

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OCD Artesia

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.*5. Lease Serial No.  
NMNM86025

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.

MCINTYRE DK FED 11

2. Name of Operator  
COG OPERATING LLCContact: ABIGAIL ANDERSON  
E-Mail: abbym@bcmmandassociates.com

9. API Well No.

30-015-30981-00-C1

3a. Address  
600 W ILLINOIS AVENUE  
MIDLAND, TX 797013b. Phone No. (include area code)  
Ph: 432-580-716110. Field and Pool or Exploratory Area  
GRAYBURG JACKSON-SR-Q-GRBG-  
LOCO HILLS-QU-GB-SA

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

Sec 17 T17S R30E SWSE 330FSL 2310FEL

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 checked="" 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 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 type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input checked="" 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 recomple 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.

1. Set 5 1/2" CIBP @ 4166'. Dump bail 35' or spot 25 sx cmt.
2. Set 5 1/2" CIBP @ 3906'. Dump bail 35' or spot 25 sx cmt. *Not Required.*
3. Set 5 1/2" CIBP @ 3267'. Dump bail 35' or spot 25 sx cmt.
4. Set 5 1/2" CIBP @ 2928'. Circulate hole w/ MLF. Pressure test csg, Spot 25 sx cmt @ 2928-2728'. **2703**
- WOC & Tag. (San Andres)
5. Spot 25 sx cmt @ 1092- 900'. WOC & Tag (8 5/8" Shoe & B/Salt)
6. Spot 55 sx cmt @ 506' to surface. (T/Salt & 13 3/8" Shoe) **582-54-7**
7. Cut off well head, verify cmt to surface, weld on Below Ground Dry Hole Marker.

SEE ATTACHED FOR  
CONDITIONS OF APPROVALGC 10/9/19  
Accepted for record - NMOCD

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

Electronic Submission #481998 verified by the BLM Well Information System  
For COG OPERATING LLC, sent to the Carlsbad  
Committed to AFMSS for processing by PRISCILLA PEREZ on 09/05/2019 (19PP3203SE)

Name (Printed/Typed) ABIGAIL ANDERSON

Title REGULATORY

Signature (Electronic Submission)

Date 09/05/2019

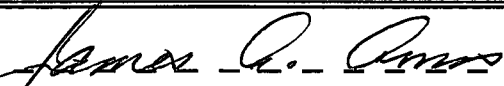
NM OIL CONSERVATION  
ARTESIA DISTRICT

OCT 07 2019

RECEIVED

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By



Title

SAET

Date

9-29-19

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.

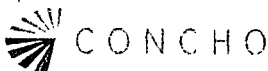
Office

CFO

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)

**\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\***



## CURRENT WELLBORE DIAGRAM

API: 30-015-30981  
SPUD: 04/03/2000  
FRR: 04/15/2000  
RIG: Silver Oak Rig

GL: 3,659'  
KB: 3,671'

McIntyre DK Federal #11  
GB / Jackson; Loco Hills Field  
SR / Q / G / SA; Glorieta-Yeso Pool  
Eddy County, NM  
GB/SA, Paddock Formation

SHL: Sec. 17, T 17S - R 30E  
330' FSL & 2,310' FEL

LAT: 32.8282623  
LONG: -103.9931259 NAD83

Hole Size: 17-1/2"

Surface Casing

13-3/8" 48# K-55 ST&C @ 4.56'

CMT'ed w/:

450 SX CLASS C + ADDS

CIRC. 86 SX

Hole Size: 12-1/4"

Intermediate Casing

8-5/8" 24# J-55 ST&C @ 1.042'

CMT'ed w/:

275 SX CLASS C + ADDS

200 SX CLASS C + ADDS

CIRC. 83 SX

Hole Size: 7-7/8"

Production Casing

5-1/2" 17# J-55 LT&C @ 4.737'

DVT @ 4,133'

CMT'ed w/:

