District I
1625 N. French Dr., Hobbs, NM 88240
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

State of New Mexico
Energy 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.

15654

Pit, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application

OIL CONS. DIV DIST. 3

OCT 18 2016

Type of action:
- ☒ Below grade tank registration
- ☐ Permit of a pit or proposed alternative method
- ☐ Closure of a pit, below-grade tank, or proposed alternative method
- ☐ Modification to an existing permit/or registration
- ☐ Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank, or proposed alternative method

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

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

1.
Operator: Enterprise Products Operating, LLC OGRID #:
Address: P.O. Box 4324, Houston, TX 77210
Facility or well name: McDermott Compressor Station Tank #5
API Number: OCD Permit Number:
U/L or Qtr/Qtr SE1/4/NE1/4 Section 1 Township 31N Range 13W County: San Juan
Center of Proposed Design: Latitude 36.928593° Longitude -108.149877° NAD: ☐1927 ☒1983
Surface Owner: ☒ Federal ☐ State ☐ Private ☐ Tribal Trust or Indian Allotment

2.
☐ **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

3.
☒ **Below-grade tank:** Subsection I of 19.15.17.11 NMAC
Volume: 250 Gal Type of fluid: Waste oil, skid drain fluids, antifreeze, wash down water
Tank Construction material: Fiberglass double walled and bottom
☐ Secondary containment with leak detection ☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☒ Other Double wall tank with level detection and riser pipe in annular space for monitoring
Liner type: Thickness mil ☐ HDPE ☐ PVC ☐ Other

4.
☐ **Alternative Method:**
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

5.
Fencing: Subsection D of 19.15.17.11 NMAC *(Applies to permanent pits, 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, institution or church)*
☐ Four foot height, four strands of barbed wire evenly spaced between one and four feet
☐ Alternate. Please specify

45

6.

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

☐ Screen ☐ Netting ☒ Other Enclosed

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

7.

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

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.

☐ 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 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. - ☐ NM Office of the State Engineer - iWATERS database search; ☐ USGS; ☒ Data obtained from nearby wells	☐ 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	☐ 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)** - 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)** - 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 Society; Topographic map	☐ Yes ☐ No
Within a 100-year floodplain. **(Does not apply to below grade tanks)** - FEMA map	☐ Yes ☐ No
Below Grade Tanks	
Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☒ No
Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☒ No
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)	
Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.) - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application. 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 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 19.15.17.11 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: _____ 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 documents are 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 19.15.17.9 NMAC and 19.15.17.13 NMAC
☐ Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 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: _____

12.
Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC

Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- ☐ Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC
- ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
- ☐ Climatological Factors Assessment
- ☐ Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ 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_2S, 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 Fluid Management Pit ☐ 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

14.
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) ***Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.***

- ☒ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
- ☒ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC
- ☐ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)
- ☒ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- ☒ Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- ☒ Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

15.
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC

Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. Please refer to 19.15.17.10 NMAC for guidance.

Ground water is less than 25 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	

adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	☐ Yes ☐ No
Within a 100-year floodplain. - FEMA map	☐ Yes ☐ No

16.
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 19.15.17.11 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
- ☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 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 belief.

Name (Print): Ivan W. Zirbes Title: Vice President-EHS&T

Signature: Date: 10-13-2016

e-mail address: snolan@eprod.com Telephone: 713-381-6595

18.
OCD Approval: ☒ Permit Application (including closure plan) ☐ Closure Plan (only) ☐ OCD Conditions (see attachment)

OCD Representative Signature: **Approval Date:** 12/22/16

Title: Environmental Spec. **OCD Permit Number:** 15654

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:**

20.
Closure Method:

☐ Waste Excavation and Removal ☐ On-Site Closure Method ☐ Alternative Closure Method ☐ Waste Removal (Closed-loop systems only)
☐ If different from approved plan, please explain.

21.
Closure Report Attachment Checklist: ***Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check 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 for private land only)
- ☐ Plot Plan (for on-site closures and temporary pits)
- ☐ Confirmation Sampling Analytical Results (if applicable)
- ☐ Waste Material Sampling Analytical Results (required for on-site closure)
- ☐ 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 _____ Longitude _____ NAD: ☐1927 ☐ 1983

22.

