District I 1625 N. French Dr., Hobbs, NM 88240 District II
1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

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

For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate NMOCD District Office.

For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

| Pit, Closed-Loop System, Below-Grade Tank, or |
|--|
| Proposed Alternative Method Permit or Closure Plan Application |

| Proposed Alternative Method Permit or Closure Plan Application |
|---|
| Type of action: Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method Modification to an existing permit Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method |
| Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, 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. |
| 1. Operator: Williams Field Services (Williams Four Corners, LLC) OGRID #: Address: 188 CR 4900 Bloomfield, NM 87413 |
| Facility or well name: SJ 31-6 # 25 LD |
| API Number: 3003923169 OCD Permit Number: |
| U/L or Qtr/Qtr Section 33 Township 3/ A Range 6 W County: |
| Center of Proposed Design: Latitude Longitude NAD: 1927 1983 |
| Surface Owner: Federal State Private Tribal Trust or Indian Allotment |
| 2. |
| Pit: Subsection F or G of 19.15.17.11 NMAC |
| Temporary: Drilling Workover |
| ☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A |
| Lined Unlined Liner type: Thicknessmil LLDPE HDPE PVC Other |
| ☐ String-Reinforced |
| Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D |
| 3. |
| Closed-loop System: Subsection H of 19.15.17.11 NMAC |
| Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent) |
| ☐ Drying Pad ☐ Above Ground Steel Tanks ☐ Haul-off Bins ☐ Other |
| Lined Unlined Liner type: Thicknessmil LLDPE HDPE PVC Other |
| Liner Seams: |
| 4 |
| Below-grade tank: Subsection I of 19.15.17.11 NMAC Volume: 4.5 bbl Type of fluid: Produced water – dehydrator fluids or other produced liquids (RCRA exempt) |
| Volume: 45 bbl Type of fluid: Produced water – dehydrator fluids or other produced liquids (RCRA exempt) Tank Construction material: Steel Fiberglass |
| 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 mil |
| |
| 5. |

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, institution or church) | hospital, |
| Four foot height, four strands of barbed wire evenly spaced between one and four feet | |
| Alternate. Please specify Four foot high welded wire (hog fence) which may include top rebar rail or barbed wire or combination | |
| 7. Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks) | |
| Screen Netting Cother Expanded metal | |
| Monthly inspections (If netting or screening is not physically feasible) | |
| 8. | 100000000000000000000000000000000000000 |
| 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 19.15.3.103 NMAC | |
| 9. Administrative Approvals 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: Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau | office for |
| consideration of approval. | office for |
| Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. | |
| 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 accematerial are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of a Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to dry above-grade tanks associated with a closed-loop system. | opriate district approval. |
| Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. | Yes No |
| - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells | |
| 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 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to temporary, emergency, or cavitation pits and below-grade tanks) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image | Yes M No |
| Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to permanent pits) | Yes No |
| - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image | Yes No |
| Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site | L Tes No |
| 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 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site | ☐ 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 |

| 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 19.15.17.12 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 Previously Approved Design (attach copy of design) API Number: or Permit Number: |
|--|
| Treviously Approved Design (attach copy of design) Art Number: or Fermit Number: |
| Closed-loop Systems 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. Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9 Siting Criteria Compliance Demonstrations (only for on-site closure) - 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 19.15.17.9 NMAC and 19.15.17.13 NMAC |
| Previously Approved Design (attach copy of design) API Number: |
| Previously Approved Operating and Maintenance Plan API Number:(Applies only to closed-loop system that use |
| above ground steel tanks or haul-off bins and propose to implement waste removal for closure) |
| 13. 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 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 Preeboard 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 Erosion Control Plan Erosion Control 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 |
| 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 Closed-loop System Alternative 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 (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration) |
| 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 F 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 I of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC |

| 16. Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.1 | |
|---|-----------------------|
| Instructions! Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if facilities are required. | more than two |
| Disposal Facility Name: Disposal Facility Permit Number: | |
| Disposal Facility Name: Disposal Facility Permit Number: | |
| Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for future ser Yes (If yes, please provide the information below) No | vice and operations? |
| Required for impacted areas which will not be used for future service and operations: 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 G of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC | С |
| 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 soun provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate disting considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justice demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance. | rict office or may be |
| Ground water is less than 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 |
| Ground water is between 50 and 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 |
| 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 |
| 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 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 private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, 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 |
| 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 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site | ☐ 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 puby 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 F of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements 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 Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F 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 cannowledge 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 G of 19.15.17.13 NMAC | .15.17.11 NMAC |

| Operator Application Certification: I hereby certify that the information submitted with this application is to | true, accurate and complete to the best of my knowledge and belief. |
|--|--|
| Name (Print): Mark Harvey, on behalf of Williams | Title: Project Coordinator |
| Signature: MID | Date: 6-11-10 |
| e-mail address: mark.b.harvey@williams.com | Telephone: 801-232-8985 or 505-632-4708 |
| OCD Approval: Permit Application (including closure plan) | Closure Plan (only) OCD Conditions (see attachment) |
| OCD Representative Signature: | Approval Date: |
| Title: | OCD Permit Number: |
| | lan prior to implementing any closure activities and submitting the closure report. 0 days of the completion of the closure activities. Please do not complete this and the closure activities have been completed. |
| | Closure Completion Date: |
| Closure Method: Waste Excavation and Removal On-Site Closure Method In the different from approved plan, please explain. | Alternative Closure Method Waste Removal (Closed-loop systems only) |
| Instructions: Please indentify the facility or facilities for where the littwo facilities were utilized. Disposal Facility Name: Disposal Facility Name: | Disposal Facility Permit Number: |
| mark in the box, that the documents are attached. Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (required for on-sit Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation) On-site Closure Location: Latitude | collowing items must be attached to the closure report. Please indicate, by a check the closure) Longitude |
| 25. Operator Closure Certification: | |
| I hereby certify that the information and attachments submitted with the | his closure report is true, accurate and complete to the best of my knowledge and are requirements and conditions specified in the approved closure plan. |
| Name (Print): | Title: |
| Signature: | Date: |
| e-mail address: | Telephone: |

Site Specific Information

The SJ 31-6 #25 LD is located approximately 25 miles northeast of Aztec in Rio Arriba County. The soil type is broadly classified as Entisols with a specific description of sandy-silt as reported on pit closure records.

