

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM 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.*5. Lease Serial No.
NMNM126965

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

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

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.

GRAHAM NASH FEDERAL COM 7H

2. Name of Operator

COG OPERATING LLC

Contact: STORMI DAVIS

E-Mail: sdavis@concho.com

9. API Well No.

30-015-43811

3a. Address

2208 WEST MAIN
ARTESIA, NM 88210

3b. Phone No. (include area code)

Ph: 575-748-6946

10. Field and Pool or Exploratory Area

HAY HOLLOW; BONE SPRING

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 21 T26S R28E Mer NMP SESW 200FSL 1550FWL

11. County or Parish, State

EDDY COUNTY, NM

12. CHECK THE 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"/> Hydraulic Fracturing	<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 must 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 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.

3/8/17 Test annulus to 1500#. Good test. Ran CBL. TOC @ 1534'. Set CBP @ 15050' & test csg to 8512#. Good test. Perf 15075-15085' (60). Injection test.

3/26/17 to 3/30/17 Perf 8198-15025' (828). Acids w/70,938 gal 7 1/2%; frac w/10,615,683# sand & 8,891,316 gal fluid.

4/3/17 to 4/5/17 Drilled out CFP's. Clean down to CBP @ 15050'.

4/6/17 Set 2 7/8" 6.5# J-55 tbg @ 7404' & pkr @ 7394'. Installed gas-lift valves. SI for tank battery construction.

5/18/17 Began flowing back & testing.

NM OIL CONSERVATION
ARTESIA DISTRICT
JUN 05 2017**RECEIVED**

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

Electronic Submission #377642 verified by the BLM Well Infor
For COG OPERATING LLC, sent to the CarlsbadPending BLM approvals will
subsequently be reviewed
and scanned

Name (Printed/Typed) STORMI DAVIS

Title PREPARER

Signature (Electronic Submission)

Date 06/01/2017

AC 6-6-17

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

Title

Date

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.

(Instructions on page 2)

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

Additional data for EC transaction #377642 that would not fit on the form

32. Additional remarks, continued

5/19/17 Date of first production.

JUN 05 2017

Form 3160-4
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No. NMNM126965	
6. If Indian, Allottee or Tribe Name	
7. Unit or CA Agreement Name and No.	
8. Lease Name and Well No. GRAHAM NASH FEDERAL COM 7H	
9. API Well No. 30-015-43811	
10. Field and Pool, or Exploratory HAY HOLLOW; BONE SPRING	
11. Sec., T., R., M., or Block and Survey or Area Sec 21 T26S R28E Mer NMP	
12. County or Parish EDDY	13. State NM
17. Elevations (DF, KB, RT, GL)* 2989 GL	

1a. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other	
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 _____	
2. Name of Operator COG OPERATING LLC	
Contact: STORMI DAVIS E-Mail: sdavis@concho.com	
3. Address 2208 WEST MAIN 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)* At surface Sec 21 T26S R28E Mer NMP SESU 200FSL 1550FWL At top prod interval reported below Sec 33 T26S R28E Mer NMP At total depth SENW Lot 2 208FSL 1938FWL	
14. Date Spudded 02/13/2017	15. Date T.D. Reached 02/28/2017
16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 05/18/2017	
18. Total Depth: MD 15208 TVD 7853	19. Plug Back T.D.: MD 15050 TVD 7858
20. Depth Bridge Plug Set: MD 15050 TVD 7858	
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 Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17.500	13.375 J55	54.5	0	340		430		0	
12.250	9.625 J55	36.0	0	2363		875		0	
8.750	5.500 P110	17.0	0	15208		3045		1534	

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	8198	15025						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) BONE SPRING	8198	15025	8198 TO 15025	0.430	828	OPEN
B)			15075 TO 15085		60	UNDER CBP
C)						
D)						

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

Depth Interval	Amount and Type of Material
8198 TO 15025	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
05/19/2017	05/19/2017	24	→	8.0	0.0	1290.0			FLOW FROM WELL
Choke Size	Tbg. Press. Flwg. SI	Csg. Press. 225	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
		225.0	→	8	0	1290		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 Gr	
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

Pending BLM approvals will subsequently be reviewed and scanned

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

ELECTRONIC SUBMISSION #377645 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

SC 6-6-17

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	2391	2423		RUSTLER	277
BELL CANYON	2424	3226		TOS	634
CHERRY CANYON	3227	4486		BOS	2209
BRUSHY CANYON	4487	6098		LAMAR	2391
BONE SPRING LM	6099	6992		BELL CANYON	2424
1ST BONE SPRING	6993	7675		CHERRY CANYON	3227
2ND BONE SPRING	7676	7899		BRUSHY CANYON	4487
				BONE SPRING LM	6099

