

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTCarlsbad Field Office
OCD ArtesiaFORM 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.***SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. NMNM107384
2. Name of Operator MURCHISON OIL & GAS LLC Contact: CINDY COTTRELL E-Mail: ccottrell@jdmii.com		6. If Indian, Allottee or Tribe Name Office
3a. Address LEGACY TOWER ONE 7250 DALLAS PKY, STE 1400 PLANO, TX 75024-5002	3b. Phone No. (include area code) Ph: 972.931.0700	7. If Unit or CA/Agreement, Name and/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 30 T24S R29E NENE 745FNL 250FEL 32.193718 N Lat, 104.015999 W Lon		8. Well Name and No. ROCK RIDGE FEDERAL WCB 5H
		9. API Well No. 30-015-45872-00-X1
		10. Field and Pool or Exploratory Area PURPLE SAGE-WOLFCAMP (GAS)
		11. County or Parish, State EDDY 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
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Change to Original A
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	PD

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 recomple 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.

Murchison Oil and Gas, LLC respectfully requests permission to change setting depth of the intermediate 9 5/8 inch P110HC 43.5lb casing to 9500 feet. Safety factor for burst is 14.71, collapse is 1.21, and tension is 9.84.

We also respectfully requests permission to change the percent excess of cement on the intermediate first stage 3000 to 9500 feet from 80% excess to 30% excess.

Cementing operations were recently finished on our WFC XY intermediate which is at 9000 feet and we determined that there is only 17.956% washout on the first stage of intermediate cement.

Percent washout was calculated by using amount of cement pumped minus cement to surface divided by annulus capacity.

The new cement program for first stage intermediate would be as follows:

Lead 870 sxs, yield 2.83, density 11.5

Tail 175 sxs, yield 1.18, density 15.6

RECEIVED

JUN 25 2019

DISTRICT II-ARTESIA O.C.D.

All previous Conditions of Approval still apply.

14. I hereby certify that the foregoing is true and correct.	
Electronic Submission #466057 verified by the BLM Well Information System For MURCHISON OIL & GAS LLC, sent to the Carlsbad Committed to AFMSS for processing by PRISCILLA PEREZ on 05/22/2019 (19PP2217SE)	
Name (Printed/Typed) LUKE PUMPHREY	Title OPERATIONS ENGINEER
Signature (Electronic Submission)	Date 05/20/2019

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By <u>DYLAN ROSSMANGO</u>	Title <u>PETROLEUM ENGINEER</u>	Date <u>05/28/2019</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 <u>Carlsbad</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 **

RUP 7-5-19