The below grade tank is situated on the well pad in material cut and leveled to construct the pad where it is recessed below grade. The well pad elevation is 6445 feet above sea level.

The site is located north of La Jara Canyon and about four miles east of Navajo Reservoir. The site is greater than 500 feet from any domestic water well, spring, or wetland, and greater than 1000 feet from any other well or spring. There is no residence, school, church, hospital or other institution or significant watercourse within 300 feet. The site, as shown on the FEMA map, is not located within a 100 year floodplain. This information is based on a review of public records or from a site visit or both. Siting standards have been evaluated using information listed below for each criteria:

Ground water depth has been determined using one or more of the following sources for information:

 NM Office of the State Engineer – Water Rights Reporting System; USGS; data obtained from NMOCD well records

Determination of BGT proximity within 300 ft of a continuously flowing water course, or 200 ft of any other significant water course or lakebed, sinkhole, or playa lake (measured from the ordinary high water mark) has been determined by information obtained from one or more of the following:

• Topographic maps; Visual Inspection (certification) of the site

Determination of BGT proximity within 300 ft from a permanent residence, school, hospital, institution, or church in existence at the time of the initial application was made using one or more of the following:

• Visual inspection (certification) of the site; Aerial photo; Satellite imagery

Determination of BGT proximity within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application was made using one or more of the following sources:

 NM Office of the State Engineer – Water Rights Reporting System; Visual inspection (certification) of the proposed site

BGT location 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 was determined by:

• Written confirmation or verification from the municipality: Written approval obtained from the municipality, or review of landowner and boundary information

BGT proximity within 500 feet of a wetland was evaluated based on information from one or more of the following:

 US Fish and Wildlife Wetland Identification map: Topographic map; Visual inspection (certification) of the proposed site

Determination of the presence of a subsurface mine was made using information obtained from:

Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division

Evaluation of an unstable area in the vicinity of the BGT was made using information from one or more of the following:

 Engineering measures incorporated into the design; NM Bureau of Geology and Mineral Resources; USGS; NM Geological Society; <u>Topographic map</u>

Proximity of BGT location within a 100-year floodplain was made by evaluating published information shown on FEMA maps or from evaluation of Topographic maps.

In the absence of site specific information from public sources, information was obtained from a site visit and visual inspection. Distances from the BGT to any identified siting criteria were measured from aerial photos, topographic maps, or during site reconnaissance. Several of the maps supporting these facts are included. They are: Topographic map (Fig 1), aerial photo (Fig 2), Wetland map, and the FEMA FIRM map.

NM Water Rights Reporting System data reveal no wells are in the area. A review of NMOCD well files shows surface casing at the subject well and at a nearby well (SJ 31-6 # 218A) set at more than 200 feet bgs. Ground water then is believed to be greater than 50 feet. This is supported by the topographic setting and the absence of recorded information related to ground water.

Based on the information available, ground water is estimated to be greater than 50 feet below the bottom of the BGT. The Pit Rule siting criteria has been evaluated and this location is in an area which poses minimal risk to human health, safety, and the environment.

Note: In some cases, site evaluation criteria is collected from dated sources and may or may not represent actual conditions in existence at the time of the application. The accuracy or completeness of such information has not been independently confirmed but is considered reliable for the purpose of completing the permit application.

BGT Siting Criteria Evaluation



I have performed site reconnaissance at the 5731-642540 and have evaluated the siting criteria for below grade tanks (BGTs) as defined in the Pit Rule (19.15.17.10 NMAC).

Observations and relative information from field notes have been recorded on Form C-144 and reflect conditions at the named site. NMOCD recommended reference material(s) was examined and evaluated to validate field observations and to determine site proximity (distance) to features identified in Section 10 of C-144. In some cases, information was obtained from company operations records or earlier pit assessment records in order to facilitate the completion of the form.

The siting criteria evaluation relies on the accuracy and completeness of published data, none of which was independently verified. The findings are then accurate to the best of my knowledge and belief and reflect conditions on the date and time of the site visit.

Signature Mark Harvey, Project Coordinator Date

San Juan Basin Regional Hydrogeologic Information

The San Juan Basin region is notable both by its marked aridity and by a rugged topography of plains and valleys interspersed by buttes, canyons and mesas. Its most striking features include Chaco Canyon (northwestern New Mexico, between Farmington and Santa Fe) and Chacra Mesa. The climate of the region is arid, with average annual rainfall about 10 inches in the central part of the basin and as low as 8 inches along the San Juan River west of Farmington.

As the region gently increases in elevation in a southeasterly direction, the Basin's streams flow to the northwest, eventually draining into the Colorado River (Fagan, 2005). Maximum relief in the New Mexico part of the basin is approximately 6,580 feet, based on Mt. Taylor and the San Juan River comparative elevations.

The source of most water supplies in the San Juan Basin outside of certain municipalities is ground water obtained from wells located in surficial valley-fill deposits. In some areas, these alluvium filled channels are principal locations of discharge as well. Most recharge occurs from storm flow infiltration, but some contribution is made from bedrock sources, especially in lower reaches. In certain upper reaches, these ephemeral stream channels may be major sources of recharge to underlying bedrock aquifers. Drainage of irrigated lands also contributes a significant recharge volume to the valley fill of the San Juan, Animas, and La Plata River valleys.

Regional uplift and resulting volcanism were accompanied by a regional dissection of the area by stream systems that evolved into the present-day drainage pattern of superposed streams. Tributaries of the San Juan River that contribute large quantities of water during storm flow events include Canyon Largo, Gallegos Canyon, Chaco River, and the La Plata River. It should be noted that Canon Largo drains approximately 1700 square miles of the central part of the basin.

