Form C-144 Revised October 11, 2022

State of New Mexico
Energy Minerals and Natural Resources
Department
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Pit, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application Below grade tank registration Type of action: Permit of a pit or proposed alternative method Closure of a pit, below-grade tank, or proposed alternative method Pit Number 2 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: __LOGOS OPERATING____ _____ OGRID #: ____289408__ Address: 2010 Afton Place, Farmington, NM 87401_____ Facility or well name: KNOTT 001___ API Number: ____30-045-22624_______ OCD Permit Number: _______U/L or Qtr/Qtr __M__ Section __30__ Township __27N____Range __12W___ County: _San Juan____ Center of Proposed Design: Latitude 36.54115 Longitude 108.15815 NAD83 Surface Owner: Federal State Private Tribal Trust or Indian Allotment \mathbf{x} **Pit:** Subsection F, G or J of 19.15.17.11 NMAC Temporary: Drilling Workover ☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A ☐ Multi-Well Fluid Management Low Chloride Drilling Fluid ☐ yes ☐ no ☐ Lined ☐ Unlined Liner type: Thickness _____mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other __ ☐ String-Reinforced Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D 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: Thickness ____ **Alternative Method:** Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks) Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital,

Four foot height, four strands of barbed wire evenly spaced between one and four feet

institution or church)

Alternate. Please specify_

| 6. | |
|---|---------------|
| Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks) | |
| Screen Netting Other | |
| Monthly inspections (If netting or screening is not physically feasible) | |
| 7. Simon Subartin Caf 10 15 17 11 NIMAC | |
| 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 | |
| Signed in compnance with 19.13.10.8 NWIAC | |
| 8. 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. 19.15.17 NMAC | |
| Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. | |
| | |
| 9. Siting Criteria (regarding permitting): 19.15.17.10 NMAC | |
| Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of accept | otable 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. - □ NM Office of the State Engineer - iWATERS database search; □ USGS; □ Data obtained from nearby wells | Yes No |
| 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 | Yes No |
| Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance | ☐ Yes ☐ No |
| adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (Does not apply to below grade tanks) - Written confirmation or verification from the municipality; Written approval obtained from the municipality | _ |
| | |
| Within the area overlying a subsurface mine. (Does not apply to below grade tanks) - 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) - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological | ☐ Yes ☐ No |
| Society; Topographic map | |
| Within a 100-year floodplain. (Does not apply to below grade tanks) - FEMA map | ☐ Yes ☐ No |
| Below Grade Tanks | |
| Delow Grade Taliks | |
| Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark). | ☐ Yes ☐ No |
| - Topographic map; Visual inspection (certification) of the proposed site | |
| 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 | ☐ Yes ☐ No |
| 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. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site | ☐ Yes ☐ No |

| 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). - 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 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 | ☐ 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 | |
| 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 N | JMAC | |
| Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doc | | |
| 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 19.15.17.11 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. and 19.15.17.13 NMAC | 15.17.9 NMAC | |
| Previously Approved Design (attach copy of design) API Number: or Permit Number: | | |
| 11. 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 doc attached. | cuments are | |
| 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 19.15.17.9 NMAC | .15.17.9 NMAC | |
| Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC | | |
| Previously Approved Design (attach copy of design) API Number: or Permit Number: | | |

| 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 attached. | documents are |
| 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 ☐ Leak Detection 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 19.15.17.12 NMAC | |
| Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC | |
| Nuisance or Hazardous Odors, including H ₂ S, 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 Multi-well F Alternative | luid Management Pit |
| 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) | |
| ☐ In-place Burial ☐ On-site Trench Burial | |
| Alternative Closure Method | |
| 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 sour | roo matarial are |
| provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. I | |
| 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 | □ NA |
| Ground water is between 25-50 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 | ∐ 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 | │ |
| 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). | l les l no |
| - 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 | 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 | |
| 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 | |
| Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance | Yes No |
| TERROR DISABLANDINAL DIBIDITATION DISABLES OF WITHIN A DEFINICAL DIBIDITATION WATER WELL BERLI COVERED BIDDEL A DIBIDICIDAL OFFINIANCE | • |

| 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. 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 19.15.17.11 NMAC 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 cannot be achieved) 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 | | | |
| 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 be | lief. | | |
| Name (Print):Etta Trujillo Title:Regulatory Specialist | | | |
| Signature: <u>Cta Trujillo</u> Date: <u>3/19/2024</u> | | | |
| e-mail address:etrujillo@logosresourcesllc.com Telephone:(505) 324-4154 | | | |
| 18. OCD Approval: Permit Application (including closure plan) Closure Plan (only) COD Conditions (see attachment) | | | |
| OCD Representative Signature: | 2024 | | |
| // | | | |
| Title: Environmental Scientist & Specialist-A OCD Permit Number: | | | |
| 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 plan prior is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not | | | |
| section of the form until an approved closure plan has been obtained and the closure activities have been completed. Closure Completion Date: | | | |
| | | | |
| Closure Completion Date: 20. Closure Method: ☐ Waste Excavation and Removal ☐ On-Site Closure Method ☐ Alternative Closure Method ☑ Waste Removal (Closed-logen Method) | oop systems only) dicate, by a check | | |

| 22. | |
|--|--|
| Operator Closure Certification: | |
| | 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 | |
| belief. Taiso certify that the closure compiles with an applicable closure | requirements and conditions specified in the approved closure plan. |
| N (D: 0) F(T :'11 | This is the control of the control o |
| Name (Print): <u>Etta Trujillo</u> | Title:Regulatory Specialist |
| | |
| Signature: Etta Trujillo | Date: 3/19/2024 |
| Signature. | Buc |
| · | |
| e-mail address:etrujillo@logosresourcesllc.com | Telephone:(505) 324-4154 |
| | |

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

CONDITIONS

Action 325204

CONDITIONS

| Operator: | OGRID: |
|----------------------|--|
| LOGOS OPERATING, LLC | 289408 |
| 2010 Afton Place | Action Number: |
| Farmington, NM 87401 | 325204 |
| | Action Type: |
| | [C-144] Below Grade Tank Plan (C-144B) |

CONDITIONS

| Created By | | Condition Date |
|------------|------|-------------------|
| joel.stone | None | 3/27/2024 |