

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 One Concho Center 600 W. Illinois Ave. Midland, TX 79701		² OGRID Number 229137
		³ Reason for Filing Code/ Effective Date NW Effective 4/8/17
⁴ API Number 30 - 025-43272	⁵ Pool Name Maljamar, Yeso, West	⁶ Pool Code 44500
⁷ Property Code 315671	⁸ Property Name Ragnar Federal Com	⁹ Well Number 16H

II. ¹⁰ Surface Location

UL or lot no. B	Section 22	Township 17S	Range 32E	Lot Idn	Feet from the 100	North/South Line North	Feet from the 1870	East/West line East	County Lea
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¹¹ Bottom Hole Location

UL or lot no. B	Section 15	Township 17S	Range 32E	Lot Idn	Feet from the 250	North/South line North	Feet from the 1674	East/West line East	County Lea
¹² Lse Code F	¹³ Producing Method Code P	¹⁴ Gas Connection Date 4/8/17	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
27841	HollyFrontier Refining & Marketing LLC	O
36785	Frontier	G

IV. Well Completion Data

²¹ Spud Date 2/15/17	²² Ready Date 4/08/17	²³ TD 10,718MD, 5778TVD	²⁴ PBTB 10,639	²⁵ Perforations 6038 - 10,619	²⁶ DHC, MC
²⁷ Hole Size 17-1/2	²⁸ Casing & Tubing Size 13-3/8	²⁹ Depth Set 910	³⁰ Sacks Cement 725		
12-1/4	9-5/8	2192	650		
8-3/4	7	5059			
7-7/8	5-1/2	10,703	2300		
	2-7/8 tbg	5345			

V. Well Test Data

³¹ Date New Oil 4/15/17	³² Gas Delivery Date 4/14/17	³³ Test Date 4/18/17	³⁴ Test Length 24hrs	³⁵ Tbg. Pressure 70	³⁶ Csg. Pressure 70
³⁷ Choke Size	³⁸ Oil 499	³⁹ Water 1207	⁴⁰ Gas 460		⁴¹ Test Method P

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 Approved by:  Title: Petroleum Engineer Approval Date: 06/13/17	
Printed name: Kanicia Castillo			
Title: Lead Regulatory Analyst			
E-mail Address: kcastillo@concho.com			
Date: 5/23/17	Phone: 432-685-4332		

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.
NMLC029509B

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.
RAGNAR FEDERAL COM 16H9. API Well No.
30-025-4327210. Field and Pool or Exploratory Area
MALJAMAR11. County or Parish, State
LEA COUNTY, NM**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other2. Name of Operator
COG OPERATING LLCContact: KANICIA CASTILLO
E-Mail: kcastillo@concho.com3a. Address
600 W ILLINOIS AVE
MIDLAND, TX 797013b. Phone No. (include area code)
Ph: 432-685-4332

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

Sec 22 T17S R32E Mer NMP 100FNL 1870FEL

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	Drilling Operations
	<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.

Please see attached logs.

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

**Electronic Submission #377110 verified by the BLM Well Information System
For COG OPERATING LLC, sent to the Hobbs**

Name (Printed/Typed) KANICIA CASTILLO

Title PREPARER

Signature (Electronic Submission)

Date 05/23/2017

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 ****

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.
NMLC029509B

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.
RAGNAR FEDERAL COM 16H9. API Well No.
30-025-4327210. Field and Pool or Exploratory Area
MALJAMAR11. County or Parish, State
LEA COUNTY, NM**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other2. Name of Operator
COG OPERATING LLCContact: KANICIA CASTILLO
E-Mail: kcastillo@concho.com3a. Address
600 W ILLINOIS AVE
MIDLAND, TX 797013b. Phone No. (include area code)
Ph: 432-685-43324. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 22 T17S R32E Mer NMP 100FNL 1870FEL**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

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	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Drilling Operations
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Please see attached facility diagram.

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

**Electronic Submission #377107 verified by the BLM Well Information System
For COG OPERATING LLC, sent to the Hobbs**

Name (Printed/Typed) KANICIA CASTILLO

Title PREPARER

Signature (Electronic Submission)

Date 05/23/2017

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(Instructions on page 2)