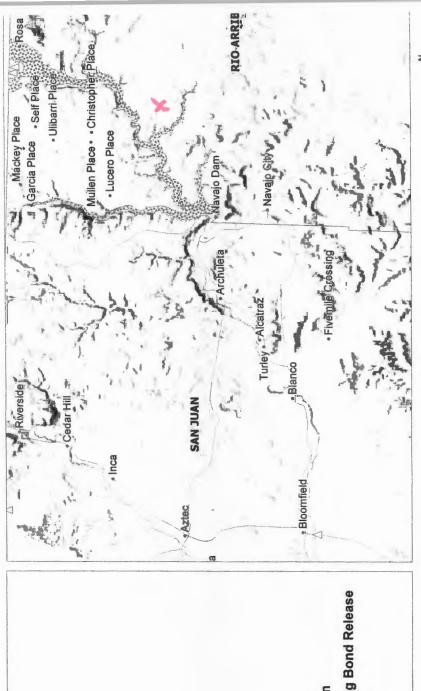
Notable aquifers are the Ojo Alamo Sandstone, which yields as much as 30 gallons per minute of potable water (Hale et al., 1965) and is identified as one of the major sources of drinking water in the region (Brown and Stone, 1979). Larger fractures found in the Fruitland coals and the presence of interbedded permeable sandstones make the Fruitland formation in the northern part of the basin a significant water source as well. Water quality can vary significantly across the region but is considered good from sources in river valleys and ephemeral streams, and poorer in areas where there is influence from bedrock sources.

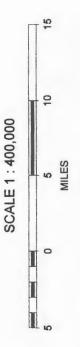
Groundwater is recharged along the Fruitland outcrops at the elevated margins to the west and northwest parts of the basin, and lateral flow converges from the northeast and southeast toward upward discharge to the San Juan River valley (Kaiser et al., 1994). The Fruitland and upper Pictured Cliffs sandstone aquifers are confined by the Kirtland shale in the north, but poorly confined by the Kirtland shale near the central and southern portions of the basin. Water from the Fruitland discharges in the western part of the basin and migrates upward across the Kirtland shale into the Animas and San Juan Rivers (Stone et al., 1983).

In general, much of the recharge to aquifers in the New Mexico part of the basin occurs on the flanks of the Zuni, Chuska, and Cebolleta Mountains and in high areas along the northern and northeastern basin margins, including the San Juan Mountains of Colorado.

Williams BGT Locations

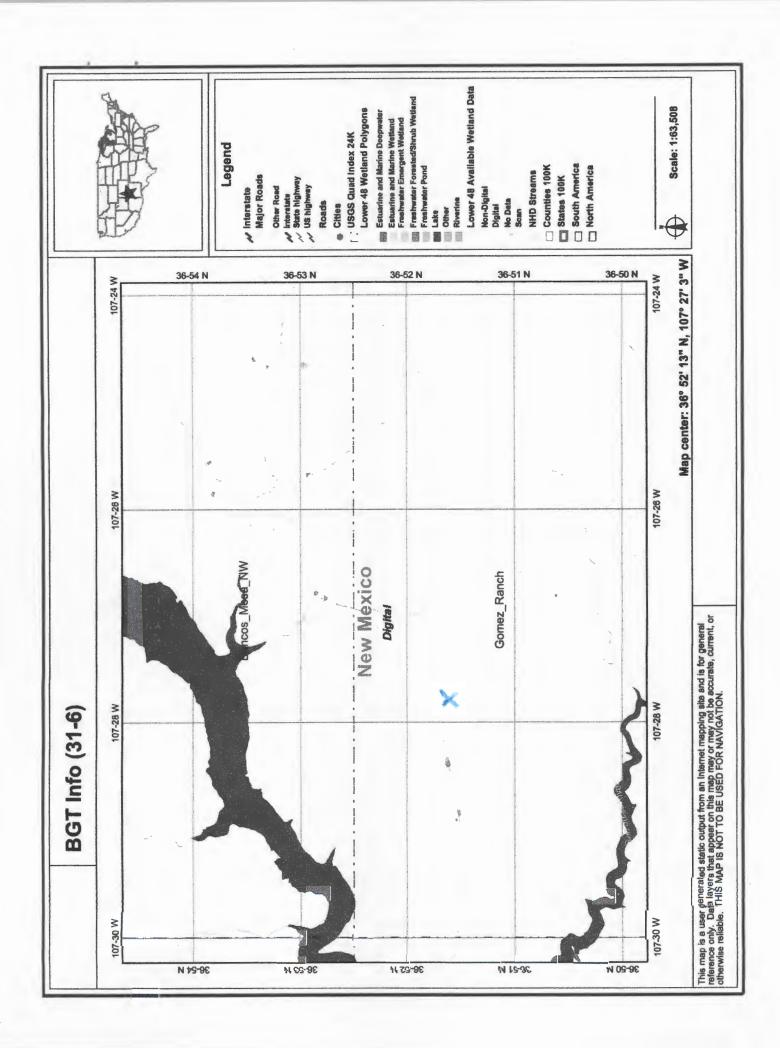
Permanent Closure, Reclaimed Awaiting Bond Release Permanent Closure, Active Reclamation Active Mining, Active Reclamation Metal Mines and Mill Concentrate Mines, Mills & Quarries Commodity Groups Potash Mines & Refineries Aggregate & Stone Mines Industrial Minerals Mines Smelters & Refinery Ops. Industrial Minerals Mills **Temporary Suspension Under Development Uranium Mines** Mines, Mills & Quarries Status **Uranium Mills** Active Mining Coal Mines

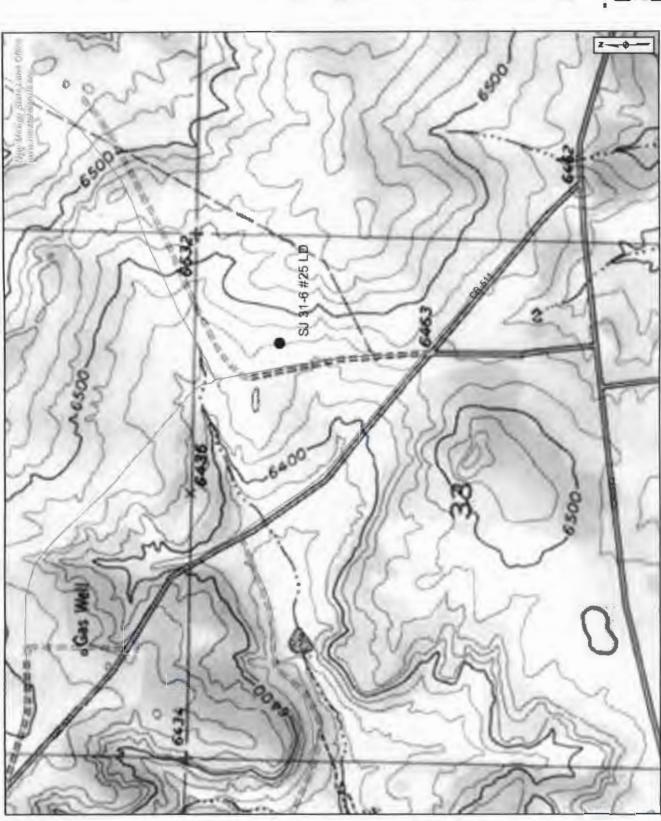




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Oil, Gas, and Minerals Land/Lease Information Map New Mexico State Land Office

