| District I 1625 N. French Dr., Hobbs, NM 88240 HOBBS OCD District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 RECEIVED | State of New Mexico ergy Minerals and Natural Resources Department Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 | Form C-144 Revised June 6, 2013 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> ve Method Permit or Closure F | Plan Application |
| Closure of a p Modification Closure plan of or proposed alternative method | ank registration t or proposed alternative method bit, below-grade tank, or proposed alternati to an existing permit/or registration only submitted for an existing permitted or cation (Form C-144) per individual pit, below | r non-permitted pit, below-grade tank, |
| Please be advised that approval of this request does not relieve environment. Nor does approval relieve the operator of its resp | the operator of liability should operations result i | n pollution of surface water, ground water or the |
| i. Operator: <u>Murchison Oil & Gas, Inc.</u> Address: <u>I100 Mira Vista Blvd., Plano, TX</u> 75 | | |
| Facility or well name: <u>Mogi 9 State Com 3H</u> | | |
| API Number:30-025-41070 | | |
| U/L or Qtr/Qtr <u>N</u> Section <u>9</u> Townsl | | |
| Center of Proposed Design: Latitude 32°13'31.638" | | |
| Surface Owner: 🔲 Federal 🖾 State 🗌 Private 🗋 Tribal | | |
| ^{2.} <u>Pit:</u> Subsection F, G or J of 19.15.17.11 NMAC Temporary: Drilling Workover Permanent Emergency Cavitation P&A Lined Unlined Liner type: Thickness 20 String-Reinforced Liner Seams: Welded Factory Other | mil 🛛 LLDPE 🗋 HDPE 🗌 PVC 🗌 Othe | |
| 3. Below-grade tank: Subsection 1 of 19.15.17.11 NM Volume: bbl. Type of fluid: | | |
| Volume:bbl Type of fluid: Tank Construction material: | | |
| Secondary containment with leak detection Visible sidewalls and liner Visible sidewalls only Liner type: Thicknessmil | ble sidewalls, liner, 6-inch lift and automatic ov | |
| 4. | | |
| Alternative Method: | | |
| Submittal of an exception request is required. Exception | s must be submitted to the Santa Fe Environme | ental Bureau office for consideration of approval. |
| 5. Fencing: Subsection D of 19.15.17.11 NMAC (Applies to Description 19.15.17.11 NMAC (Applie) 19.15.17.11 NMAC (| rc at top (Required if located within 1000 feet | |
| Alternate. Please specify | | |
| | | |

Page 1 of 6

NOV 1 9 2014

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

Screen Netting Other_

6,

8.

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 | | | |
| 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 | | |

| | · | | |
|--|-----------------------|--|--|
| Within 100 fect of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site | | | |
| 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 | | | |
| 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 | | | |
| 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 | | | |
| Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site | | | |
| 10. Temporary Pits, Emergency Pits, and Bélow-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 N Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the do 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 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19. and 19.15.17.13 NMAC | cuments are 9 NMAC | | |
| Previously Approved Design (attach copy of design) API Number: or Permit Number: | | | |
| II. 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 do attached. Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC A, List of wells with approved application for permit to drill associated with the pit. Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19 and 19.15.17.13 NMAC Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.10 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC | ٢ | | |
| Previously Approved Design (attach copy of design) API Number: or Permit Number: | | | |
| | | | |

