

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.
NMNM110829

6. If Indian, Allottee or Tribe Name

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

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

8. Well Name and No.

BLACK EAGLE FEDERAL WELL 1

2. Name of Operator
COG OPERATING, LLCContact: ABIGAIL MONTGOMERY
E-Mail: Abbym@bcmmandassociates.com

9. API Well No.

30-015-35126

3a. Address
600 W. ILLINOIS
MIDLAND, TX 797013b. Phone No. (include area code)
Ph: 432-580-716110. Field and Pool or Exploratory Area
MALAGA;MORROW, WEST (GAS)

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

Sec 17 T14S R28E 840FSL 1500FWL
32.212917 N Lat, 104.113441 W Lon

11. County or Parish, State

EDDY CO 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 recompleate 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 4 1/2" CIBP @ 11410'. Circulate hole w/ MLF. Pressure test csg. Spot 25 sx cmt @ 11410-11310'.

2. Spot 30 sx cmt @ 9550-9230'. WOC & Tag (7" Shoe & Wolfcamp)

3. Spot 35 sx cmt @ 6100-6000'. (Bone Spring) 6100-5940

4. Spot 25 sx cmt @ 3532-3432'. WOC & Tag (DV Tool) 3402

5. Spot 35 sx cmt @ 2510-2410' (Delaware) 2390 (Tag)

6. Spot 35 sx cmt @ 2156-2056'. WOC & Tag (9 5/8" Shoe) 2036

7. Spot 105 sx cmt @ 575-Surface.

8. Cut off well head, verify cmt to surface, weld on dry hole marker.

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

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

Electronic Submission #377062 verified by the BLM Well Information System
For COG OPERATING, LLC, sent to the Carlsbad
Committed to AFMSS for processing by DEBORAH MCKINNEY on 05/24/2017 ()

Name (Printed/Typed) ABIGAIL MONTGOMERY

Title AGENT

Signature (Electronic Submission)

Date 05/23/2017

NM OIL CONSERVATION
ARTESIA DISTRICT

JUL 10 2017

RECEIVED

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

Title

Eng

Date

7/6/17

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)

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

JTS

APL 30-015-35126

Black Eagle Fed. #1

- Sec 17-T24S-R28E
Eddy County, NM

NTS

Spud 11-12-2006

Completed: 4-6-2007 (Lwr Morrow)

70% CO₂ frac

6-19-2007 (Morrow)

8-7-2007 (Atoka)

8-22-2007 (Strawn)

GR 3072'

KB 3094'

32.2129173

-104.1134415

Susan Linat

Oct. 26, 2015

Concho

Cement:

Surface - 990 sx
Circulated 1 inch1st Intermediate - 900 sx
Circulated2nd Intermediate - 1740 sx
Did not circulate Per SundryLiner - 600 sx
Calc. TOC @ 8953'

TOC?

Formation Tops:

Del	2510
Bone Springs	6100'
Wolfcamp	9330'
Strawn	11,366'
Atoka	11,612'
Morrow	12,088'

Tubing: (Oct. 16 to 24, 2011)
Workover

fish in hole, thg. cut
@ 12,038' (10' above collar)
2 3/8" 4.7# L-80
last tag @ 12,039'

2 spf; U. Strawn

2 spf; L. Strawn

2 spf; Atoka

2 spf; Morrow

Note:

Engineer note shows fish
in hole, well file does
not indicate it.
TOF @ 12,038'

PBD 12,675'

TD 12,818'

40' Conductor

17 1/2" hole

13 3/8" 48# H-40, SIC
@ 525'

~12 1/4" hole

9 5/8" 40# 36# K-55
@ 2106' ST-1C

~8 3/4" hole

DV Tool @ 3,452'

7" 26# P-110, LTRC
@ 9,500'

~6 1/4" hole

11,460' - 11,476' (32 holes)

11,528' to 11,544' (32 holes)

11,650' to 11,660' (20 holes)

12,184' to 12,682' (176 holes)

4 1/2" B.S. P-110, LTRC
9253' to 12,818'

Rev. Dr. W. S. 85426

Black Eagle Seed "1

-Spec 17-1248-K28E
Caddy Mount NM

sqnd 11-12-2006

Completed: 4 Apr 2007 (with Murray)

709,002 1/166

6-17-2007 (Mon)

8-12-2007 (Atok)

8-22-2007 (Straw)

GR 4012'

KB 50911

22.21291113

104.1124415

7. Spot 105 sx cmt (@ 575-Surface.

6. Spot 35 sx cmt @ 2156-2056'. WOC & Tag (9 5/8" Shoe)

5. Spot 35 sz cmt (@ 2510-2410'. (Delaware)

4. Spot 25 sx cmt (@ 3532-3432', WOC & Tag (DV Tool))

3. Spot 35 ss cmt @ 6100-6000'. (Bone Spring)

2. Spot 30 sv cmt (a 9550-9230', WOC & Tag (7" Shoe & Wolfcamp)

1. Set 4 1/2" CIBP @ 11410'. Circulate hole w/ MLF. Pressure test csg.
Spot 25 sx cmt @ 11410-11310'.

40' conductor

1. *What is the purpose of the study?*
 2. *What are the research objectives?*
 3. *What is the research design?*
 4. *What are the variables?*
 5. *What are the hypotheses?*
 6. *What are the methods?*
 7. *What are the results?*
 8. *What are the conclusions?*
 9. *What are the implications?*
 10. *What are the limitations?*
 11. *What are the future directions?*
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18 5/8, 78, 11:30, 8K.
20 25

Chrysomelidae

1962 10-30-31 10-30-31
21-21 10-30-31

807

W 100108 245820

7th Feb, 1960.

1000

10.760' - 11.760' (10.760' - 11.760')

1. H₅576' to 1.584' (29' above)

116.30' to 116.40' (10 holes)

1945

11. $\beta_1, \beta_2, \dots, \beta_n$ are the roots of the equation $x^n - 1 = 0$.
 12. $\beta_1, \beta_2, \dots, \beta_n$ are the roots of the equation $x^n - 1 = 0$.

16.6 22,075
15 16,818'

**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**

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 90th day provide this office, prior to the 90th 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. Dry Hole Marker: 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 10th day, the BLM is to be contacted with justification to receive an extension for completing the cut off.**

The well bore shall then be capped with a 4-inch pipe, 10-feet in length, 4 feet above ground and embedded in cement, unless otherwise noted in COA (requirements will be attached). The following information shall be permanently inscribed on the dry hole marker: well name and number, name of the operator, lease serial number, surveyed location (quarter-quarter section, section, township and range or other authorized survey designation acceptable to the authorized officer such as metes and bounds).

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.