0 0.030.06 0.12 0.18 0.24 Miles

Universal Transverse Mercator Projection, Zone 13 1983 North American Danum

or in connection with, the accuracy, reliability or use of the information provided here, in State Land Office duta layers or any other data layer. The New Mexico State Land Office assumes no responsibility or liability for,



Federal Subsurface Ownership State Trust Lands Ownership Oil, Gas and Coal Only NMOCD Oil, Gas Wells City, Town or Village SLO District Offices Commercial Leases ... Continental Divide Highway Mileposts △ Salt Water Disposal Subsurface Estate Oil and Gas Only Minerals Leases Other Minerals ☆ Carbon Dioxide Surface Estate ★ Volcanic Vents State Lease Types Both Estates Miscellaneous All Minerals Coal Only ♦ DA or PA Injection Water ⇔ Gas •

LEGEND

Oil, Gas Leasing Influenced By Restriction Agricultural Leases Oil and Gas Leases

Not Available for Oil, Gas Leasing

Other Boundaries

State Boundary

Oil and Gas Unit Boundary County Boundaries

Participating Areas in Units

Geologic Regions

NMOCD Order R-111-P Potash Enclave Outline

New Mexico, please see http://geoinfo.nmt.edu/ For detailed legend of the Geologic Map of



New Mexico State Land Office

Oil, Gas, and Minerals Land/Lease Information Map

0 0.030.06 0.12 0.18 0.24 Miles

Universal Transverse Mercator Projection, Zone 13 1983 North American Danum

or in connection with, the accuracy, reliability or use of the information provided here, in State Land Office data layers or any other data layer. Land Office Geographic Information Center logic@slo.state.rm.us The New Mexico State Land Office assumes no responsibility or liability for,

LEGEND

- County Seats
- ▲ SLO District Offices
- City, Town or Village
- Volcanic Vents
- Highway Mileposts

NMOCD Oil, Gas Wells

- Carbon Dioxide
- Injection
- Miscellancous
- Oil
- A Salt Water Disposal

Federal Subsurface Ownership

♦ DA or PA

Water

All Minerals Coal Only

Oil and Gas Only

Oil, Gas and Coal Only

Other Minerals

State Trust Lands Ownership

Subsurface Estate Surface Estate Both Estates

State Lease Types

Commercial Leases

Minerals Leases

Oil and Gas Leases

Agricultural Leases

Oil, Cas Leasing Influenced By Restriction

Not Available for Oil, Gas Leasing

Other Boundaries

... Continental Divide State Boundary

County Boundaries

Oil and Gas Unit Boundary

Participating Areas in Units

Geologic Regions

NMOCD Order R-111-P Potash Enclave Outline

For detailed legend of the Geologic Map of New Mexico, please see http://govinfo.mnt.edu/

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New Mexico Office of the State Engineer

Point of Diversion with Meter Attached

No PODs found.

PLSS Search:

Section(s): 33

Township: 31N Range: 06W

57 31-6 # 25 60

The data is funished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, or sultability for any particular purpose of the data.



New Mexico Office of the State Engineer Wells Without Well Log Information

No wells found.

PLSS Search:

Section(s): 33

Township: 31N

Range: 06W



Wells with Well Log Information New Mexico Office of the State Engineer

No wells found.

PLSS Search:

Section(s): 33

Township: 31N

Range: 06W

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, by suitability for any particular purpose of the data.

| Plane 1 of 1 | Plane 2.02 | PM | Plane 1 of 1 |



Williams Four Corners, LLC

Design and Construction Plan for Below Grade Tanks

San Juan Basin - New Mexico

The following has been developed to satisfy requirements of Rule 19.15.17.11 NMAC and describes general design and construction standards to be used by Williams Field Services when installing below grade tanks. This is a standard procedure and any deviation from these standards due to site specific conditions will require development of a design and construction plan modification. Any such deviation and plan modification requires separate NMOCD approval.

While existing tank installations have served to protect public health and the environment, this plan serves to standardize the construction design to ensure the required elements specified by NMOCD Rules are incorporated when installing new tanks, or when modifying or retrofitting tanks. The design standards herein shall also apply when modifications are made to existing below grade tanks.

Applicability

This plan applies to all new below grade tank installations for Williams Field Services' operations in New Mexico as well as modifications made to existing tanks. It is developed to ensure that below grade tank operations are protective of fresh water, public health and the environment.

Design and Construction

- Excavation for tanks shall be made to ensure a properly constructed level foundation free of rocks and debris which could puncture or damage a synthetic liner or tank bottom.
- Soil conditions will dictate the size and sidewall slope and will be evaluated for stability. Cribbing reinforcement may be necessary at certain sites.
- 3. A 30-mil flexible PVC or 60-mil HDPE liner (or equivalent liner when approved by the OCD) with hydraulic conductivity no greater than 1 x 10-9 cm/sec shall be installed within the excavation to cover the bottom and sidewalls and in such a manner to direct fluid to a single inspection point (for evidence of leakage).
- 4. The liner will be resistant to UV light, hydrocarbons, salts, alkaline, and acidic solutions, and otherwise compatible with the material(s) to be contained. Liner compatibility shall comply with USEPA SW-846 method 9090A. To evidence appropriate liner use, a liner specification sheet will be provided to the NMOCD for approval when a C-144 is prepared for modifications or retrofit, or if new liner material is utilized.