•

| and dd. Hydrogeologic Report - based upon the requirements of Pangapit (1) of Subsection B of 19.15.17.10 NMAC Chanted Conference Constructions - based upon the appropriate requirements of 19.15.17.10 NMAC Chanted Conference Constructions - based upon the appropriate requirements of 19.15.17.11 NMAC Chanted Conference Constructions and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Chanted Concept - based constructions - based upon the appropriate requirements of 19.15.17.11 NMAC Chanted Concept - based construction and Installation Phantel Conference Construction and Installation Phantel Conference Construction and Installation Phantel Conference Conference Construction and Installation Phantel Conference Conf | 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 o | locuments are | |
|--|---|--------------------|--|
| Certified Engineering Design Phase - 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 Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Defaulty Control/Quality Assume Construction and Installation Phan Operating and Maintertaber OPAn - based upon the appropriate requirements of 19.15.17.11 NMAC Defaulty Control/Quality Assume Construction and Installation Phan Defaulty Control/Quality Assume Construction and Installation Phan Defaulty Control/Quality Assume Construction Phan Defaulty Control/Quality Assume Construction Phan Defaulty Control/Quality Assume Construction Phan Defaulty Construction Phane - based upon the appropriate requirements of 19.15.17.9 NMAC and 19.15.17.13 NMAC Intergence Response Phan Construct Phane - based Defaulty Construction Phane - based upon the appropriate requirements of 19.15.17.9 NMAC and 19.15.17.13 NMAC Introductions Phane - based upon the appropriate requirements of 19.15.17.13 NMAC Introductions Phane - based upon the appropriate requirements of 19.15.17.13 NMAC Introductions Construct Phane Checklist: (19.15.17.13 NMAC) Protocols and Proceeduction and Removal Defaulty Construct Phane Checklist: (19.15.17.13 NMAC) Protocols and Proc | 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 | | |
| Inter Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC Overling and Maintenance Phan - based upon the appropriate requirements of 19.15.17.12 NMAC Freecboard and Overroping Prevention Phan - based upon the appropriate requirements of 19.15.17.12 NMAC Buisance or Hazardous Odors, including HS, Prevention Phan Berregreeve Response Phan - based upon the appropriate requirements of 19.15.17.13 NMAC Proposed Cleaver: Proposed Cleaver: 101 Field Waste Stream Characterization Monitoring and Inspection Phan Exercise Response Phan Cleaver Phan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC Instructions: Previous Phan Cleaver Phan Below-grade Tank Matternative Proposed Cleaver: Proposed Cleaver: Below-grade Tank Maternative Proposed Cleaver Method Waste Removal (Clease-kop systems only) Do-site Cleaver Method Devise Cleaver Method Waste Removal Maternative Cleaver Method Ower Phane Cleaver Method Maternative Cleaver Method Nate Recover all Clease-kop systems only Maternative Cleaver Method Ower for the phane Cleave Systems only Maternati | 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 | | |
| Imagency Response Plan Imagency Response P | | | |
| □ 01 Field Wase Stream Characterization □ 01 Field Wase Stream Characterization □ Cosume Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC Instructions: Plense 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 □ Multi-well Fluid Management Pit □ Alternative Proposed Closure Method: □ Wase Encourd (Closure Method (Out) for temporary pits and closed-loop systems) □ In-there Burnel □ On-site Tench Burial □ Non-bite Closure Method | □ Nuisance or Hazardous Odors, including H ₂ S, Prevention Plan | | |
| Erosion Control Plan < | Oil Field Waste Stream Characterization | | |
| It Proposed Closure: 19.15.17.13 NMAC Instruction: Period Closure (19.15) Period Closure (19.15) Period Closure (19.15) Type: Drilling Workover Cavitation P&A Permanent Pit Below-grade Tank Multi-well Fluid Management Pit Atternative Waste Excavation and Removal Workover Closure Method Waste Removal (Closed-loop systems only) Monistic Closure Method On-site Tenench Burial On-site Tenench Burial Polocod Closure Plan. Closure Method Maste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Protocod and Procedures - based upon the appropriate requirements of Subsection N of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (Or liquid, of Milling Iluids 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 Provided below. Repuests regarding changes to certain siting criteria requires to 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 Pri | Erosion Control Plan | | |
| Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan. Type: Diffing Workover Emergency: Cavitation PRA Permanent Pit Below-grade Tank Multi-well Fluid Management Pit Atternative Waste Removal Waste Removal (Closed-loop systems only) Moste Removal | 13. | | |
| Alternative Maste Excavation and Removal Proposed Closure Method: Waste Excavation and Removal Waste Removal (Closed-loop systems only) On-site Closure Method (Only for temporary pits and closed-loop systems) Maste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the documer plan. Plane infidence by a clock marks in the box, that the documents are attached. Protocols and Procedures - 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 cutings) Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Revegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 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. Plane refer to 19.15.17.10 NMAC for guidance. 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. Plane T1.13 NMAC [State Designeer - iWATERS database search; USGS; Data obtained from nearby wells Ground water is between 25-0 feet below the bottom of the buried waste. | | | |
| Proposed Closure Method: Waste Excavation and Removal Waste Removal (Closed-hoop systems only) On-site Closure Method (Only for temporary pits and closed-loop systems) Maste Excavation and Removal Closure Method (Only for temporary pits and closed-loop systems) Implace Burial Maste Excavation and Removal Closure Method Implace Burial Maste 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 Subsection C of 19.15.17.13 NMAC Disposal Facility Name and Permin Number (for liquids, drilling fluids and drill cuttings) Solis 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 Instructions: Each siting criteria requires does only: 19.15.17.10 NMAC Instructions: Each siting criteria requirements of Subsection H of 19.15.17.13 NMAC Instructions: Each siting criteria requirements of Subsection H of 19.15.17.13 NMAC Instructions: Each siting criteria requirements of Subsection H of 19.15.7.20 NMAC Instructions: Each siting criteria requirements of Subsection H of 19.15.17.13 NMAC Instructions: Each siting criteria requir | Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Multi-well Fl | uid Management Pit | |
| Consiste Closure Method (Only for temporary pits and closed-loop systems) | Proposed Closure Method: 🔲 Waste Excavation and Removal | | |
