| une 2015) E SUNDRY | UNITED STATES EPARTMENT OF THE INT BUREAU OF LAND MANAGE NOTICES AND REPORT | erior) ad Fileld Ment SONWEES (OL) (| FOI OMI Expire 5. Lease Serial No NMNM13622 | | |
|--|--|--|---|--------------------------------------|--|
| Form 3160-5 (June 2015) UNITED STATES DEPARTMENT OF THE INTERIOR OF THE INTERIOR BUREAU OF LAND MANAGEMENT SUNDRY NOTICES AND REPORTS ONWELLS Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals. | | | 6. If Indian, Allott | 6. If Indian, Allottee or Tribe Name | |
| SUBMIT IN | TRIPLICATE - Other instruc | tions on page 2 | 7. If Unit or CA/A | greement, Name and/or No. | |
| 1. Type of Well Soll Well Gas Well O | ther | | 8. Well Name and PITCHBLEND | No. E FED 19-30 038H | |
| 2. Name of Operator Contact: MAYTE X REYES COG OPERATING LLC E-Mail: mreyes1@concho.com | | 9. API Well No. 30-025-4565 | 9. API Well No. 30-025-45653-00-X1 | | |
| 3a. Address ONE CONCHO CENTER 600 W ILLINOIS AVENUE MIDLAND, TX 79701-4287 3b. Phone No. (include area code) Ph: 575-748-6945 | | | | or Exploratory Area ONE SPRING | |
| 4. Location of Well (Footage, Sec., | T., R., M., or Survey Description) | | 11. County or Pari | sh, State | |
| Sec 19 T25S R35E 450FNL 3 32.121914 N Lat, 103.40038 | | | LEA COUNT | Y, NM | |
| 12. CHECK THE A | PPROPRIATE BOX(ES) TO | INDICATE NATURE O | F NOTICE, REPORT, OR C | THER DATA | |
| TYPE OF SUBMISSION | | TYPE O | F ACTION | | |
| Notice of Intent | 🗖 Acidize | Deepen | Production (Start/Resume) | 🗖 Water Shut-Off | |
| Nonce of Intell | Alter Casing | Hydraulic Fracturing | Reclamation | Well Integrity | |
| Subsequent Report | Casing Repair | New Construction | Recomplete | 🖸 Other | |
| Final Abandonment Notice | Change Plans | Plug and Abandon | Temporarily Abandon | Change to Original PD | |
| - | Convert to Injection | Plug Back | U Water Disposal | PD | |
| testing has been completed. Final A determined that the site is ready for the COG Operating respectfully readers. | final inspection. | | | ed and the operator has | |
| Casing Changes: See attached. | | | | | |
| Formation Change: From: Doggie Draw; Delawar To: Wildcat; Bone Spring C102 attached. | re 97779 | | Ň | | |
| other previous (| | and still apply | 1. DR | | |
| I hereby certify that the foregoing is Con | Electronic Submission #4990 | RATING LLC, sent to the H | lobbs | | |
| Name(Printed/Typed) MAYTE X | REYES | Title SENIOF | REGULATORY ANALYST | | |
| Signature (Electronic S | Submission) | Date 01/14/20 |)20 | | |
| | THIS SPACE FOR I | FEDERAL OR STATE | | | |
| Approved By_DYLAN_ROSSMAN | GO | TitlePETROI F | | Date 01/16/202 | |
| | | warrant or | | | |
| tify that the applicant holds legal or equich would entitle the applicant to condu | uitable title to those rights in the subj | office Hobbs | | | |

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Pitchblende Fed Com 19-30 38H

Casing Interval Weight Interval Hole Size Csg. Size Grade Conn. BOP From (lbs) То 14.5" 10.75" 45.5 Surface 0 1010 J55 BTC 9.875" 7.625" BTC 0 8500 29.7 L80 HC Intermediate Tech Lock Flush 5M P-110 8300* 8.75" 11850 7.625" 29.7 HC Joint 5.5" 6.75" 0 11650 P110 BTC 23 10M w/ 5M Production 6.75" 5" annular** 11650 20,075 P110 BTC 18