- 5. Washed gravel will be placed on the liner (lined bottom) for tank placement to allow for visual leak detection (some liner exposed) and subsequent inspection. The tank bottom is required to be at least six inches above the underlying ground surface.
- 6. Tanks shall be constructed of single wall steel meeting all API and industry codes and shall otherwise be compatible with the fluids to be contained and be UV resistant. WFS shall, in most cases, utilize 45 barrel tanks (5'h x 8'w) or 70 barrel tanks (5'h x 10'w) for future BGT installations (variations will be noted on C-144 Forms as appropriate). Tanks may or may not be constructed with double bottoms
- 7. Each tank shall be installed with automatic high level shut off control devices and manual controls appropriate to prevent overflows. The automatic shut-off shall be set to maintain adequate freeboard (minimum 28 inches).
- 8. Tanks will have one inch (or less) steel mesh (i.e. expanded metal) or solid steel covers or otherwise be constructed to prevent migratory bird / fowl contact.
- A solid riser pipe will be installed to facilitate liquid removal from the tank. The
 riser shall have a cap or cover and be positioned to prevent standing
 accumulation of liquids within the riser.
- 10. BGT installations will include an earthen berm to prevent surface water run-on.
- 11. BGT installations will be fenced to protect livestock and wildlife in accordance with 19.15.17.11 (D). Fencing shall prevent unauthorized access and at a minimum be four feet high with four strands of barbed wire spaced in the interval between one foot and four feet above ground. In lieu of barbed wire, the fence may be constructed using "hog wire" or similar fencing to satisfy the requirement. Other fence designs will require NMOCD approval.
- 12. A six foot high chain link will be installed around BGT locations within 1000 ft of a permanent residence, school, hospital, institution, or church. At least two strands of barbed wire will be placed at the top. If the well site or facility has perimeter chain link fencing of equivalent design, then a pit or below grade tank fence is not necessary. Unmanned facilities must have a locked gate.
- 13. Appropriate signage will be installed in accordance with 19.15.17.11 (C) and include Operator name (Williams), legal location information, and emergency telephone contact information. The sign will be at least 12" x 24" with lettering not less than 2" in height and be placed on the fence surrounding the BGT.
- 14. An existing single walled tank (installed prior to June 16, 2008) which has completely open sidewalls for visible inspection and which may or may not have a geomembrane liner, need not meet the above design and construction standards unless and until integrity fails, or there is a change of Operator, or the tank or facility is sold. The tank will then be closed pursuant to the Closure Plan or be retrofitted in accordance with the design drawing (see Figure 1) or NMOCD approved modification.

15. An existing single walled tank (installed prior to June 2008) where any portion of the tank sidewall is below the ground surface and not visible shall be modified or retrofitted to meet the above design and construction standards if at any time the tank leaks, or demonstrates failed integrity prior to June 15, 2013. If the tank is not retrofitted or replaced, then the tank shall be closed by June 15, 2013 in accordance with the BGT Closure Plan. Such tanks shall also be closed or retrofitted prior to June 15, 2013; prior to any sale or change in Operator, or, at any time at the discretion of the Operator or NMOCD.

Any modifications to, or retrofitting of existing tanks shall necessitate that all of the aforementioned design elements be included and as provided in the design drawing (see Figure 1). If modifications cannot reasonably include the same design standards for new tanks, the existing tank shall be retired and removed from service. In this event, the Williams Closure Plan for Below Grade Tanks shall be implemented.

DEHY (Liner compatibility shall comply with USEPA SW-846 method 9090A. Must be resistant to UV, petroleum hydrocarbons, salts, acid and alkaline solutions. Meet hydraulic conductivity 1 x 10° cm/8 Flexible 30 mil PVC or 60 mil HDPE liner Manual Shut-off Optional double bottom High Level Shut-off Typical Below Grade Tank Installation SGT Steel Tank Expanded Metal Cover 15,470 3/8" Clean Gravel Tank placed at least 12" from sidewall (6" min) Earthen Berm

Note: Foundation shall be free of nocks and debris and otherwise made level. Liner is anchored at ground surface - min 12 in trench. Installation allows for fluid collection point and visible inspection of exposed liner. Shut-off system designed to maintain 28* freeboard. Installation location should meet siting criteria or be approved by NMOCD.



FIGURE 1: Standard BGT Design FCA DATE: 01-07-10



Williams Four Corners, LLC

Maintenance and Operating Plan for Below Grade Tanks

San Juan Basin - New Mexico

Background

Following promulgation of 19.15.17 NMAC also known as the Pit Rule, Williams has developed this Maintenance and Operating Plan to comply with requirements related to ongoing use of below grade tanks (BGTs). The plan is developed to ensure that Williams' operation of BGTs is adequate to contain liquid discharges from production equipment and ensure that those discharges are captured in a prescribed manner suitable to protect fresh water, public health and the environment.

Williams has previously operated BGTs and other discharge containment structures consistent with applicable regulations. All BGTs have been operating in general compliance with OCD regulations developed prior to the new Pit Rule of June 2008. This plan describes in greater detail, the operating policies and procedures and new information specifically detailed in the new Pit Rule.

Applicability

This plan shall be used for any and all BGTs in service. Elements of this plan have been developed to not only satisfy current regulatory requirements, but to define best practices for responsible operations.

While unlikely, if conditions at a BGT location prevent or limit adherence to this plan, a separate site specific plan will be developed. Such a plan will be prepared and submitted to the OCD for approval and serve as a site specific amendment.

Operation of BGTs

Williams shall operate and maintain all BGTs, including liners and secondary containment structures, in a condition to ensure integrity. The goal is to prevent contamination of soil and fresh water and otherwise be protective of public health and the environment. To accomplish this, regular inspection events and specific installation (i.e. design) criteria must be followed and performed.

New and existing BGTs shall be operated to comply with the standards established by the OCD and described in the Pit Rule (19.15.17). Installation design details are provided in the WFS Design and Construction Plan for Below Grade Tanks. Following are current operating standards applicable to BGTs:

Operating Standards

- All BGTs shall have berms or diversion ditches to ensure surface run-on does not enter any tank or containment.
- BGT fluid levels will be maintained to ensure proper free: board (28") by effective use of high level shut-offs / level controllers. In the event of malfunction or if freeboard cannot otherwise be maintained, then excessive volumes shall be pumped off for hauling and proper disposal (management).

