

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.

HOBBS OCD
DEC 23 2019
RECEIVED

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. NMLC063798
2. Name of Operator BC OPERATING INCORPORATED		6. If Indian, Allottee or Tribe Name
Contact: THOMAS A WOLFMUELLER E-Mail: twolfmueller@bcoperating.com		7. If Unit or CA/Agreement, Name and/or No.
3a. Address 3303 VETERANS AIRPARK LANE SUITE 6101 MIDLAND, TX 79710	3b. Phone No. (include area code) Ph: 432-253-7742	8. Well Name and No. BROADSIDE 13 FED COM W 1H
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 12 T24S R33E SESW 350FSL 2330FWL 32.225803 N Lat, 103.527069 W Lon		9. API Well No. 30-025-46517-00-X1
		10. Field and Pool or Exploratory Area WC-025 G09 S243310P-UP WOLFCMP
		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 checked="" 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 type="checkbox"/> Other
	<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.

BC Operating respectfully requests a change in production casing from 5.5in, 23#, P110, T-L Wedge, to 5.5in, 20#, P110, T-L Wedge.
Changing this casing will improve our well design.
Changing from 23# to 20# still passes all safety factors:
Collapse SF 1.83
Burst SF 1.86
Tension SF 1.83
Tension Body 1.21

Comparison 23# to 20#
Internal Yield(PSI)

Carlsbad
OCD Hobbs

14. I hereby certify that the foregoing is true and correct. Electronic Submission #492894 verified by the BLM Well Information System For BC OPERATING INCORPORATED, sent to the Hobbs Committed to AFMSS for processing by PRISCILLA PEREZ on 11/20/2019 (20PP0406SE)	
Name (Printed/Typed) THOMAS A WOLFMUELLER	Title DRILLING MANAGER
Signature (Electronic Submission)	Date 11/19/2019

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By <u>JONG VO</u>	Title <u>PETROLEUM ENGINEER</u>	Date <u>12/04/2019</u>
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 Hobbs

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 ****

Kas

Additional data for EC transaction #492894 that would not fit on the form

32. Additional remarks, continued

23#-14,520
20#-12,640

External Pressure Rating(PSI)
23#-15,310
20#-12,200

Collapse(PSI)
23#-15,310
20#-12,200

Tension(kips)
23#-710
20#-622

Thanks for your consideration,
Thomas



TEC-LOCK WEDGE

5.500" 20.00 LB/FT (.361" Wall)
USS P110 HC

Pipe Body Data

Nominal OD:	5.500	in
Nominal Wall:	.361	in
Nominal Weight:	20.00	lb/ft
Plain End Weight:	19.83	lb/ft
Material Grade:	USS P110 HC	
Mill/Specification:	USS	
Yield Strength:	110,000	psi
Tensile Strength:	140,000	psi
Nominal ID:	4.778	in
API Drift Diameter:	4.653	in
Special Drift Diameter:	None	in
RBW:	87.5 %	
Body Yield:	641,000	lbf
Burst:	12,640	psi
Collapse:	12,200	psi

Connection Data

Standard OD:	5.920	in
Pin Bored ID:	4.778	in
Critical Section Area:	5.65574	in ²
Tensile Efficiency:	97.0 %	
Compressive Efficiency:	100.0 %	
Longitudinal Yield Strength:	622,000	lbf
Compressive Limit:	641,000	lbf
Internal Pressure Rating:	12,640	psi
External Pressure Rating:	12,200	psi
Maximum Bend:	89	°/100

Operational Data

Minimum Makeup Torque:	15,000	ft*lbf
Optimum Makeup Torque:	18,750	ft*lbf
Maximum Makeup Torque:	38,100	ft*lbf
Minimum Yield:	42,300	ft*lbf
Makeup Loss:	5.97	in

Notes

Operational Torque is equivalent to the Maximum Make-Up Torque.