Casing and BOP

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The Tech Lock Flush Joint by BTC cross over will be 200' above where the bit size changes from 9.875" to 8.75"

5M annular variance requested; 5M annular will be tested to 5000psi

Cement:

Surface

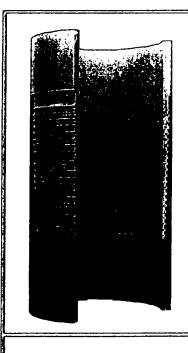
Lead: 300 sx 13.5#; 1.75 cuft/sx; 9.21 H20 Gal/sx; Class C + 4% Gel Tail: 300 sx 14.8#; 1.34 cuft/sx; 6.34 H20 Gal/sx; Class C + 2% CaCl2

Intermediate

Lead: 875 sx 10.3#; 3.6 cuft/sx; 21.87 H20 Gal/sx; NeoCem Tail: 150 sx 16.4#; 1.1 cuft/sx; 6.0 H20 Gal/sx; Class H

Production

Lead: 650 sx; 12.7#; 1.97 cuft/sx; 10.8 H20 Gal/sx; 35:65:6 H Blend Tail: 985 sx; 14.5#; 1.22 cuft.sx; 5.56 H20 Gal/sx; 50:50:2 H Blend



TEC-LOCK FJ

7.625" 29.7 LB/FT (.375" Wall)

P110 HC

Pipe Body Data

| Nominal OD: | 7.625 | in |
|-------------------------|-------------|----------|
| Nominal Wall: | 0.375 | in |
| Nominal Weight: | 29.70 | lb/ft |
| Plain End Weight: | 29.22 | lb/ft |
| Material Grade: | P110 HC | |
| Mill/Specification: | BORUSAN MAN | INESMANN |
| Yield Strength: | 110,000 | psi |
| Tensile Strength: | 125,000 | psi |
| Nominal ID: | 6.875 | in |
| API Drift Diameter: | 6.750 | in |
| Special Drift Diameter: | NA | in |
| RBW: | 87.5% | |
| Body Yield: | 940,000 | ibf |
| Burst: | 9,460 | psi |
| Collapse: | 7,050 | psi |

Connection Data

| Standard OD: | 7.625 | in |
|------------------------------|----------------------|---------|
| Pin Bored ID: | ₽ 0.8 75> | in |
| Critical Section Area: | 6.299 | in² |
| Tensile Efficiency: | 70.0%32 | |
| Compressive Efficiency: | 61.9% | |
| Longitudinal Yield Strength: | 16581000 PM | lbf |
| Compressive Limit: | 581,860 | lbf . |
| Internal Pressure Rating: | V1570 | psi |
| External Pressure Rating: | 1080 | psi |
| Maximum Bend: | 26 | °/100ft |
| | | _ |