- Remove any visible or measurable layer of oil from the fluid surface of the BGT
- Fluid removal shall be performed in a manner preventing damage to the tank, secondary containment liner, or diversion structures (i.e. berms)
- A below-grade tank constructed and installed prior to June 16, 2008 that does not meet current design standards and that does not otherwise demonstrate integrity (i.e. leaks), or when there is any penetration of liner material below the liquid surface, shall be closed pursuant to the Closure Plan. Installation of any new tank meeting the current design criteria (see Figure 1 Design Drawing) shall commence only after closing the defective BGT.
- If a BGT or BGT liner is damaged below the liquid surface, all fluids will be removed
 which are above the damage or leak within 48 hours of discovery. Notification will be
 made to the NMOCD District Office within 48 hours and appropriate repairs made before
 putting the BGT back in service (applies to tanks meeting current design standards).
- If a BGT liner is damaged above the liquid surface, notice will be made to the local NMOCD District Office within 48 hours of discovery and appropriate repairs made.
- A BGT constructed and installed prior to June 16, 2008 that does not meet current design standards can be equipped or retrofitted to meet current design standards (refer to the Design and Construction Plan) at anytime prior to June 2013. In such cases:
 - Visually inspect the area beneath the below-grade tank during the retrofit and document any areas that are wet, discolored or showing other evidence of a release on Form C-141.
 - 2. Demonstrate to the division whether the evidence of contamination indicates an imminent threat to fresh water, public health, safety or the environment exists.
 - If the division determines that the contamination does not pose an imminent threat to fresh water, public health, safety or the environment, Williams will complete the retrofit or the replacement of the below-grade tank.
 - 4. If Williams or the NMOCD determines that the contamination poses an imminent threat to fresh water, public health, safety or the environment, then the BGT will be closed pursuant to the Closure Plan prior to initiating the retrofit or replacement.
 - 5. If the BGT is not retrofitted to meet current design standards, then the tank will be closed prior to any sale, transfer of ownership, or change of Operator.
- Close all single walled BGTs that do not have completely open and visible sidewalls
 when integrity is compromised and modifications cannot be made to meet current design
 standards. Note that all such tanks must be modified or retrofitted to meet current
 design standards or be closed by June 15, 2013. This requirement also applies
 prior to any sale, transfer of ownership, or change of Operator.
- Ensure that any BGT modification, replacement, or retrofit conforms with current and applicable design and construction specifications (see Design and Construction Plan Figure 1).

Inspection

- Monthly inspections will be performed to assess the overall operation of tanks to ensure integrity and working high level shut off systems
- Maintain written inspection reports for five years

Records and Documentation

Records of monthly inspections will be documented and maintained for at least five years. Monthly inspection information shall include:

Well or facility name

API # (for well locations)

Legal information (Section, Township, Range)

Date and time of inspection

Confirmation of visible sidewalls and adequate berms

Confirmation of BGT integrity and overall condition

Observations of overflows, oil accumulation, freeboard, overall integrity of liner, etc.

Identified deficiencies and corrective action(s)

Inspector Name

The attached form shall be used when performing BGT monthly inspections.

NOTE: If a release event is identified, all liquid above the leak line shall be removed within 48 hours and oral notification made to the NMOCD District Office (within 48 hours of discovery).

Independent of the reporting above, and depending on the estimated volume of the release, a separate written spill report (Form C-141) may be required under Rule 29.



Date: ____ BGT MONTHLY INSPECTION FORM Well Name (or facility) API No. ___ Unit Letter ___ Section ___ Township ___ Range ___ Latitude _____ Longitude _____ Conditions Observed: Adequate Freeboard (min 28") yes __ no ___ Evidence of Overflow yes __ no __ Evidence of wildlife impact yes __ no ___ Oil Accumulation yes ___ no __ High Level Shutoff Operational yes __ no __ unknown Liner in Good Condition yes__ no ___ no ___ Fence or screen needs repair yes ___ Overall tank integrity good yes ___ no ___ Berms appear adequate yes___ no ___ Sidewalls visible no ___ yes __ Note nature of deficiencies (if any): Action(s) Necessary: Service provider: Oil Removal High level maintenance Service provider: Fluids removal Service provider: Remove from service (isolate tank): Contact _____ If Release Event Observed, notification requirements include Williams Environmental and OCD District Office. OCD Notification Made yes no Williams Environmental Notified yes __ no __ OCD notification made by Williams Environmental: yes ___ no __ unknown __ Time of Inspection: _____ am pm Weather: _____ Inspector Name and Title: ______ Title _____



Williams Four Corners, LLC

Closure Plan for Below Grade Tanks

San Juan Basin - New Mexico

Background

Following promulgation of 19.15.17 NMAC also known as the Pit Rule, Williams has developed this Closure Plan to comply with requirements related to the retirement of certain below grade tanks (BGTs). The plan will be used when closing BGT locations near term, and for all BGTs which are required to be closed by June 15, 2013. This plan shall also be used when closing any other BGT operated by Williams.

Certain below grade tanks targeted under this closure plan were, in some cases, installed subsequent to earthen pit closures and were constructed in conformance with NMOCD approved criteria. All BGTs have been operating in general compliance with NMOCD regulations developed prior to the new Pit Rule of June 2008.

Applicability

This plan shall be implemented when any BGT is retired or removed from service due to operational considerations or when tank integrity is compromised beyond repair. Closure shall commence within 60 days of cessation of use or sooner if directed by NMOCD.

The plan shall also be used if any leaking BGT is not retrofitted or modified to comply with applicable design criteria defined in the Pit Rule or when it is determined that continued operation of the BGT represents an imminent danger to fresh water, human health or the environment. All BGTs with or without completely visible sidewalls, and that do not meet current design standards, shall be closed prior to sale, transfer, or change of Operator or be retrofitted to meet current design standards. In any event, all single walled tanks without completely visible sidewalls shall be closed by June 15, 2013 in accordance with the provisions herein.

If there are conditions at a BGT location which prevent or limit adherence to this plan, a separate site specific plan will be developed. Such a plan will be prepared and submitted to the NMOCD for approval and serve as a new, site specific closure plan.

Description of Work

Prior to initiating BGT closure work, notification will be made to the NMOCD Aztec Office 3-7 days before work is scheduled. In addition, the landowner of record (obtained through county tax records) will be notified in advance by certified mail with return receipt. Notifications will provide operator identity, and legal location of the BGT, and the well name / number and API number if the BGT is associated with a well. Notification to NMOCD will be made via email or by phone. If prudent, and contingent upon work schedules and manpower assignments, more than one location may be included in a single communication.

Discharge to the BGT will be eliminated and all piping removed or re-routed as appropriate. The liquid contents in the tank will be removed and shipped for disposal at an NMOCD approved and permitted facility. Williams may utilize other facilities which may be approved by the NMOCD in the future. As such, the selected disposal site will be identified on the closure form (C-144) prepared for each discrete closure action.

