Form 3160-5 (June 2015)

UNITED STATES DEPARTMENT OF THE INTERIOR AIISDAO FIELD BUREAU OF LAND MANAGEMENT SUNDRY NOTICES AND REPORTS ON WELLS OF LAND MANAGEMENT SUNDRY NOTICES AND REPORTS ON WELLS Artesias Serial No. SUNDRY NOTICES AND REPORTS ON WELLS Artesias Serial No. SUNDRY NOTICES AND REPORTS ON WELLS OF LAND MANAGEMENT Artesias Serial No. SUNDRY NOTICES AND REPORTS ON WELLS OF LAND MANAGEMENT Artesias Serial No. SUNDRY NOTICES AND REPORTS ON WELLS OF LAND MANAGEMENT

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, Allottee	or Tribe Name
SUBMIT IN TRIPLICATE - Other instructions on page 2					7. If Unit or CA/Agre	eement, Name and/or No.
1. Type of Well					8. Well Name and No ROCK RIDGE FI	EDERAL BSS 4H
					9. API Well No.	
MURCHISON OIL & GAS INC E-Mail: ccottrell@jdmii.com					30-015-45730-	
3a. Address LEGACY TOWER ONE 7250 DALLAS PKY, STE 1400 PLANO, TX 75024 3b. Phone No. (include area code) Ph: 972.931.0700					10. Field and Pool or Exploratory Area WILLOW LAKE-BONE SPRING	
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)					11. County or Parish,	State
Sec 30 T24S R29E NENE 350FNL 300FEL 32.194809 N Lat, 104.016159 W Lon					EDDY COUNT	Y, NM
12. CHECK THE A	PPROPRIATE BOX(ES)	TO INDICAT	E NATURE OF	NOTICE,	REPORT, OR OT	HER DATA
TYPE OF SUBMISSION	TYPE OF ACTION					
Notice of Intent	☑ Notice of Intent ☐ Alter Casing ☐ Hydraulic Fracturing ☐		☐ Production (Start/Resume)		■ Water Shut-Off	
_			☐ Reclama	ation	☐ Well Integrity	
☐ Subsequent Report	☐ Casing Repair	_	New Construction Recor			Other
☐ Final Abandonment Notice	_ , -			arily Abandon		
13. Describe Proposed or Completed Op	☐ Convert to Injection	☐ Plug	Back Water Disposal		<u>*</u>	
testing has been completed. Final Al determined that the site is ready for f Murchison Oil and Gas, LLC reast side of the lease road fro 4 wells on Pad 2 (Rock Ridge Tank Battery (CTB) located to	inal inspection. espectfully requests permi im 3 wells on Pad 1 (Rock Federal WCB 5H, WCXY	ssion to insta Ridge Federa 6H, BSS 7H a	l buried flowline I WCB 1H, WC) and WCB 8H) to	s along the (Y 2H, BSS the Rock R	4H) and lidge Central	RECEIVED .
From Pad 1 there will be a tot	al of five flowlines buried to	ogether in a tr	ench that is 1.03	33.42	•	JUL 2 8 2019
feet long by 30 feet wide. Three 3 inch high density polyethylene lines operating at 750 psi or less for produced fluids and gas. One 3 inch high density polyethylene gas lift line operating at 750 psi or less. One 3 inch low pressure polyethylene compressor dump line operating at 75 psi less.					or DIST	RICTII-ARTESIAO.C.D
From Pad 2 there will be a tot	al of six flowlines buried to	gether in a tre	nch that is 553.	8 feet	Accepted for Area	cord - NMOCD
roved Cok. 07/02/		-NM-POE	D-2019-E	931-CX	Stipulation	s attached.
14. I hereby certify that the foregoing is	Electronic Submission #4	ON OIL & GAS	NC, sent to the	Carlsbad	•	
Name (Printed/Typed) GREG BC	DANS		Title PRODU	CTION MAN	NAGER	
· · · · · · · · · · · · · · · · · · ·						
Signature (Electronic S	THIS SPACE FO		Date 04/15/20		·	
	THIS SPACE FO	K FEDERAL	OKSIAIE	FFICE US		
_Approved By _	Wyt		Title # M	<u> </u>	*/0	07/02/2014 Date
Conditions of approval, if any are attache certify that the applicant holds legal or equivalent would entitle the applicant to conductive the applicant to conduct the applicant the applicant to conduct the applicant to conduct the applicant the applicant the applicant to conduct the applicant the applicant the applicant to conduct the applicant the appli	uitable title to those rights in the	not warrant or subject lease	Office	0	,	·
Title 18 U.S.C. Section 1001 and Title 43 States any false, fictitious or fraudulent	U.S.C. Section 1212, make it a c statements or representations as t	rime for any personal	on knowingly and v	willfully to ma	ke to any department or	r agency of the United