STAGE 1: 130 SX 50-50-2 + ADDS

STAGE 2: 600 SX 35-65-6 + ADDS

250 SX 50-50-2 + ADDS

CIRC. 87 SX

Est.  
7/501ft 532  
8/501ft 1018

Actual  
Qu 2046

SA 2753

GI 4168

Perforations

GB/SA

2,978-3,222', 68 shots, 2 SPF

GB/SA

3,317-3,450', 54 shots, 2 SPF

GB/SA

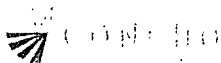
3,956-4,077', 42 shots, 2 SPF

Paddock

4,216-4,600', 70 shots, 1 SPF

Tubing Strings									
Tubing Description		Surf Date	String Length (ft)		Set Depth (ft)				
Tubing - Production		8/5/2017	4,660.09		4,660.1				
Item Desc	Qty	Unit	Weight	OD (in)	WT (lb/ft)	Grade	Length	Depth	Length
Tubing	68		T&C Upset	2 7/8	6.50	J-55	2,882		35
Tubing	1		T&C Upset	2 7/8	6.50	J-55	1.96		
Tubing	2		T&C Upset	2 7/8	6.50	J-55	61.63		
Anchoring Catcher	1			5 1/2			2.87		
Tubing	59		T&C Upset	2 7/8	6.50	J-55	1,825		70
Pump Sealing Nipple	1		T&C Upset	2 7/8	6.50	J-55	1.15		
Tubing	1		T&C Upset	2 7/8	6.50	J-55	2.93		
2737 Cavins Desander	1			2 7/8			19.30		
Tubing	2		T&C Upset	2 7/8	6.50	J-55	31.65		
Bull Plug	1			2 7/8			0.60		
Rod Strings									
Rod Description		Surf Date	String Length (ft)		Set Depth (ft)				
Rod		8/5/2017	4,669.03		4,576.0				
Item Desc	Qty	Unit	Weight	OD (in)	WT (lb/ft)	Grade	Length	Depth	Length
1 1/4" x 22' PR with 1 1/2" x 10' Liner	1			1 1/4		1045 Carbon	22.00		
2' Rod sub	1			7/8		N57	2.50		
Horiz FHT	61			7/8		N57	1,275		.00
Horiz FHT	13			3/4		N57	3,250		.00
Denton 250x150x20'	1			250		RHE M	26.00		
2' Strainer Nipple				250					

PBTD 4,723'



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FRR: 04/15/2000  
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Eddy County, NM  
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330' FSL & 2,310' FEL

GL: 3,659'  
KB: 3,671'

LAT: 32.8282623  
LONG: -103.9931259 NAD83

Hole Size: 17-1/2"

## Surface Casing

13-3/8" 48# K-55 ST&C @ 456'

CMT'ed w/:

CIRC 86 SX 450 SX CLASS C + ADDS

6. Spot 55 sx cmt @ 506' to surface. (T/Salt & 13 3/8" Shoe)

Hole Size: 12-1/4"

## Intermediate Casing

8-5/8" 24# J-55 ST&C @ 1042'

CMT'ed w/:

CIRC 83 SX 275 SX CLASS C + ADDS  
200 SX CLASS C + ADDS

5. Spot 25 sx cmt @ 1092-900'. WOC & Tag. (8 5/8" Shoe & B/Salt)

Hole Size: 7-7/8"

## Perforations

GB/SA  
2,973-3,222', 68 shots, 2 SPF

GB/SA  
3,317-3,450', 54 shots, 2 SPF

GB/SA  
3,556-4,077', 42 shots, 2 SPF

Paddock  
4,216-4,600', 50 shots, 1 SPF

4. Set 5 1/2" CIBP @ 2928'. Circ hole w/ MLF. Pressure test csg.  
Spot 25 sx cmt @ 2928-2726'. WOC & Tag (San Andres)

3. Set 5 1/2" CIBO @ 3267'. Dump bail 35' or spot 25 sx cmt.

2. Set 5 1/2" CIBP @ 3906'. Dump bail 35' or spot 25 sx cmt.

1. Set 5 1/2" CIBP @ 4166'. Dump bail 35' or spot 25 sx cmt.

## Production Casing

5-1/2" 17# J-55 LT&C @ 4,737'

DVT @ 4,133'

CMT'ed w/:

CIRC 87 SX

STAGE 1: 130 SX 50-50-2 + ADDS

STAGE 2: 600 SX 35-65-6 + ADDS

250 SX 50-50-2 + ADDS

EA: 09/08/2016

32.8282623  
-103.9931259

PBTD 4,722'

BUREAU OF LAND MANAGEMENT  
Carlsbad Field Office  
620 East Greene Street  
Carlsbad, New Mexico 88220  
575-234-5972

**Permanent Abandonment of Federal Wells  
Conditions of Approval (LPC Habitat)**

Failure to comply with the following Conditions of Approval may result in a Notice of Incidents of Noncompliance (INC) in accordance with 43 CFR 3163.1.