Operator Closure Certification:

I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.

Name (Print): _____ Title: _____

Signature: _____ Date: _____

e-mail address: _____ Telephone: _____

Souder, Miller & Associates ♦ 401 W. Broadway ♦ Farmington, NM 87401
(505) 325-7535 ♦ (800) 519-0098 ♦ fax (505) 326-0045

August 2016 SMA #5124213

Mr. Tom Long
Enterprise Products Operating, LLC
Field Environmental-San Juan Basin
614 Reilly Avenue
Farmington, NM 87401

BGT REGISTRATION PACKET FOR MCDERMOTT COMPRESSOR STATION TANK #5 LATITUDE 36.928593°, LONGITUDE -108.149877°

Dear Mr. Long:

Souder, Miller and Associates (SMA) has compiled the following BGT Registration Packet including Form C-144 in Accordance with the NMOCD Pit Rules per 19.15.17 NMAC. The tank is located at latitude 36.928593°, longitude -108.149877° within the fenced area of the McDermott Compressor Station. Tank information is presented in Table 1.

Table 1: Tank Information				
Name	McDermott Compressor Station Tank #5			
Location	Latitude/Longitude		Section, Township, Range	
	36.928593°	-108.149877°	SE ¼ / NE ¼ Unit H Section 1	T31N R13W
Date of Site Visit	11-Nov-15			
County	San Juan			
Land Owner	BLM			
Tank Capacity	250 Gallon – (on EPCO SPCC Tank List)			
Tank Dimensions	Unknown			
Tank Serial Number (If Available)	Unknown			
Tank Contents	Waste Oil, skid drain fluids, antifreeze, wash down water			
Tank Construction Notes	Fiberglass double wall tank with level detection and riser pipe in annular space for monthly monitoring			
Tank Operation Notes	Tank is inspected monthly			

Siting Criteria (19.15.17.10 NMAC)

The below-ground tank (BGT) is located at the McDermott Compressor Station at an elevation of 5805 feet above mean sea level (amsl). The BGT meets all siting criteria listed in 19.15.17.10 NMAC with the exceptions for which variances are requested.

Depth to groundwater at the site is estimated to be about 30 feet below ground surface (bgs). This data is supported by NMOCD approved pit closure documents in the nearby wells API# 3004529214 (Moseley 1 #1) and API# 3004522125 (Federal 1 #1). This data is further supported by elevation differences between the site and the base of the nearby McDermott Arroyo. Local topography and proximity to adjacent water features also support this depth to groundwater. The BGT base is estimated at 4 feet bgs. Because the BGT base is thus estimated to be greater than 25 feet above the ground water level, a variance is not being requested for this siting criterion.

Figure 1 shows the vicinity of the BGT location and the location of the nearby OSE Wells. The base layer of Figure 1 is the ESRI provided Imagery Topo Map[3] and includes USGS Blue Lines[4]. An aerial imagery map of the site is provided as Figure 2 which shows the vicinity of the BGT with 500' and 1000' buffers. Figure 3 demonstrates the BGT is not located within 100 feet of any continuous flowing watercourse, any other significant watercourse, sinkhole, lakebed, wetlands or playa lake as measured from the ordinary high water mark[5], or within 200 feet of a spring or freshwater well used for public or livestock consumption, as indicated by the aerial photo[6] and iWaters map layers[2], or within 300 horizontal feet of any permanent residences, schools, hospitals, institutions or churches.

The BGT subject to the attached application for registration under 19.15.17 NMAC is located within the McDermott Compressor Station boundaries and was in existence prior to the promulgation of 19.15.17 NMAC. A review of the best available data and a visual inspection of the siting criteria of 19.15.17 NMAC specific to the BGT in question demonstrate that the BGT does not appear to pose a threat to fresh water, public health or the environment.

Local Geology and Hydrology

The McDermott Compressor Station is located about 2.0 miles east of the La Plata River, approximately 2.2 miles east of La Plata, New Mexico. The Compressor Station is located on an eroded surface of sandstone, shales and conglomerates belonging to the Paleocene Nacimiento Formation[7].

