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

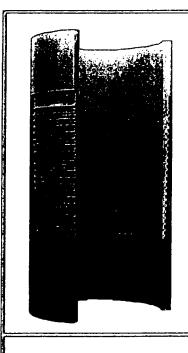
Lead: 300 sx 13.5#; 1.75 cuft/sx; 9.21 H20 Gal/sx; Class C + 4% Gel Tail: 300 sx 14.8#; 1.34 cuft/sx; 6.34 H20 Gal/sx; Class C + 2% CaCl2

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
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Operational Data

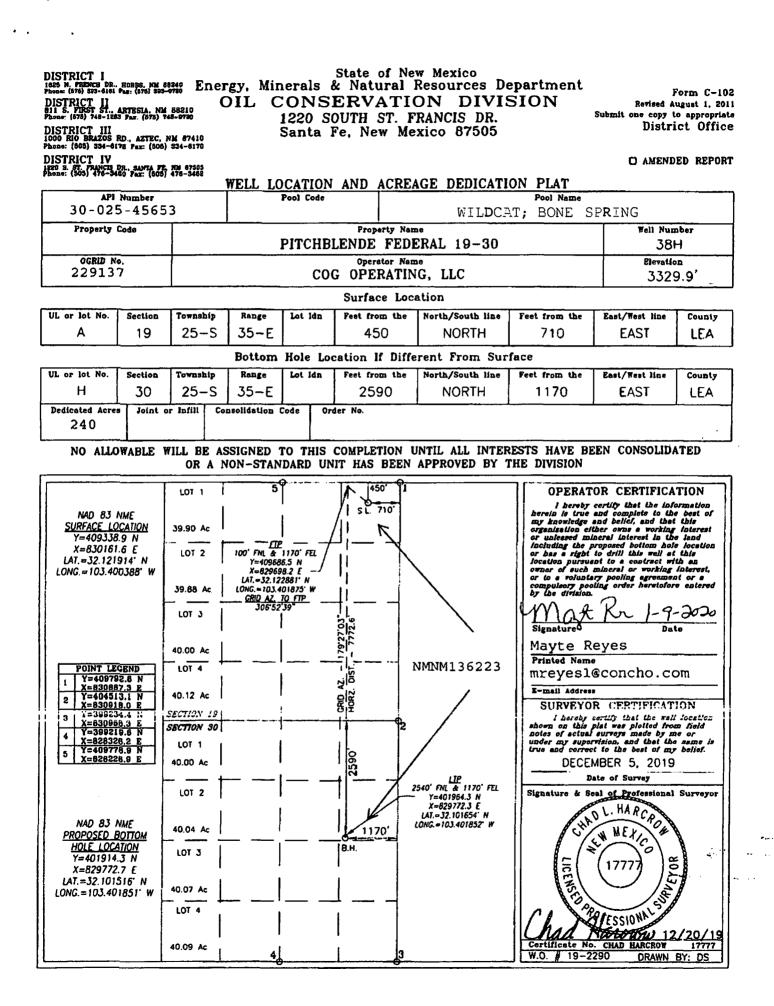
Minimum Makeup Torque:	3,600	ft*lbf	
Optimum Makeup Torque:	6,500	ft*ibf	
Maximum Makeup Torque:	9,400	ft*lbf	
Minimum Yield:	14,500	ft*lbf	
Makeup Loss:	5.97	in	

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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