING 3rd 12008

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 #447676 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 12/13/2018

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 ****