The bluffs to the west of the compressor station are between 300 and 900 feet higher in elevation and are composed mostly of medium-grained mixed clastic rocks belonging to the Eocene San Jose Formation[8].

Groundwater is most conservatively estimated to be about 30 feet bgs (5775 feet amsl) at this site, based on the following documentation:

- NMOCD API# 3004529214, Moseley 1 #1, pit closure reports depth to groundwater at less than 10 feet bgs. This well is located 0.27 miles northwest of the BGT, in a geologic and hydrologic regime very similar to the BGT location at an elevation of 5785 feet amsl. The difference in elevation allows a depth to groundwater estimate of 30 feet bgs.
- NMOCD API# 3004522125 (Federal 1 #1), pit closure reports depth to groundwater between 50 to 100 feet bgs. This well is located 0.23 miles south of the BGT, in a geologic and hydrologic regime very similar to the BGT location at an elevation of 5783 feet amsl. The difference in elevation allows a depth to groundwater estimate of 72 feet bgs.
- Using the New Mexico Oil and Gas Association (NMOGA) differential method for "surface drainage influenced groundwater", depth to groundwater is estimated to be 58 feet bgs[2]. The elevation of the McDermott Arroyo, at its closest location to the BGT, is 58 feet below the BGT at 5747 feet amsl.

Regional Geology and Hydrology

The San Juan Basin is located in the Navajo section of the Colorado Plateau and is characterized by broad open valleys, mesas, buttes and hogbacks. Away from major valleys and canyons, topographic relief is generally low. Native vegetation is sparse and shrubby consisting primarily of desert scrub (sage and chamisa) in the lower elevations and juniper and piñon in the higher elevations. Drainage of the San Juan Basin is by the San Juan River and its associated tributaries, including the La Plata and the Animas Rivers. The San Juan River is a tributary of the Colorado River. The climate is arid to semi-arid with an average annual precipitation of 8 to 10 inches. Soils within the basin consist of physically weathered parent rock. Aeolian depositional systems are responsible for a majority of the material transport in the San Juan Basin, fluvial systems are also present though less predominant[10].

The primary aquifers in the San Juan Basin are contained in Cretaceous and Tertiary sandstones, as well as Quaternary Alluvial Deposits[10]. The Nacimiento Formation of Paleocene age occurs at the surface in a broad belt at the western and southern edges of the central San Juan Basin and dips beneath the San Jose Formation in the center. The lower part of the Nacimiento Formation is composed of interbedded black carbonaceous mudstones and white coarse grained sandstones. The upper part is comprised of mudstones and sandstones. Shales and conglomerates are often interbedded within the mudstones and sandstones, but they are not the primary rock type. The Nacimiento Formation is generally slope forming, even in the sandstone units. Thickness of the Nacimiento ranges from 418 to 2232 feet[11]. Aquifers within the coarser and continuous sandstone bodies of the Nacimiento Formation are between 0 and 1000 feet deep in this section of the basin. Wells within these bodies flow from 16 to 100 gallons per minute (gpm) and transmissivities are expected to be 100 ft^2/d. Groundwater within these units flows towards the San Juan River[10].

If there are any questions regarding this report, please contact myself or Reid Allan at 505-325-7535.

Sincerely,
Souder, Miller & Associates

Jesse E Sprague
Staff Scientist

Reid S. Allan
Principal Scientist

FIGURES:
Figure 1 – Vicinity Map
Figure 2 – Site Map with 500' and 1000' buffers
Figure 3 – Site Map with 100', 200' and 300' buffers

ATTACHMENTS:
Form C-144
Variance Request
Tank Diagrams
Operation and Maintenance Plan
Depth to Groundwater Documentation

References

[2]Office of the State Engineer (OSE) Water Administrative Technical Engineering Resource System (WATERS), September 4, 2015. *"Water Wells – 2015 – OSE"*, released September, 2015. http://gstore.unm.edu/apps/rgis/datasets/6925a8e3-6f8d-4334-a15e-bf95a11fdaaa/OSE_Wells_May_2015.original.zip