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

SITE FACILITY DIAGRAM

RAGNAR FED COM 25H BATTERY
SECT 22, T17S, R32E
LEASE NO.: NMNM134918
LEA COUNTY, NM



WELLS

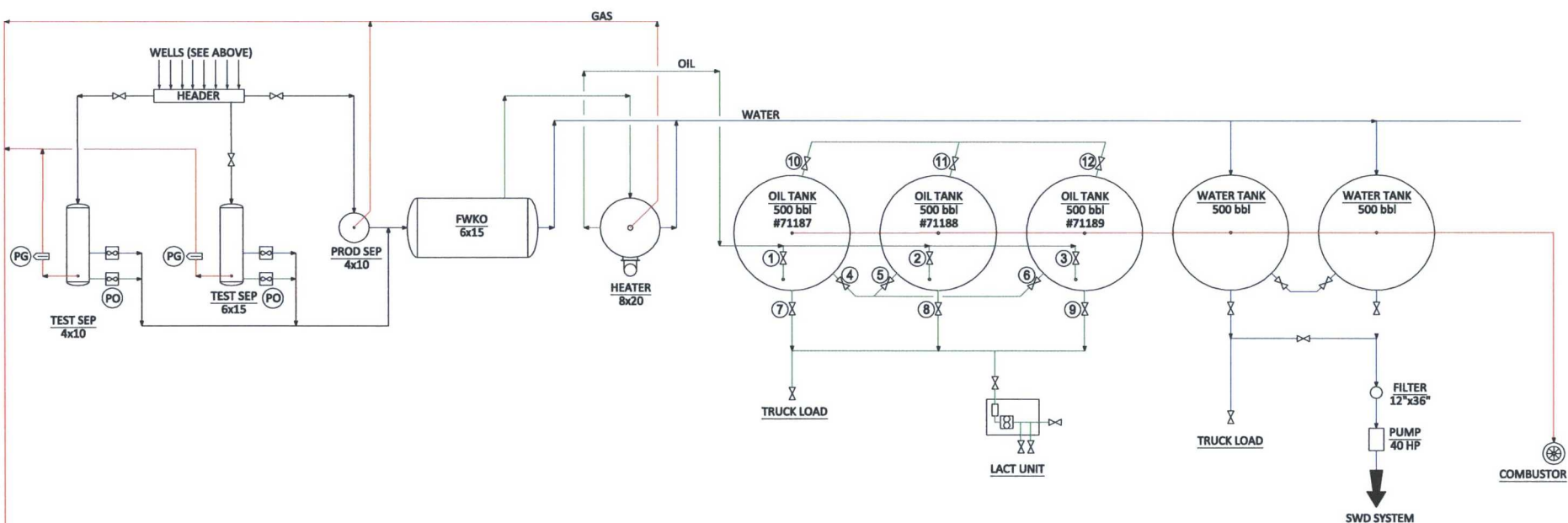
Ragnar Fed Com 15H: 30-025-43114
Ragnar Fed Com 16H: 30-025-43272
Ragnar Fed Com 25H: 30-025-43131
Ragnar Fed Com 26H: 30-025-43273

Production Phase - Oil Tank #1

- Valve 1 open
- Valves 2, 3, 30 closed
- Valves 4, 5, 6 and 20 open
- Valves 7, 8, 9 and 90 closed
- Valves 10, 11, and 12 closed

Sales Phase - Oil Tank #1

- Valve 1 closed
- Valves 2, 3 or 30 open
- Valve 4 closed
- Valves 5, 6 and 20 open
- Valve 7 open
- Valves 8, 9 and 90 closed
- Valves 10, 11, and 12 closed



GAS METER
DCP GAS SALES
METER #6742574

Ledger for Site Diagram

Produced Fluid: _____
Produced Oil: _____
Produced Gas: _____
Produced Water: _____



Location of Site Security Plan:
COG Operating, LLC.
600 W. Illinois
Midland, TX 79701

DATE:	BY:	REVISION DESCRIPTION
4/21/17	KH	Added 16H & 26H wells

SITE FACILITY DIAGRAM
RAGNAR FED COM 25H BATTERY
LEA COUNTY, NEW MEXICO

UNITED STATES
DEPARTMENT OF THE INTERIOR
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OMB NO. 1004-0137
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NMLC029509B

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.
RAGNAR FEDERAL COM 16H9. API Well No.
30-025-4327210. Field and Pool or Exploratory Area
MALJAMAR11. County or Parish, State
LEA COUNTY, NM**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other2. Name of Operator
COG OPERATING LLCContact: KANICIA CASTILLO
E-Mail: kcastillo@concho.com3a. Address
600 W ILLINOIS AVE
MIDLAND, TX 797013b. Phone No. (include area code)
Ph: 432-685-4332

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

Sec 22 T17S R32E Mer NMP 100FNL 1870FEL

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

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3/11/17 Test csg to 6147psi for 15mins, good. Spotted 2500 gals acid.

3/16/17 Pressure test frac valve to 7500#, good test.

3/17/17 - 3/24/17 Perf 26 stages @ 6038 ? 10,619 w/6 SPF, 936 holes. Acidize 26 stages w/102,816 gals 15% HCL. Frac w/325,332 gals treated water, 5,214,614 gals Slick water, 1,565,420# 100 mesh sand, 2,514,940# 40/70 White sand, 541,600# 40/70 Garnet.

