Form 3160-5
(June 2015)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018

HOBBS OCD
JAN 16 2019
RECEIVED

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.
NMNM14164

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.
FASCINATOR FEDERAL COM 703H

2. Name of Operator
COG OPERATING LLC
Contact: MAYTE X REYES
E-Mail: mreyes1@concho.com

9. API Well No.
30-025-45113

3a. Address
2208 WEST MAIN STREET
ARTESIA, NM 88210

3b. Phone No. (include area code)
Ph: 575-748-6945

10. Field and Pool or Exploratory Area
WILDCAT; WOLFBONE

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Sec 30 T24S R35E NENW 210FNL 1550FWL

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
	☐ 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.

COG Operating LLC, respectfully requests approval for the following changes to the originally approved APD.

Surface:
Drill 14.75? hole to 1,170? HCL80 BTC
Set 10.75? 45.5# ~~L80 BTC~~ casing @ 1,170?
Cement in one stage to surface:
Lead: 550 sx of Class C + 6% gel (13.5 ppg / 1.75 cuft/ sx)
Tail: 200 sx of Class C + 1% CaCl2 (14.8 ppg/ 1.35 cuft/sx)

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

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

Electronic Submission #448385 verified by the BLM Well Information System
For COG OPERATING LLC, sent to the Hobbs
Committed to AFMSS for processing by MUSTAFA HAQUE on 12/20/2018 ()

Name *(Printed/Typed)* MAYTE X REYES — Title REGULATORY ANALYST

Signature (Electronic Submission) — Date 12/19/2018

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By Mustafa Haque — Title Pet. Eng. — Date 12-20-2018

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 ****

PERFORMANCE DATA

TMK UP ULTRA™ SF **5.500 in** **23.00 lbs/ft** **P110 CY**
Technical Data Sheet

Tubular Parameters

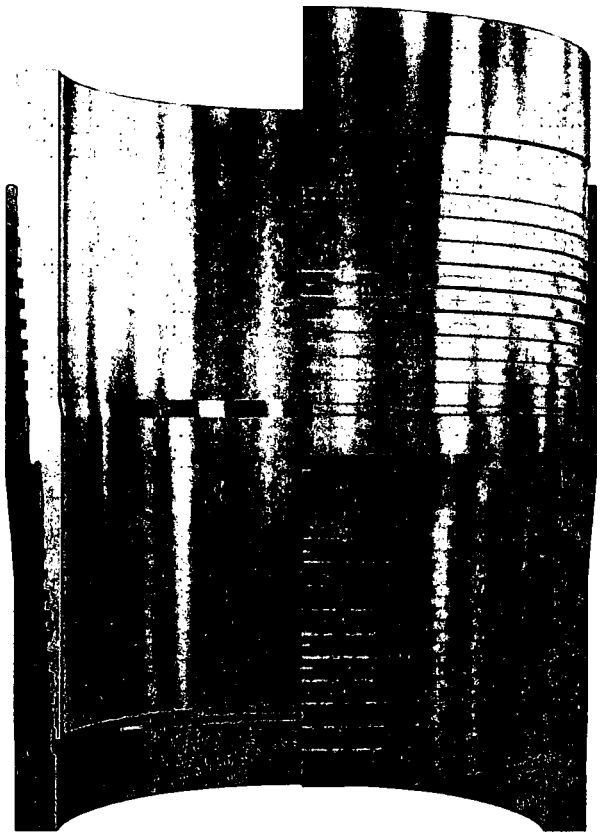
Size	5.500	in	Minimum Yield	110,000	psi
Nominal Weight	23.00	lbs/ft	Minimum Tensile	125,000	psi
Grade	P110 CY		Yield Load	729,000	lbs
PE Weight	22.54	lbs/ft	Tensile Load	828,000	lbs
Wall Thickness	0.415	in	Min. Internal Yield Pressure	14,530	psi
Nominal ID	4.670	in	Collapse Pressure	14,540	psi
Drift Diameter	4.545	in			
Nom. Pipe Body Area	6.630	in²			

Connection Parameters

Connection OD	5.696	in
Connection ID	4.626	in
Make-Up Loss	5.441	in
Critical Section Area	6.110	in²
Tension Efficiency	91.9	%
Compression Efficiency	91.9	%
Yield Load In Tension	670,000	lbs
Min. Internal Yield Pressure	14,530	psi
Collapse Pressure	14,540	psi
Uniaxial Bending	84	°/ 100 ft