Additional data for EC transaction #461483 that would not fit on the form

32. Additional remarks, continued

long by 30 feet wide. Four 3 inch high density polyethylene lines operating at 750 psi or less for produced fluids and gas. One 3 inch high density polyethylene gas lift line operating at 750 psi or less. One 3 inch low pressure polyethylene compressor dump line operating at 75 psi or less.

The gas sales line will be located at the CTB. The production facility diagram is attached.

Revisions to Operator-Submitted EC Data for Sundry Notice #461483

Operator Submitted

Sundry Type: **NEWCON**

NÕI

NMNM107384 Lease:

Agreement:

Operator:

MURCHISON OIL & GAS, LLC 7250 DALLAS PARKWAY, SUITE 1400 PLANO, TX 75024 Ph: 972-931-0700

Admin Contact:

CINDY COTTRELL REGULATORY COORDINATOR

E-Mail: ccottrell@jdmii.com

Ph: 972-931-0700 Ext: 113

Tech Contact:

GREG BOANS PRODUCTION MANAGER E-Mail: gboans@jdmii.com

Ph: 575-628-3932

Location:

State: County:

EDDY

Field/Pool:

PIERCE CROSSING

Well/Facility:

ROCK RIDGE FEDERAL BSS 4H Sec 30 T24S R29E Mer NMP NENE 350FNL 300FEL

BLM Revised (AFMSS)

NEWCON

NOI

NMNM107384

MURCHISON OIL & GAS INC LEGACY TOWER ONE 7250 DALLAS PKY, STE 1400 PLANO, TX 75024 Ph: 972.931.0700 Fx: 972.931.0701

CINDY COTTRELL REGULATORY COORDINATOR

E-Mail: ccottrell@jdmii.com

Ph: 972.931.0700

GREG BOANS

PRODUCTION MANAGER

E-Mail: gboans@jdmii.com

Ph: 575-628-3932

NM EDDY 1

WILLOW LAKE-BONE SPRING

ROCK RIDGE FEDERAL BSS 4H Sec 30 T24S R29E NENE 350FNL 300FEL 32.194809 N Lat, 104.016159 W Lon

BLM LEASE NUMBER: NMNM107384

COMPANY NAME: Murchison Oil and Gas Inc.

ASSOCIATED WELL NAME: Rock Ridge Federal BSS 4H

BURIED PIPELINE STIPULATIONS

A copy of the application (Grant, APD, or Sundry Notice) and attachments, including conditions of approval, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

- 1. The Holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
- 2. The Holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.
- 3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C.6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.
- 4. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil or other pollutant, wherever found, shall be the responsibility of holder, regardless of fault. Upon failure of holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve holder of any responsibility as provided herein.

6. The pipeline will be buried with a minimum cover of <u>36</u> inches between the top of the pipe and ground level.					
7. The maximum allowable disturbance for construction in this right-of-way will be $\underline{30}$ feet:					
Blading of vegetation within the right-of-way will be allowed: maximum width of blading operations will not exceed $\underline{30}$ feet. The trench is included in this area. (Blading is defined as the complete removal of brush and ground vegetation.)					
• Clearing of brush species within the right-of-way will be allowed: maximum width of clearing operations will not exceed 30 feet. The trench and bladed area are included in this area. (Clearing is defined as the removal of brush while leaving ground vegetation (grasses, weeds, etc.) intact. Clearing is best accomplished by holding the blade 4 to 6 inches above the ground surface.)					
• The remaining area of the right-of-way (if any) shall only be disturbed by compressing the vegetation. (Compressing can be caused by vehicle tires, placement of equipment, etc.)					
8. The holder shall stockpile an adequate amount of topsoil where blading is allowed. The topsoil to be stripped is approximately6 inches in depth. The topsoil will be segregated from other spoil piles from trench construction. The topsoil will be evenly distributed over the bladed area for the preparation of seeding.					
9. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.					
10. Vegetation, soil, and rocks left as a result of construction or maintenance activity will be randomly scattered on this right-of-way and will not be left in rows, piles, or berms, unless otherwise approved by the Authorized Officer. The entire right-of-way shall be recontoured to match the surrounding landscape. The backfilled soil shall be compacted and a 6 inch berm will be left over the ditch line to allow for settling back to grade.					
11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.					
12. The holder will reseed all disturbed areas. Seeding will be done according to the attached seeding requirements, using the following seed mix.					
() seed mixture 1 () seed mixture 3 (x) seed mixture 2 () seed mixture 4 () seed mixture 2/LPC () Aplomado Falcon Mixture					

