FORM APPROVED Form 3160 -3 OMB No. 1004-0137 Expires October 31, 2014 (March 2012) UNITED STATES Lease Serial No DEPARTMENT OF THE INTERIOR NMNM119277 BUREAU OF LAND MANAGEMENT 6. If Indian, Allotee or Tribe Name APPLICATION FOR PERMIT TO DRILL OR REENTER 7. If Unit or CA Agreement, Name and No DRILL REENTER la. Type of work: 8. Lease Name and Well No. Oil Well Gas Well Other ✓ Single Zone Multiple Zone COLUMBUS FEDERAL COM 22H lb. Type of Well: 9. API Well No. Name of Operator COG OPERATING LLC 30-025-436 3b. Phone No. (include area code) 3a. Address 10. Field and Pool, or Explorator 600 West Illinois Ave Midland TX 79701 (432)683-7443 WILDCAT / WOLFCAMP 11. Sec., T. R. M. or Blk. and Survey or Area Location of Well (Report location clearly and in accordance with any State requirements.*) At surface NENE / 210 FNL / 1300 FEL / LAT 32.093687 / LONG -103.555855 SEC 34 / T25S / R33E / NMP At proposed prod. zone SESE / 200 FSL / 990 FEL / LAT 32,065794 / LONG -103,552719 12. County or Parish 13. State 14. Distance in miles and direction from nearest town or post office* NM 20 miles 15. Distance from proposed* 17. Spacing Unit dedicated to this well 16. No. of acres in lease location to nearest 210 feet property or lease line, ft. (Also to nearest drig. unit line, if any) 480 320 19. Proposed Depth 20. BLM/BIA Bond No. on file 18. Distance from proposed location* to nearest well, drilling, completed, 1010 feet applied for, on this lease, ft. 12411 feet / 22455 feet FED: NMB000215 MAR 1 5 2017 Elevations (Show whether DF, KDB, RT, GL, etc.) 22 Approximate date work will start* 23. Estimated duration 3325 feet 12/02/2016 37 days 24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form: 1. Well plat certified by a registered surveyor. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). 2. A Drilling Plan. 3. A Surface Use Plan (if the location is on National Forest System Lands, the Operator certification SUPO must be filed with the appropriate Forest Service Office) Such other site specific information and/or plans as may be required by the 25. Signature Name (Printed/Typed) Date Mayte Reyes / Ph: (575)748-6945 11/03/2016 (Electronic Submission) Title Regulatory Analyst Approved by (Signature) Name (Printed/Typed) Cody Layton / Ph: (575)234-5959 03/09/2017 (Electronic Submission) Office Title **HOBBS** Supervisor Multiple Resources Application approval 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. Conditions of approval, if any, are attached. 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.

(Continued on page 2)

*(Instructions on page 2)



Operator Name: COG OPERATING LLC

Well Name: COLUMBUS FEDERAL COM

Well Number: 22H

String Type: SURFACE

Other String Type:

Hole Size: 13.5

Top setting depth MD: 0

Top setting depth TVD: 0

Top setting depth MSL: -9086

Bottom setting depth MD: 1025

Bottom setting depth TVD: 1025 1095

Bottom setting depth MSL: -10111 Calculated casing length MD: 1025

Casing Size: 10.75

Grade: \$\(-80^{\circ} \) - \(\forall \)

Other Size

Other Grade:

Weight: 45.5

Joint Type: STC

Other Joint Type:

Condition: NEW

Inspection Document:

Standard: API

Spec Document:

Tapered String?: N

Tapered String Spec:

Safety Factors

Collapse Design Safety Factor: 5.14

Burst Design Safety Factor: 0.86

Joint Tensile Design Safety Factor type: DRY

Joint Tensile Design Safety Factor: 14.7

Body Tensile Design Safety Factor type: DRY

Body Tensile Design Safety Factor: 14.7

Casing Design Assumptions and Worksheet(s):

COG Columbus 22H_Casing Prog_02-14-2017.pdf