Operational Data

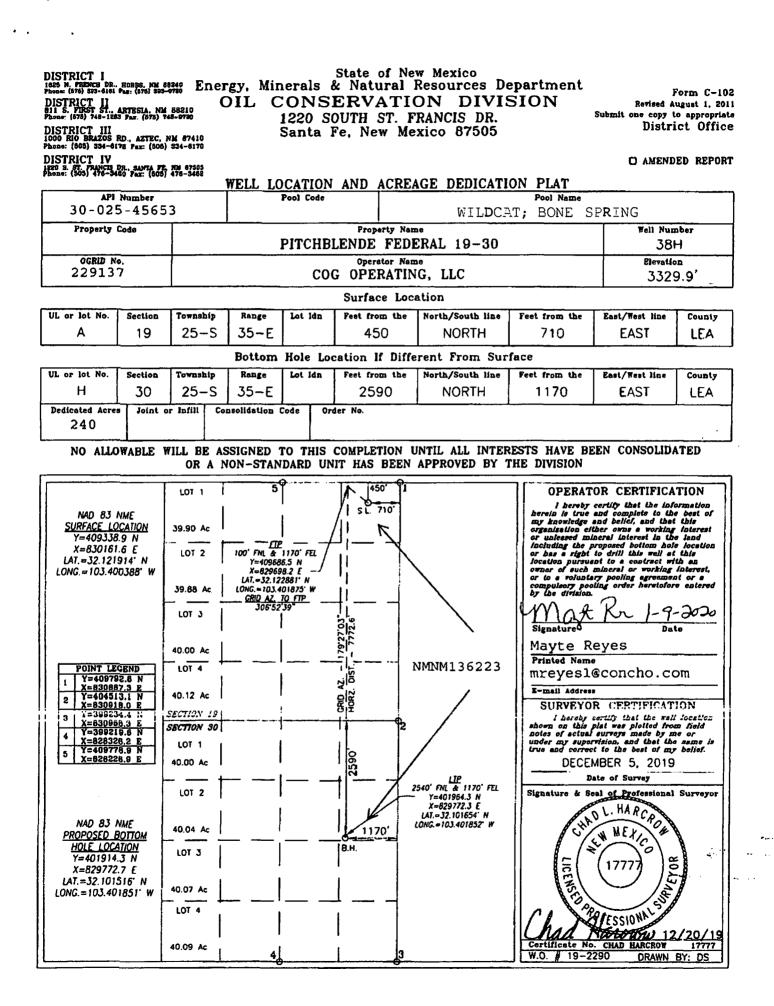
| Minimum Makeup Torque: | 3,600 | ft*lbf | |
|------------------------|--------|--------|--|
| Optimum Makeup Torque: | 6,500 | ft*ibf | |
| Maximum Makeup Torque: | 9,400 | ft*lbf | |
| Minimum Yield: | 14,500 | ft*lbf | |
| Makeup Loss: | 5.97 | in | |
| | | | |

Notes Preliminary DataSheet

The Connection ratings are structural







PECOS DISTRICT DRILLING OPERATIONS CONDITIONS OF APPROVAL EC499079

| OPERATOR'S NAME: | COG Operating LLC |
|----------------------------|--------------------------------|
| LEASE NO.: | NMNM136223 |
| WELL NAME & NO.: | Pitchblende Fed 19-30 38H |
| SURFACE HOLE FOOTAGE: | 450' FNL & 710' FEL |
| BOTTOM HOLE FOOTAGE | 2590' FNL & 1170' FEL |
| LOCATION: | Section 19, T 25S, R 35E, NMPM |
| COUNTY: | Lea County, New Mexico |

| H2S | • Yes | ∩ No | |
|----------------------|---------------------------|------------------|---------------|
| Potash | None | C Secretary | ← R-111-P |
| Cave/Karst Potential | د Low | | ← High |
| Variance | • None | Flex Hose | C Other |
| Wellhead | Conventional | Multibowl | C Both |
| Other | □ □ 4 String Area | Capitan Reef | □ WIPP |
| Other | Fluid Filled | ☐ Cement Squeeze | |
| Special Requirements | | ГСОМ | F Unit |

A. CASING

- 1. The 10-3/4" surface casing shall be set at approximately 1010' (a minimum of 25' into the Rustler Anhydrite and above the salt) and cemented to surface.
 - a. If cement does not circulate to 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 6 hours after pumping cement, ideally between 8-10 hours after.
 - b. WOC time for a primary cement job will be a minimum of <u>8 hours</u> or <u>500 psi</u> compressive strength, whichever is greater. This is to include the lead cement.
 - c. If cement falls back, remedial cementing will be done prior to drilling out the shoe.
 - d. WOC time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 psi compressive strength, whichever is greater.
- 2. The **7-5/8**" intermediate casing shall be cemented to surface.
 - a. If cement does not circulate to surface, see A.1.a, c & d.
 - b. This casing must be kept at least 1/3 full at all times in order to meet BLM collapse requirements.
- 3. The 5-1/2" and 5" production casing shall be cemented with at least 200' tie-back into the previous casing. Operator shall provide method of verification.

B. PRESSURE CONTROL

- 1. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.
- Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the intermediate casing shoe shall be 10,000 (10M) psi. Variance approved to use a 5M annular. When conducting a BOP/BOPE testhe annular shall be tested to 70% of the working pressure.
- 3. Required safety valves, with appropriate wrenches and subs for the drill string being utilized, will be in the open position and accessible on the rig floor.

DR 1/16/2020

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