| It. Alternative Closure Method It. 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. Image: 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 Stite Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Iterative Closure methods only): 19.15.17.10 NMAC Stite Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Iterative Closure methods only): 19.15.17.10 NMAC Iterative Closure methods only): 19.15.17.10 NMAC Iterative Closure methods only): 19.15.17.00 NMAC Iterative admenstration of compliance in the closure plan. Recommendations of acceptable source material are provided below. Requests regarding changes to ectain siting criteria require justifications and/or demonstrations of equivalency. Please refer to 19.15.17.10 NMAC Isos 7.10 NMAC (or guidance. | On-site Closure Method (Only for temporary pits and closed-loop systems) | | |
| Waste Excervation 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. Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling liudis and drill cutuings) Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vogetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Its. 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 before. 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. | | | |
| 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 Instructions: Each siting criteria requirements of compliance in the closure plan. Recommendations of acceptable source material are provided before. 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 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 Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa I ke (measured from the ordinary high-water mark). • Visual inspection (certification) of the proposed site; Acrial photo; Staellite image 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; Acrial photo; Staellite image Within 300 feet of no right fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application. • Vi | Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be of | attached to the | |
| □ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) □ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) □ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) □ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) □ Disposal Facility Name and Permit Number (for liquids, drilling fluids, drilling | Protocols and Procedures - based upon the appropriate requirements 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. Yes ⊠ No NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells Ground water is more than 100 feet bolow the bottom of the buried waste. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells MA 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 Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Yes ⊠ No NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site Within 300 feet from a permanent residence, school, hospital, institution, or struct in existence at the time of initial application. Visual inspection (certification) of | Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) | | |
| 15. Siting Criteria (regarding on-site closure methods onty): 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. | Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC | | |
| 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. | | | |
| 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. 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 - NA Ground water is between 25-50 fect below the bottom of the buried waste - Yes X No - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells - NA Ground water is more than 100 feet below the bottom of the buried waste. - Yes X No - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells Xes Xes Xes Yes Xes Xes Ground water is more than 100 feet below the bottom of the buried waste. - Yes Xes Xes No - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells Xes Xes No Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa Yes Xes No ake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site Yes Xes No | Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC | | |
| Ground water is less than 25 feet below the bottom of the buried waste. □ Yes ⊠ No □ Yes ⊠ No □ NA □ Yes ⊠ No □ Yes ⊠ No □ NA □ Yes ⊠ No □ NA | provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. F | | |
| - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells □ NA Ground water is between 25-50 fect below the bottom of the buried waste □ Yes ⊠ No - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells □ 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 □ NA Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa □ Yes ⊠ No - 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. - Yes ⊠ No - Visual inspection (certification) of the proposed site; Acrial 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 □ Yes ⊠ No - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site □ Yes ⊠ No | | | |
| - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells □ 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 □ 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). □ Yes □ No - 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. □ 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. □ Yes □ No - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site; Acrial 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. □ Yes □ No • NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site | | | |
| - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells □ NA Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa □ Yes ⊠ No 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. □ Yes ⊠ No - Visual inspection (certification) of the proposed site; Acrial 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 □ Yes ⊠ No 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 | | | |
| lake (measured from the ordinary high-water mark). - 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. - Yes ⊠ No - Visual inspection (certification) of the proposed site; Acrial 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. - No - 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 | | | |
| - Visual inspection (certification) of the proposed site; Acrial photo; Satellite image 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 (latabase; Visual inspection (certification) of the proposed sitc Written confirmation or verification from the municipality; Written approval obtained from the municipality | lake (measured from the ordinary high-water mark). | | |
| at the time of initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site Written confirmation or verification from the municipality; Written approval obtained from the municipality Yes X | | 🔲 Yes 🛛 No | |
| Written confirmation or verification from the municipality; Written approval obtained from the municipality | at the time of initial application. | | |
| | | 🗌 Yes 🖾 No | |
| US Fish and Wildlife Wetland Identification man: Topographic man: Visual inspection (certification) of the proposed site | | | |
| Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance \Box Yes \boxtimes No | | | |

| adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality | | | |
|---|--------------------------|--|--|
| Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division | | | |
| 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 | | |
| | | | |
| 16. On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17. Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC 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 19.15.17.13 NMAC Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cann Soil Cover Design - 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 | 11 NMAC 15.17.11 NMAC | | |
| 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 beli | ief. | | |
| Name (Print): Greg Boans Title: Production Superintenden | it | | |
| Signature: Date: <u>August 14, 2013</u> | | | |
| c-mail address:gboans@jdmii.comTelephone:(575) 361-4962 | | | |
| 18. OCD Approval: X Permit Application (indificiting closure page 17) Closure Plan (only) OCD Conditions (see attachment) | | | |
| Approval Data: \$/2 | 2/13 | | |
| | · · | | |
| Title: OCD Permit Number: I = 0.5 4.5 7 | | | |
| 19. Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed. Closure Completion Date: August 6, 2014 | | | |
| 20. | | | |
| Closure Method: Waste Excavation and Removal On-Site Closure Method Alternative Closure Method Waste Removal (Closed-le If different from approved plan, please explain. | oop systems only) | | |
| 21. <u>Closure Report Attachment Checklist</u> : Instructions: Each of the following items must be attached to the closure report. Please in markin the box, that the documents are attached. | ndicate, by a check | | |
| Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure for private land only) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable) Maste Material Sampling Analytical Results (required for on-site closure) Waste Material Sampling Analytical Results (required for on-site closure) Disposal Facility Name and Permit Number Na (on-site closure) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation) to follow On-site Closure Location: Latitude NaD: [192 | | | |

~

Operator Closure Certification:

22.

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): | Kristin Pope | \mathcal{D} | | Title: Ag | ent for Murchison Oil and Gas, Inc. |
|----------------|----------------------------|---------------|---|------------|-------------------------------------|
| Signature: | Knistin | Tope | | Date: | November 19, 2014 |
| e-mail address | kristin@rthicksconsult.com | - | • | Telephone: | (575) 302-6755 |