The table below provides a list of waste materials and the facility proposed for disposal or recycling:

Table 1

| Steel Tank | SJ County Landfill or Steel Recycling |
|--|--|
| Fiberglass Tank | SJ County or Bondad Landfill * or Re-use |
| Liner (cleaned - absent soil / sludge) | SJ County or Bondad Landfill |
| Sludge | Envirotech, IEI, TNT, or Bondad Landfill |
| Liquids (Water / Hydrocarbons) | Basin Disposal, Key Energy, TNT |
| Contaminated Soil | Envirotech, IEI, TNT, or Bondad Landfill |
| Fencing / Miscellaneous | Re-use or scrap |

*the tank must be empty, cut up or shredded and EPA clean

Permit Numbers and additional approved facilities are listed on the attached spreadsheet.

The use of any disposal or recycling facility will be identified on the C-144 form submitted to the NMOCD as part of the closure report. Any and all ancillary equipment related to the tank will also be removed, including any synthetic liner material(s) and fencing. Williams will ensure that liners and liner material will be free of soil and sludge material and disposed of at a NMOCD approved solid waste facility (e.g. San Juan County Landfill or Permitted CO Facility).

Steel or fiberglass tanks will be removed and shipped to a Williams storage yard where the condition of each tank will be evaluated for recycling, reuse, or disposal, subject to NMOCD approval. If the tank is not in a condition allowing reuse, it will either be shipped to a permitted recycling facility (for steel tanks) or it will be disposed of at the San Juan County Landfill (NMED Permit SWM-052426) or other NMOCD approved solid waste disposal site. Specific waste acceptance conditions of the landfill could necessitate further actions as appropriate. Such actions include, but may not be limited to, cutting, shredding, or sizing; emptying or cleaning of tanks or liner material, and otherwise those necessary to conform with permit conditions for Subtitle D disposal and conditions identified in 19.15.35.8 NMAC.

After the tank and equipment have been removed, soils beneath the tank will be tested and evaluated to determine if there is hydrocarbon impact or otherwise if a release event has occurred. Specific sampling protocol will follow the description provided in the Pit Rule which calls for a five point composite sample (see Sampling and Lab Analyses section). Additional grab samples will be collected if there is obvious staining, or when wet or discolored soil exists, or if there is other evidence of soil impact(s). Samples will be shipped to an off-site environmental testing laboratory for proper analyses. Results will be submitted to the NMOCD on form C-141. Further sampling may be required if NMOCD determines additional assessment work is necessary.

If there has been no release to underlying soils as demonstrated by soil analyses (i.e. lab results), or if impacts are below closure limits provided in the table below, then the depression (i.e.excavation) will be backfilled with "non-waste containing" fill material. Depending on site conditions and operating needs, the backfilled area will be reclaimed with prescribed topsoil and reseeded.

If NMOCD or Williams determines a release event has occurred, Williams will comply with 19.15.29 and / or 19.15.30 as appropriate. If analyses of soils excavated in conjunction with the BGT removal should reveal contaminant concentrations at or below specified closure limits (see Table 2 below), then the soil may be returned to the excavation and covered with prescribed soil cover. Sampling of the excavated material is detailed in the Sampling and Laboratory Analyses section later in this plan.

Due to the fact that most of Williams BGTs are located on active well sites, reclamation efforts may be deferred in order to avoid impact to ongoing lease operations. In this event, the area of the retired BGT will be incorporated into the overall well site reclamation effort with Williams documenting surface owner and lease operator approval of the proposed alternative.

The BGT site will nevertheless be prepared to prevent erosion, and protect fresh water, human health, and the environment. Williams will submit this documentation to the NMOCD for approval.

Restoration efforts shall incorporate proper contouring as described in the Pit Rule and shall be constructed in a manner to prevent ponding and erosion, using drainage controls such as water bars and/or silt traps as appropriate. Soil cover (suitable for vegetative growth) will be equivalent to the background thickness of topsoil or minimum one foot depth (or background thickness whichever is greater). The area will be contoured in a manner blending soil into/with the surrounding grade. Reclamation shall target the location of the BGT along with associated access roads (not used for production operations) and be implemented to ensure a safe and stable condition that blends with the surrounding undisturbed area.

Re-vegetation efforts will conform with NMOCD approved methods and recommendations including seed type and application rates and shall effect cover equaling 70% of native perennial vegetation. Re-vegetation shall establish at least three native plant species, including at least one grass, but not including any noxious weeds, through two successive growing seasons. Seeding will be accomplished by drilling on the contour whenever practicable or by other NMOCD approved methods.

Seeding efforts will be initiated during the first growing season after closure work is approved and be repeated until re-vegetation is successful. Notification will be made to NMOCD anytime seeding efforts begin and when successful re-vegetation is sustained. Adverse growing conditions (e.g. drought, etc.) may cause delay until conditions are more favorable or necessitate enhanced cultivation techniques (e.g. mulching, irrigating, etc.) as approved by NMOCD.

Sampling and Laboratory Analyses

A minimum five point composite sample shall be collected from the soils beneath the below grade tank and one or more grab samples from each area that is wet, discolored or showing other evidence of a release. Sampled soil will be placed in clean glass jars and cooled and maintained at 39°F. Samples will be packaged and shipped under USEPA Chain-of-Custody protocol to an approved and certified environmental laboratory.

Soil samples collected from the earthen containment (i.e. BGT excavation) will be analyzed by an approved environmental laboratory by the listed test methods or as may be directed by the NMOCD. The following table lists the contaminants of concern, testing methods, and the closure limits defining action levels:

Table 2

| Contaminant | Test Methods | Closure Limits (mg/Kg) |
|-------------|----------------------------------|------------------------|
| Benzene | EPA SW-846 Method 8021B or 8260B | 0.2 |
| BTEX | EPA SW-846 Method 8021B or 8260B | 50 |
| TPH | Method 418.1++ | 100 |
| Chlorides | EPA SW-846 Method 300.1 | 250* |

^{*} Or background concentration - whichever is greater.

In the event soil is found to have contaminants in excess of the action levels above, requirements of 19.15.29 NMAC and 19.15.30 NMAC shall dictate further actions. Such action would likely include development of a Remedial Action Plan or Abatement Plan as specified under those Rules.