4/5/17 ? 4/7/17 Drill out plugs. Clean out to PBTD 10,639.

4/8/17 RIH w/ESP, 161jts 2-7/8" J55 tbg, EOT @ 5345? Hang on.

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

**Electronic Submission #377041 verified by the BLM Well Information System
For COG OPERATING LLC, sent to the Hobbs**

Name (Printed/Typed) KANICIA CASTILLO

Title PREPARER

Signature (Electronic Submission)

Date 05/23/2017

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(Instructions on page 2)

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

Additional data for EC transaction #377116 that would not fit on the form

32. Additional remarks, continued

Muskegon 16 State Com 1 SWD - 30-015-27108 SWD-624
Water is trucked to central disposal when needed.

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☒ Oil Well ☐ Gas Well ☐ Other2. Name of Operator
COG OPERATING LLCContact: KANICIA CASTILLO
E-Mail: kcastillo@concho.com3a. Address
600 W ILLINOIS AVE
MIDLAND, TX 797013b. Phone No. (include area code)
Ph: 432-685-4332

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

Sec 22 T17S R32E Mer NMP 100FNL 1870FEL

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COG Operating LLC, respectfully requests this water disposal method for the following battery.

Ragnar Federal Com 25H battery

Producing Formation: Maljamar; Yeso, West

Amount Produced: 1260 BWPD

Water stored in 2 500 bbl Water Tanks

Water is transported by 4" DR9 Polypipe to COG's 8" main line water system. The water doesn't go to a particular well, it is distributed into the main water system and is distributed into either the Jenkins B Water Flood WFX-861 or the disposal wells in the system at the Empire Area. The Empire Area wells include the following:

GJ West Coop Unit Water Flood WFX-245-0

Chase 21 State Com 1 SWD - 30-015-30874 SWD-1007

Big George SWD 3 - 30-015-28759 SWD-611

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

Electronic Submission #377116 verified by the BLM Well Information System
For COG OPERATING LLC, sent to the Hobbs

Name (Printed/Typed) KANICIA CASTILLO

Title PREPARER

Signature (Electronic Submission)

Date 05/23/2017

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

HOBBS OCD

MAY 30 2017

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

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. NMLC029509B		
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			3a. Phone No. (include area code) Ph: 432-685-4332		
3. Address 600 W ILLINOIS AVE ONE CONCHO CENTER MIDLAND, TX 79701			9. API Well No. 30-025-43272		
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface Lot B 100FNL 1870FEL Sec 22 T17S R32E Mer NMP At top prod interval reported below Lot O 330FSL 1669FEL Sec 15 T17S R32E Mer NMP At total depth Lot B 250FNL 1674FEL			10. Field and Pool, or Exploratory MALJAMAR		
14. Date Spudded 02/15/2017			15. Date T.D. Reached 02/26/2017		
16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 04/08/2017			17. Elevations (DF, KB, RT, GL)* 4016 GL		
18. Total Depth: MD 10718 TVD 5778			19. Plug Back T.D.: MD 10639 TVD		
20. Depth Bridge Plug Set: MD TVD			21. Type Electric & Other Mechanical Logs Run (Submit copy of each) CN		
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
12.250	9.625 J55	40.0		2192		650			
8.750	7.000 L80	29.0		5059					
8.750	5.000 L80	17.0		10703		2300			
17.500	13.375 J55	54.5	0	910		725		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	5345							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) YESO	6038	10619	6038 TO 10619	0.430	936	OPEN
B)						
C)						
D)						

26. Perforation Record

Depth Interval	Amount and Type of Material
6038 TO 10619	ACIDIZE W/ 102,816 15% ACID, FRAC W/ 325,332 GALS TREATED WATER, 5,214,614 GALS SLICK WATER,

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
04/14/2017	04/18/2017	24	→	499.0	460.0	1207.0	42.0	0.60	ELECTRIC PUMP SUB-SURFACE
Choke Size	Tbg. Press. Flwg. SI	Csg. Press. 70.0	24 Hr. Rate →	Oil BBL 499	Gas MCF 460	Water BBL 1207	Gas:Oil Ratio 922	Well Status 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 #377109 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
RUSTLER QUEEN GRAYBURG SAN ANDRES PADDOCK	862 3178 3527 3916 5554		ANHYDRITE SANDSTONE DOLOMITE & ANHYDRITE DOLOMITE & ANHYDRITE DOLOMITE	RUSTLER QUEEN GRAYBURG SAN ANDRES PADDOCK	862 3178 3527 3916 5554

32. Additional remarks (include plugging procedure):
Logs will be submitted in WIS.

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 #377109 Verified by the BLM Well Information System.
For COG OPERATING LLC, sent to the Hobbs**

Name (please print) KANICIA CASTILLOTitle PREPARER

Signature _____ (Electronic Submission)

Date 05/23/2017

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.

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