[3]ESRI ArcGIS Online, *"USGSImageryTopo"*, August, 2013. The USGS Imagery Topo base map service from The National Map is a combination of imagery and contours, along with vector layers, such as geographic names, governmental unit boundaries, hydrography, structures, and transportation, to provide a composite base map that resembles the US Topo product. Vector data sources are the National Atlas for small scales, and The National Map for medium to large scales. Imagery data sources are Blue Marble: Next Generation at small scales and NAIP at large scales, with Global Land Survey (Landsat) imagery for medium scales that lack NAIP coverage. Coordinate System: Web Mercator Auxiliary Sphere (WKID 102100) http://www.arcgis.com/home/item.html?id=c641cc5c41d44faba509959748098471

[4]New Mexico Oil and Gas Association Training Manual for 19.15.17 NMAC (Pit Rule) *"NMOGA & NMOCD Pit Rules Training.pdf"* State of New Mexico, October 17, 2014.

[5]National Wetlands Inventory, September 2002. *"San Juan Wetland/Riparian Project"*, R02Y02P01 San Juan, NMRGIS geodatabase. http://rgis.unm.edu/gstore/datasets/757361ef-2000-4f2a-aff8-15fa0a8bd5db/nwi_san_juan_02.original.zip

[6]Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community. November 2015 *"World Imagery"*, Coordinate System: Web Mercator Auxiliary Sphere (WKID 102100) http://server.arcgisonline.com/arcgis/services/World_Imagery/MapServer

[7]Green, Gregory N., Jones, Glen E., 2009. *"Digital Geologic Map of New Mexico – Formations"* http://gstore.unm.edu/apps/rgis/datasets/51349b33-92eb-4ab8-9217-81c82b5c3afa/nmmapdd83shp.original.zip

[8]USGS Mineral Resources On-Line Spatial Data, Green, G.N., and Jones, G.E., 1997, The Digital Geologic Map of New Mexico in ARC/INFO Format: U.S. Geological Survey Open-File Report 97-0052, 9p. http://pubs.er.usgs.gov/publication/ofr9752 http://mrdata.usgs.gov/geology/state/state.php?state=NM

[9]Source: "McDermott Compressor Station and Wash Elevations" 36.928593° N, -108.149877 ° W. Google Earth. May 2, 2013. November 28, 2015. Elevation Datum: NAVD27.