++ Not currently used USEPA Method (Replaced by Method 1664). Method 418.1 is required by NMOCD.

Sampling of any excavated or stockpiled material shall conform with standard environmental sampling protocol. Samples from excavated materials (excavated to facilitate the BGT removal) will be composite samples comprised of at least five discrete samples from the inside and on the surface of the soil pile. A minimum of one composite will be collected from each 25 cubic yards of soil (i.e. one fraction from each cubic yard). Every effort will be made to collect composite fractions from the inside and outside of the soil pile such that a "representative" sample is analyzed.

Rev 4-06-10

Stockpile sampling will be facilitated by utilizing a clean soil probe inserted into the soil pile at least three feet or by turning the soil pile with mechanized equipment to expose new soil. The goal is to collect a sample representative of the "whole". These samples will be handled and packaged as described above and be analyzed by the methods listed in Table 2. Soil with contaminant concentrations at or below the Closure Limits may be returned to the BGT excavation prior to initiating reclamation work.

Records and Documentation

All closure activities will be properly documented and include preparation of Form C-144 which shall be submitted to the NMOCD within 60 days of completing closure tasks. Information to be included in the closure report filing shall include, but not necessarily be limited to, the following:

- Proof of closure notice to division and surface owner(s)
- Confirmation sampling and analytical reports (results)
- · Disposal facility name and permit information
- Description of capping and reclamation actions (i.e. revegetation rates)
- Photo documentation of site reclamation
- Other information required to complete applicable sections of C-144

As stated above, should conditions at any location necessitate a change to the approach described herein, separate site specific closure details will be provided as an addendum to this plan.

| | | | | Calda |
|----|---|-----------------------|---|----------------|
| 19 | GANDY MARLEY INC | 10/06/1994 Chaves | GANDY MARLEY LANDFARM | 4-11 S-31 E |
| 28 | OLD LOCO OIL CO | 07/02/1985 Eddy | OLD LOCO TREATING PLANT | -19-17 S-31 E |
| 43 | Loco Hills Landfarm LLC | 11/08/2004 Eddy | Loco Hills Landfarm | m-32-16 S-30 E |
| 4 | LOCO HILLS WATER DISPOSAL | 10/30/1981 Eddy | LOCO HILLS WATER DISPOSAL | M-16-17 S-30 E |
| 36 | OK HOT OIL SERVICE INC | 08/16/2000 Eddy | OK HOT OIL SERVICES INC | O-14-17 S-28 E |
| 24 | CHAPARRAL SWD | 01/31/1995 Lea | CHAPARRAL TREATING PLANT | B-17-23 S-37 E |
| 35 | LEA LAND INC | 01/05/2000 Lea | LEA LAND LANDFILL | -32-20 S-32 E |
| 12 | C&C LANDFARM INC | 11/16/1992 Lea | C&C LANDFARM | B-3-20 S-37 E |
| 13 | ENVIRONMENTAL PLUS INC | 02/15/1993 Lea | ENVIRONMENTAL PLUS LANDFARM | -14-22 S-37 E |
| 15 | GOO YEA LANDFARM INC | 11/16/1992 Lea | GOO YEA LANDFARM | -14-11 S-38 E |
| 23 | J&L LANDFARM INC | 05/10/1998 Lea | J&L LANDFARM | -9-20 S-38 E |
| 25 | GANDY CORP | 06/27/1973 Lea | Gandy Corp. Treating Plant | -11-10 S-35 E |
| 26 | JENEX OPERATING CO | 09/21/1983 Lea | JENEX TREATING PLANT | D-14-20 S-38 E |
| 30 | ARTESIA AERATION LLC | 06/29/1999 Lea | ARTESIA AERATION LANDFARM | -7-17 S-32 E |
| 32 | SOUTH MONUMENT SURFACE WASTE FACILITY LLC | 10/04/1999 Lea | SOUTH MONUMENT LANDFARM | A-25-36 S-20 E |
| 33 | DOOM LANDFARM | 04/03/2000 Lea | DOOM LANDFARM | g-5-25 S-37 E |
| 34 | DD LANDFARM INC | 04/12/2000 Lea | DD LANDFARM | -31-21 S-38 E |
| 21 | RHINO OILFIELD DISPOSAL INC | 11/17/1997 Lea | RHINO OILFIELD LANDFARM | -34-20 S-38 E |
| 44 | COMMERCIAL EXCHANGE, INC. | 11/01/2004 Lea | Blackwater Oil Reclamation Facility | d-1-25 S-37 E |
| 39 | PITCHFORK LANDFARM LLC | 10/30/2002 Lea | PITCHFORK LANDFARM | A-5-24 S-34 E |
| 9 | CONTROLLED RECOVERY INC | 04/27/1990 Lea | CONTROLLED RECOVERY | -27-20 S-32 E |
| 42 | COMMERCIAL EXCHANGE, INC. | 07/22/2004 Lea | Blackwater Landfarm | f-1-25 S-37 E |
| 38 | SAUNDERS LANDFARM LLC | 10/28/2002 Lea | SAUNDERS LANDFARM | M-7-14 S-34 E |
| 41 | LAZY ACE LANDFARM LLC | 03/09/2004 Lea | LAZY ACE LANDFARM | M-22-20 S-34 E |
| ဇ | SUNDANCE SERVICES, INC. | 08/30/1977 Lea | SUNDANCE PARABO | m-29-21 S-38 E |
| 37 | COMMERCIAL EXCHANGE, INC. | 03/31/2003 Lea | COMMERCIAL SURFACE WM FACILITY | A-1-20 S-36 E |
| 80 | T-N-T ENVIRONMENTAL INC | 01/19/1987 Rio Arriba | TNT EVAP POND/LANDFARM | -8-25 N-3 W |
| Ξ | ENVIROTECH INC | 07/07/1992 San Juan | ENVIROTECH LANDFARM #2 | -6-26 N-10 W |
| o | KEY FOUR CORNERS INC | 04/02/1991 San Juan | KEY EVAP POND and Landfarm | E-2-29 N-12 W |
| 10 | JFJ LANDFARM LLC | 07/22/2002 San Juan | JFJ Land Farm Crouch Mesa (Formerly Tierra) | j-2-29 N-12 W |
| z, | BASIN DISPOSAL INC | 10/16/1987 San Juan | BASIN DISPOSAL EVAP, POND | F-3-29 N-11 W |