5. All construction and maintenance activity will be confined to the authorized right-of-way.

- 13. All above-ground structures not subject to safety requirements shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be color which simulates "Standard Environmental Colors" **Shale Green**, Munsell Soil Color No. 5Y 4/2.
- 14. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. All signs and information thereon will be posted in a permanent, conspicuous manner, and will be maintained in a legible condition for the life of the pipeline.
- 15. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder before maintenance begins. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway. As determined necessary during the life of the pipeline, the Authorized Officer may ask the holder to construct temporary deterrence structures.
- 16. Any cultural and/or paleontological resources (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the Authorized Officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the Authorized Officer after consulting with the holder.
- 17. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes associated roads, pipeline corridor and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.
- 18. <u>Escape Ramps</u> The operator will construct and maintain pipeline/utility trenches [that are not otherwise fenced, screened, or netted] to prevent livestock, wildlife; and humans from becoming entrapped. At a minimum, the operator will construct and maintain escape ramps, ladders, or other methods of avian and terrestrial wildlife escape in the trenches according to the following criteria:
 - a. Any trench left open for eight (8) hours or less is not required to have escape ramps; however, before the trench is backfilled, the contractor/operator shall inspect the trench for wildlife, remove all trapped wildlife, and release them at least 100 yards from the trench.
 - b. For trenches left open for eight (8) hours or more, earthen escape ramps (built at no more than a 30 degree slope and spaced no more than 500 feet apart) shall be placed in the trench.

19. Special Stipulations:

Cave/Karst

- The BLM, Carlsbad Field Office, will be informed immediately if any subsurface drainage channels, passages, or voids are intersected by trenching, and no pipe will be laid in the trench at that point until clearance has been issued by the Authorized Officer.
- If a void is encountered alignments may be rerouted to avoid the karst feature and lessen; the potential of subsidence or collapse of karst features, buildup of toxic or combustible gas, or other possible impacts to cave and karst resources from the buried pipeline.
- Special restoration stipulations or realignment may be required at such intersections, if any.
- A leak detection plan <u>will be submitted to the BLM Carlsbad Field Office for approval</u> prior to pipeline installation. The method could incorporate gauges to detect pressure drops, situating values and lines so they can be visually inspected periodically or installing electronic sensors to alarm when a leak is present. The leak detection plan will incorporate an automatic shut off system that will be installed for proposed pipelines to minimize the effects of an undesirable event.
- Regular monitoring is required to quickly identify leaks for their immediate and proper treatment.
- All spills or leaks will be reported to the BLM immediately for their immediate and proper treatment.

Hydrology

- When crossing ephemeral drainages the pipeline(s) will be buried to a minimum depth of 48 inches from the top of pipe to ground level. Erosion control methods such as gabions and/or rock aprons should be placed on both up and downstream sides of the pipeline crossing. In addition, curled (weed free) wood/straw fiber wattles/logs and/or silt fences should be placed on the downstream side for sediment control during construction and maintained until soils and vegetation have stabilized. Water bars should be placed within the ROW to divert and dissipate surface runoff. A pipeline access road is not permitted to cross these ephemeral drainages. Traffic should be diverted to a preexisting route. Additional seeding may be required in floodplains and drainages to restore energy dissipating vegetation.
- Prior to pipeline installation/construction a leak detection plan will be developed. The method(s) could incorporate gauges to detect pressure drops, situating valves and lines so they can be visually inspected periodically or installing electronic sensors to alarm when a leak is present. The leak detection plan will incorporate an automatic shut off system that will be installed for proposed pipelines to minimize the effects of an undesirable event.

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be no primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law (s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

Species	lb/acre
	2
Sand dropseed (Sporobolus cryptandrus)	1.0
Sand love grass (Eragrostis trichodes)	1.0
Plains bristlegrass (Setaria macrostachya)	2.0

^{*}Pounds of pure live seed:

Pounds of seed x percent purity x percent germination = pounds pure live seed