Make-Up Torques

Min. Make-Up Torque	12,800	ft-lbs
Opt. Make-Up Torque	14,100	ft-lbs
Max. Make-Up Torque	15,500	ft-lbs
Operating Torque	16,405	ft-lbs
Yield Torque	19,300	ft-lbs



Printed on: November-13-2018

TMK IPSCO

Additional data for EC transaction #448385 that would not fit on the form

32. Additional remarks, continued

Intermediate
5M BOP System
Drill 9.875? hole to 11,950?
Set 7.625? 29.7# HCL-80 BTC @ 11,950?
Cement in two stages to surface with DV tool and ECP @ 5,460?
First Stage:
Lead: 700 sx of Halliburton NeoCem (11.0 ppg / 2.81 cuft/ sx)
Tail: 300 sx of Class H (16.4 ppg/ 1.10 cuft/sx)
Second Stage:
Lead: 900 sx of Halliburton NeoCem (11.0 ppg / 2.81 cuft/ sx)
Tail: 150 sx of Class C + 2% CaCl2 (14.8 ppg/ 1.35 cuft/sx)

Production
10M BOP System (5M Annular variance approved with original APD)
Drill 6.75? hole to 22,585?
Set 5.5? 23# P110 CY TMK UP Ultra SF (spec sheet attached) @ 22,585?
Cement in one stage to surface
Lead: 550 sx of 35:36:6 Class C (12.7 ppg / 1.98 cuft/ sx)
Tail: 2700 sx of 50:50:2 Class H Blend (14.4 ppg / 1.25 cuft/sx)

Haque, Mustafa <mhaque@blm.gov>

FW: [External] EC Document Submitted - Fascinator Federal Com 703H

Colby Gannon <cgannon@concho.com> Thu, Dec 20, 2018 at 2:39 PM
To: "Haque, Mustafa" <mhaque@blm.gov>
Cc: Mayte Reyes <MReyes1@concho.com>

Haque,

Yes, it should be 10 3/4" 45# HCL-80 BTC

Thanks,

Colby Gannon | Drilling Engineer II | Drilling

COG Operating LLC | cgannon@concho.com

O: (432) 253-4556 | C: (806) 787-9061

CONCHO

From: Mayte Reyes [mailto:MReyes1@concho.com]
Sent: Thursday, December 20, 2018 3:33 PM
To: Colby Gannon
Subject: FW: FW: [External] EC Document Submitted - Fascinator Federal Com 703H

FYI.

From: Haque, Mustafa <mhaque@blm.gov>
Sent: Thursday, December 20, 2018 2:31 PM
To: Mayte Reyes <MReyes1@concho.com>
Subject: Re: FW: [External] EC Document Submitted - Fascinator Federal Com 703H

[Quoted text hidden]

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	COG OPERATING LLC.
LEASE NO.:	NMNM014164
WELL NAME & NO.:	703H-FASCINATOR FEDERAL COM
SURFACE HOLE FOOTAGE:	210'/N & 1550'/W
BOTTOM HOLE FOOTAGE	200'/S & 1510'/W
LOCATION:	Section. 30.,T24S., R.35E., NMP
COUNTY:	LEA County, New Mexico

Potash	◉ None	○ Secretary	○ R-111-P
Cave/Karst Potential	◉ Low	○ Medium	○ High
Variance	○ None	◉ Flex Hose	○ Other
Wellhead	◉ Conventional	○ Multibowl	
Other	☐4 String Area	☐Capitan Reef	☐WIPP

All previous COAs still apply, except for the following:

A. CASING

1. The **10 3/4** inch surface casing shall be set at approximately **1170** feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface.

    a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.

    b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)

    c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.

    d. If cement falls back, remedial cementing will be done prior to drilling out that string.

2. The minimum required fill of cement behind the **9 5/8** inch intermediate casing is:

Operator has proposed a DV tool at a depth of **5460'**, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.

b. Second stage above DV tool:

- Cement to surface. If cement does not circulate, contact the appropriate BLM office.

3. The minimum required fill of cement behind the **5 1/2** inch production casing is:

- Cement should tie-back at least **200** feet into previous casing string. Operator shall provide method of verification.

MHH 12202018

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

a. Spudding well (minimum of 24 hours)
b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
c. BOPE tests (minimum of 4 hours)

☒ Chaves and Roosevelt Counties
Call the Roswell Field Office, 2909 West Second St., Roswell NM 88201.
During office hours call (575) 627-0272.
After office hours call (575)

☒ Eddy County
Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822

☒ Lea County
Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 393-3612

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log.

3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements.

4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.

5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.

7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.