32. Additional remarks (include plugging procedure):
Surveys, perms & stimulation are attached.

Additional Tops:
1st Bone Spring 6993'
2nd Bone Spring 7676'

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 #377645 Verified by the BLM Well Information System.
For COG OPERATING LLC, sent to the Carlsbad

Name (please print) STORMI DAVIS

Title PREPARER

Signature (Electronic Submission)

Date 06/01/2017

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 ****

GRAHAM NASH FEDERAL COM #7H (30-015-43811)

<u>Perfs</u>	<u>7 1/2% Acid (Gal)</u>	<u>Sand (#)</u>	<u>Fluid (Gal)</u>
1	4032	451190	486234
2	3024	453882	381150
3	3066	458656	381864
4	3024	456265	381234
5	3108	452898	376992
6	3024	455678	372834
7	3024	451027	371826
8	2982	449391	370440
9	3024	449879	374514
10	3066	449655	369180
11	3066	450820	369138
12	3024	451258	364686
13	3066	449327	363258
14	3024	449608	363300
15	3066	452003	363048
16	3024	450544	361788
17	3024	451687	364476
18	3024	450014	360780
19	3066	445801	358512
20	3066	679268	650622
21	3066	450060	363426
22	3024	452268	383124
23	3024	454504	358890
Totals	70,938	10,615,683	8,891,316

Graham Nash Federal Com #7H

	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
From Bottom to Top	15,025	100	14	14,719	105	14	14,424	99	14	14,121	101	14	13,820	101	14
	14,925	101	12	14,623	100	12	14,322	100	12	14,018	97	12	13,723	104	12
	14,824		10	14,523		10	14,222		10	13,921		10	13,619		10
Plug to Plug	270		36	Plug to Plug	307	36	Plug to Plug	301	36	Plug to Plug	302	36	Plug to Plug	301	36
Frac Plug	15,050		Total Shots	Frac Plug	14,780	Total Shots	Frac Plug	14,473	Total Shots	Frac Plug	14,172	Total Shots	Frac Plug	13,870	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
From Bottom to Top	13,518	100	14	13,217	101	14	12,917	100	14	12,615	101	14	12,314	101	14
	13,419	101	12	13,117	100	12	12,816	100	12	12,515	100	12	12,214	101	12
	13,318		10	13,017		10	12,716		10	12,415		10	12,113		10
Plug to Plug	312		36	Plug to Plug	290	36	Plug to Plug	301	36	Plug to Plug	302	36	Plug to Plug	311	36
Frac Plug	13,569		Total Shots	Frac Plug	13,257	Total Shots	Frac Plug	12,967	Total Shots	Frac Plug	12,666	Total Shots	Frac Plug	12,364	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
From Bottom to Top	12,013	100	14	11,712	100	14	11,411	100	14	11,110	101	14	10,811	98	14
	11,913	101	12	11,617	106	12	11,310	99	12	11,009	100	12	10,708	100	12
	11,812		10	11,511		10	11,211		10	10,909		10	10,608		10
Plug to Plug	291		36	Plug to Plug	301	36	Plug to Plug	310	36	Plug to Plug	292	36	Plug to Plug	302	36
Frac Plug	12,053		Total Shots	Frac Plug	11,762	Total Shots	Frac Plug	11,461	Total Shots	Frac Plug	11,151	Total Shots	Frac Plug	10,859	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
From Bottom to Top	10,507	101	14	10,206	100	14	9,905	98	14	9,601	103	14	9,302	101	14
	10,406	100	12	10,106	103	12	9,804	100	12	9,503	100	12	9,207	105	12
	10,306		10	10,003		10	9,704		10	9,403		10	9,102		10
Plug to Plug	301		36	Plug to Plug	304	36	Plug to Plug	294	36	Plug to Plug	305	36	Plug to Plug	302	36
Frac Plug	10,557		Total Shots	Frac Plug	10,256	Total Shots	Frac Plug	9,952	Total Shots	Frac Plug	9,658	Total Shots	Frac Plug	9,353	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
From Bottom to Top	9,001	101	14	8,700	102	14	8,402	97	14						
	8,901	99	12	8,600	101	12	8,298	100	12					0	
	8,802		10	8,499		10	8,198		10						
Plug to Plug	309		36	Plug to Plug	290	36	Plug to Plug	8452	36	Plug to Plug	0	0	Plug to Plug	0	0
Frac Plug	9,051		Total Shots	Frac Plug	8,742	Total Shots	Frac Plug	8,452	Total Shots	Frac Plug		Total Shots	Frac Plug		Total Shots