RECEIVED District I 1625 N. FBychQCP; D. P. NOberding an District N	State of New Mexico t 1:29 pm Aug 39 2015 and Natural Resources
811 S. First St., Artesia, NM 88210	Department
District III	Oil Conservation Division
1000 Rio Brazos Road, Aztec, NM 87410 <u>District IV</u>	1220 South St. Francis Dr.
1220 S. St. Francis Dr., Santa Fe, NM 87505	Santa Fe, NM 87505

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office. For permanent pits submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

<u>Pit, Below-Grade Tank, or</u> Proposed Alternative Method Permit or Closure Plan Application

Type of action: Below grade tank registration

Permit of a pit or proposed alternative method

Closure of a pit, below-grade tank, or proposed alternative method

] Modification to an existing permit/or registration

Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank,

or proposed alternative method

Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative request

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.

Operator: <u>Murchison Oil & Gas, Inc.</u>	OGRID #:15363				
	Address: 7250 Dallas Parkway, Suite 1400, Plano, TX 75024				
Facility or well name: Jackson Unit #27H					
API Number: 30-025-41847 OCD Permit Number:	API Number: 30-025-41847 OCD Permit Number: P1-06576				
U/L or Qtr/Qtr <u>M</u> Section <u>21</u> Township <u>24S</u> Rat	nge <u>33E</u> County: <u>Lea</u>				
Center of Proposed Design: Latitude <u>32°11'48.48"N</u> Longitude	103°34'56.23"W NAD: □1927 ⊠ 1983				
Surface Owner: 🗌 Federal 🖾 State 🗌 Private 🗌 Tribal Trust or Indian Allotment					
	PPROVED OCD; Dr. Oberding at 10:35 am, Jul 17, 2015				
Permanent Emergency Cavitation P&A Multi-Well Fluid Management Low Chloride Drilling Fluid yes no Lined Unlined Liner type: Thickness 20 mil LLDPE HDPE PVC Other					
String-Reinforced					
Liner Seams: 🛛 Welded 🗌 Factory 🗌 Other Vol	ume: 23.712 bbl Dimensions: I 150 x W 170 x D 10 ft				
	Inic. <u>25,712</u> 001 Dimensions. <u>D</u> <u>150</u> X W <u>170</u> X <u>D</u> <u>101</u>				
3. Below-grade tank: Subsection I of 19.15.17.11 NMAC					
Volume:bbl Type of fluid:					
Tank Construction material:					
Secondary containment with leak detection Visible sidewalls, liner, 6-inch	lift and automatic overflow shut-off				
□ Visible sidewalls and liner □ Visible sidewalls only □ Other					
Liner type: Thicknessmil HDPE PVC Other					
4.					
Alternative Method:					
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.					
5.					
Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, tempora					
Chain link, six feet in height, two strands of barbed wire at top (<i>Required if located within 1000 feet of a permanent residence, school, hospital, institution or church</i>)					
Four foot height, four strands of barbed wire evenly spaced between one and four feet					
Alternate. Please specify					

Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)

Screen Netting Other_

6.

Monthly inspections (If netting or screening is not physically feasible)

Signs: Subsection C of 19.15.17.11 NMAC

12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers

Signed in compliance with 19.15.16.8 NMAC

Variances and Exceptions:

Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.

Please check a box if one or more of the following is requested, if not leave blank:

Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.

Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

9. <u>Siting Criteria (regarding permitting)</u> : 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.			
General siting			
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank	☐ Yes ☐ No ⊠ NA		
Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells See Figures 1 & 2	☐ Yes ⊠ No ☐ NA		
 Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (Does not apply to below grade tanks) See Figure 5 Written confirmation or verification from the municipality; Written approval obtained from the municipality 	🗌 Yes 🖾 No		
 Within the area overlying a subsurface mine. (Does not apply to below grade tanks) See Figure 7 Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division 	🗌 Yes 🛛 No		
 Within an unstable area. (Does not apply to below grade tanks) See Figure 8 Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	🗌 Yes 🛛 No		
Within a 100-year floodplain. (Does not apply to below grade tanks) See Figure 9 - FEMA map	🗌 Yes 🛛 No		
Below Grade Tanks			
 Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No		
 Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No		
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)			
 Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.) Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No		
 Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	🗌 Yes 🗌 No		
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application.	🗌 Yes 🗌 No		

NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site

Within 100 feet of a wetland.		
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	🗌 Yes 🗌 No	
Temporary Pit Non-low chloride drilling fluid		
 Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). See Figure 3 Topographic map; Visual inspection (certification) of the proposed site 		
 Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image. See Figure 4 		
 Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site See Figures 1 & 2 		
 Within 300 feet of a wetland. See Figure 6 US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🛛 No	
Permanent Pit or Multi-Well Fluid Management Pit		
 Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No	
 Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	🗌 Yes 🗌 No	
 Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No	
 Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No	
10. Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. □ Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC ○ Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC ○ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC ○ Design Plan - based upon the appropriate requirements of 19.15.17.10 NMAC ○ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC ○ Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC ○ Previously Approved Design (attach copy of design) API Number: <u>30-025-41787, Mogi 9 St Com #11H</u> or Permit Number: <u>P1-06562 approved 10/6/14</u>		
Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.		
I reviously Approved Design (attach copy of design) Ar i number OF Fermit number:		

	12. Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.11 NMAC		
	 Nuisance or Hazardous Odors, including H₂S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC 		
13. Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan. Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Alternative Proposed Closure Method: Waste Excavation and Removal Waste Removal Waste Removal (Closed-loop systems only) On-site Closure Method (Only for temporary pits and closed-loop systems) In-place Burial On-site Trench Burial Alternative Closure Method Onesite Trench Burial			
14. Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. □ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC □ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC □ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) □ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC □ Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC □ Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC			
^{15.} Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. Please refer to 19.15.17.10 NMAC for guidance.			
	Ground water is less than 25 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	□ Yes ⊠ No □ NA	
	 Ground water is between 25-50 feet below the bottom of the buried waste NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells 	☐ Yes ⊠ No ☐ NA	
	 Ground water is more than 100 feet below the bottom of the buried waste. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells 	⊠ Yes □ No □ NA	
	 Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🖾 No	
	 Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	🗌 Yes 🛛 No	
	 Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application. NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site 	🗌 Yes 🛛 No	
	Written confirmation or verification from the municipality; Written approval obtained from the municipality	🗌 Yes 🛛 No	
	Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	🗌 Yes 🛛 No	
ĺ	Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance		

 adopted pursuant to NMSA 1978, Section 3-27-3, as amended. Written confirmation or verification from the municipality; Written approval obtained from the municipality 	🗌 Yes 🖾 No		
 Within the area overlying a subsurface mine. Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division 	🗌 Yes 🛛 No		
 Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological 			
Society; Topographic map	🗌 Yes 🛛 No		
Within a 100-year floodplain. - FEMA map	🗌 Yes 🛛 No		
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.			
17. Operator Application Certification:			
I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and believed and be			
Name (Print): Greg Boans Title: Production Superintendent	<u>t</u>		
Signature: Date: Date: June 30, 2015			
Digitation Date Date			
e-mail address: gboans@jdmii.com Telephone: (575) 361-4962			
e-mail address: <u>gboans@jdmii.com</u> Telephone: <u>(575) 361-4962</u> 18. OCD Approval: Plan (only) OCD Conditions (see attachment)			
e-mail address: <u>gboans@jdmii.com</u> Telephone: <u>(575) 361-4962</u> <u>B.</u> <u>OCD Approva</u> l: Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) 07/12			
e-mail address: <u>gboans@jdmii.com</u> Telephone: <u>(575) 361-4962</u> 18. OCD Approval: Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature:			
e-mail address:gboans@jdmii.comTelephone:575) 361-4962 18. OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature:	7/2015 the closure report.		
e-mail address:gboans@jdmii.comTelephone:(575) 361-4962 	7/2015 the closure report.		
e-mail address:gboans@jdmii.com Telephone:(575) 361-4962 18. OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature:	7/2015 the closure report. complete this		

22. Operator Closure Certification:

I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.		
Name (Print):	Title:	
Signature:	Date:	
e-mail address:	Telephone:	