

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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.

Lease Serial No.
NMNM123535

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.
BROT HELM FEDERAL COM 601H

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

9. API Well No.
30-025-46065-00-X1

3a. Address
ONE CONCHO CENTER 600 W ILLINOIS AVENUE
MIDLAND, TX 79701-4287
3b. Phone No. (include area code)
Ph: 575-748-6945

10. Field and Pool or Exploratory Area
RED HILLS-BONE SPRINGS

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 35 T24S R34E NENE 250FNL 407FEL
32.180561 N Lat, 103.433655 W Lon

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 | | | |
|--|---|---|--|---|
| <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 checked="" type="checkbox"/> Other Change to Original A PD |
| | <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 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 respectfully requests approval for the following changes to the originally approved APD.

Wellhead
The operator request to use multi-bowl wellhead assembly.

Surface Unchanged - 13.375? 54.5# J55 BTC has been set to 1116? and cement circulated to surface.

Description of Design forward

Intermediate
5M BOP System

14. I hereby certify that the foregoing is true and correct.
Electronic Submission #484374 verified by the BLM Well Information System
For COG OPERATING LLC, sent to the Hobbs
Committed to AFMSS for processing by PRISCILLA PEREZ on 09/24/2019 (19PP3240SE)

| | |
|------------------------------------|---------------------------------|
| Name (Printed/Typed) MAYTE X REYES | Title SENIOR REGULATORY ANALYST |
| Signature (Electronic Submission) | Date 09/23/2019 |

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

| | | |
|---|---------------------------------|------------------------|
| Approved By <u>DYLAN ROSSMANGO</u> | Title <u>PETROLEUM ENGINEER</u> | Date <u>09/27/2019</u> |
| <p>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.</p> | | Office <u>Hobbs</u> |

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 ****

NO BLM RECORD RECEIVED
 OCT 02 2019

PERFORMANCE DATA

TMK UP ULTRA™ SF
Technical Data Sheet

5.500 in

23.00 lbs/ft

P110 CY

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 | in ² | | | |

Connection Parameters

| | | |
|------------------------------|---------|-----------------|
| Connection OD | 5.696 | in |
| Connection ID | 4.626 | in |
| Make-Up Loss | 5.441 | in |
| Critical Section Area | 6.110 | in ² |
| 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

NOTE:

The content of this Technical Data Sheet is for general information only and does not guarantee performance or imply fitness for a particular purpose, which only a competent drilling professional can determine considering the specific installation and operation parameters. Information that is printed or downloaded is no longer controlled by TMK IPSCO and might not be the latest information. Anyone using the information herein does so at their own risk. To verify that you have the latest TMK IPSCO technical information, please contact TMK IPSCO Technical Sales toll-free at 1-888-258-2000.



**EC484374 – Change to Original APD
CONDITIONS OF APPROVAL**

| | |
|-----------------------------|---------------------------------------|
| OPERATOR'S NAME: | COG Operating LLC |
| LEASE NO.: | NMNM123535 |
| WELL NAME & NO.: | Brot Helm Federal Com 601H |
| LOCATION: | Section 35, T 24S, R 34E, NENE |
| COUNTY: | Lea County, New Mexico |

1. Operator has proposed a DV tool, 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 the second stage.
 - b. Second stage via DV tool: Cement to surface. If cement does not circulate, contact the appropriate BLM office.

All previous Conditions of Approval still apply.

9/27/2019 DR