1. Plugging operations shall commence within **ninety (90)** days from the approval date of this Notice of Intent to Abandon.

**If you are unable to plug the well by the 90<sup>th</sup> day provide this office, prior to the 90<sup>th</sup> day, with the reason for not meeting the deadline and a date when we can expect the well to be plugged. Failure to do so will result in enforcement action.**

**The rig used for the plugging procedure cannot be released and moved off without the prior approval of the authorized officer. Failure to do so may result in enforcement action.**

2. **Notification:** Contact the appropriate BLM office at least 24 hours prior to the commencing of any plugging operations. For wells in Chaves and Roosevelt County, call 575-627-0272; Eddy County, call 575-361-2822; Lea County, call 575-393-3612.

3. **Blowout Preventers:** A blowout preventer (BOP), as appropriate, shall be installed before commencing any plugging operation. The BOP must be installed and maintained as per API and manufacturer recommendations. The minimum BOP requirement is a 2M system for a well not deeper than 9,090 feet; a 3M system for a well not deeper than 13,636 feet; and a 5M system for a well not deeper than 22,727 feet.

4. **Mud Requirement:** Mud shall be placed between all plugs. Minimum consistency of plugging mud shall be obtained by mixing at the rate of 25 sacks (50 pounds each) of gel per 100 barrels of **brine** water. Minimum nine (9) pounds per gallon.

5. **Cement Requirement:** Sufficient cement shall be used to bring any required plug to the specified depth and length. Any given cement volumes on the proposed plugging procedure are merely estimates and are not final. Unless specific approval is received, no plug except the surface plug shall be less than 25 sacks of cement. Any plug that requires a tag will have a minimum WOC time of 4 hours.

In lieu of a cement plug across perforations in a cased hole (not for any other plugs), a bridge plug set within 50 feet to 100 feet above the perforations shall be capped with 25 sacks of cement. If a bailer is used to cap this plug, 35 feet of cement shall be sufficient. **Before pumping or bailing cement on top of CIBP, tag will be required to verify depth. Based on depth, a tag of the cement may be deemed necessary.**

Unless otherwise specified in the approved procedure, the cement plug shall consist of either Neat Class "C", for up to 7,500 feet of depth or Neat Class "H", for deeper than 7,500 feet plugs.

6. Below Ground Level Cap (Lesser Prairie-Chicken Habitat): All casing shall be cut-off at the base of the cellar or 3 feet below final restored ground level (whichever is deeper). **The BLM is to be notified a minimum of 4 hours prior to the wellhead being cut off to verify that cement is to surface in the casing and all annuluses. Wellhead cut off shall commence within ten (10) calendar days of the well being plugged. If the cut off cannot be done by the 10<sup>th</sup> day, the BLM is to be contacted with justification to receive an extension for completing the cut off.** Upon the plugging and subsequent abandonment of wells that are located in lesser prairie-chicken habitat, the casings shall be cut-off at the base of the cellar or 3 feet below final restored ground level (whichever is deeper). The well bore shall then be covered with a metal plate at least ¼ inch thick and welded in place. A weep hole shall be left in the plate and/or casing.

NMOCD also requires the operator to notify NMOCD when this type of dry hole marker is used. This can be done on the subsequent report of abandonment which is submitted to the BLM after the well is plugged. State that a below ground cap was installed as required in the COA's from the BLM.

7. Subsequent Plugging Reporting: Within 30 days after plugging work is completed, file one original and three copies of the Subsequent Report of Abandonment, Form 3160-5 to BLM. The report should give in detail the manner in which the plugging work was carried out, the extent (by depths) of cement plugs placed, and the size and location (by depths) of casing left in the well. **Show date well was plugged.**

8. Trash: All trash, junk and other waste material shall be contained in trash cages or bins to prevent scattering and will be removed and deposited in an approved sanitary landfill. Burial on site is not permitted.

Following the submission and approval of the Subsequent Report of Abandonment, surface restoration will be required. See attached reclamation objectives.

**Timing Limitation Stipulation/ Condition of Approval for Lesser Prairie-Chicken:**

From March 1<sup>st</sup> through June 15<sup>th</sup> annually, abandonment activities will be allowed except between the hours from 3:00 am and 9:00 am. Normal vehicle use on existing roads will not be restricted