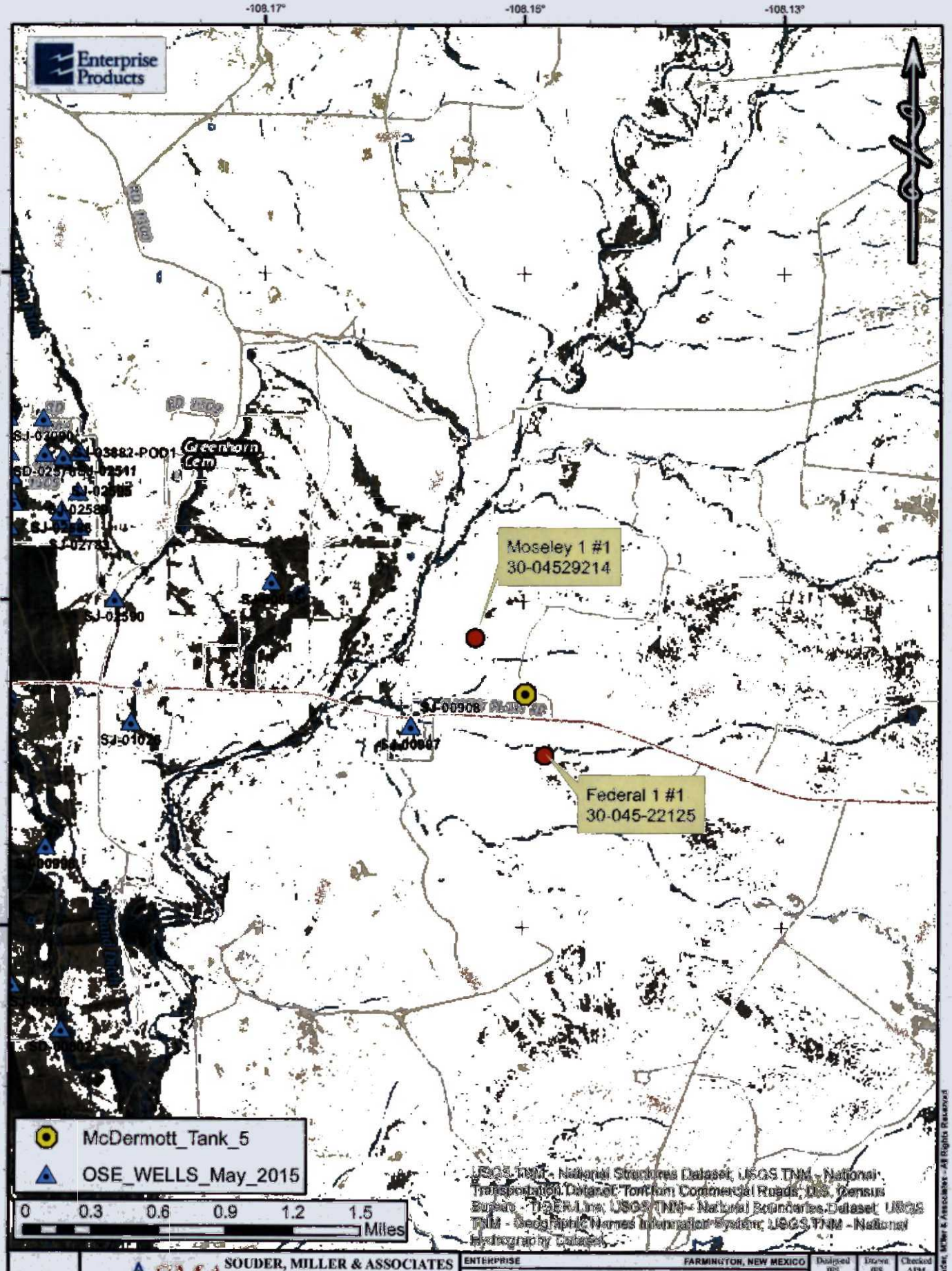
[10] Stone, et.al., 1983, Hydrogeology and Water Resources of the San Juan Basin, New Mexico, Socorro, New Mexico Bureau of Mines and Mineral Resources Hydrologic Report 6.

[11]Kelley, et. Al., 2014, Hydrologic Assessment of Oil and Gas Resource Development of the Mancos Shale in the San Juan Basin, New Mexico. Open-File Report 566, New Mexico Bureau of Mines and Mineral Resources.

McDermott Compressor Station, Tank #5 Variance Request

Enterprise requests a variance for the items listed below. The requested variances, per 19.15.17.15A, provide equal or better protection of fresh water, public health and the environment.

1. Signage
    - BGT is located within a facility signed appropriate to NMAC 20.2.70, Title V General Construction Permit. The sign is legible and contains the operator's name, the location of the compressor station in decimal degrees and township section and range, and emergency contact telephone numbers. Additional signage relevant to the Title V air quality permit is also present and provides equal or better protection of fresh water, public health and the environment.
2. 2008 Pit Rules
    - McDermott Compressor Tank #5 was installed prior to the 2008 pit rules. The BGT does not pose an imminent threat to the protection of fresh water, public health or the environment.



SOUDER, MILLER & ASSOCIATES
401 West Broadway Avenue
Farmington, NM 87401-5907
Phone (505) 325-7535 Toll-Free (800) 519-3098
www.soudermiller.com

ENTERPRISE — FARMINGTON, NEW MEXICO

MCDERMOTT COMPRESSOR STATION TANK 5
AUGUST, 2016
SITE VICINITY MAP
SECTION 1, T31N, R10W
SAN JUAN COUNTY, NEW MEXICO

Designed	Drawn	Checked
JES	JES	APM

DATE: AUGUST 2016
PROJECTION: WGS 1984
PROJECT NO: 5124215
FIGURE: 1

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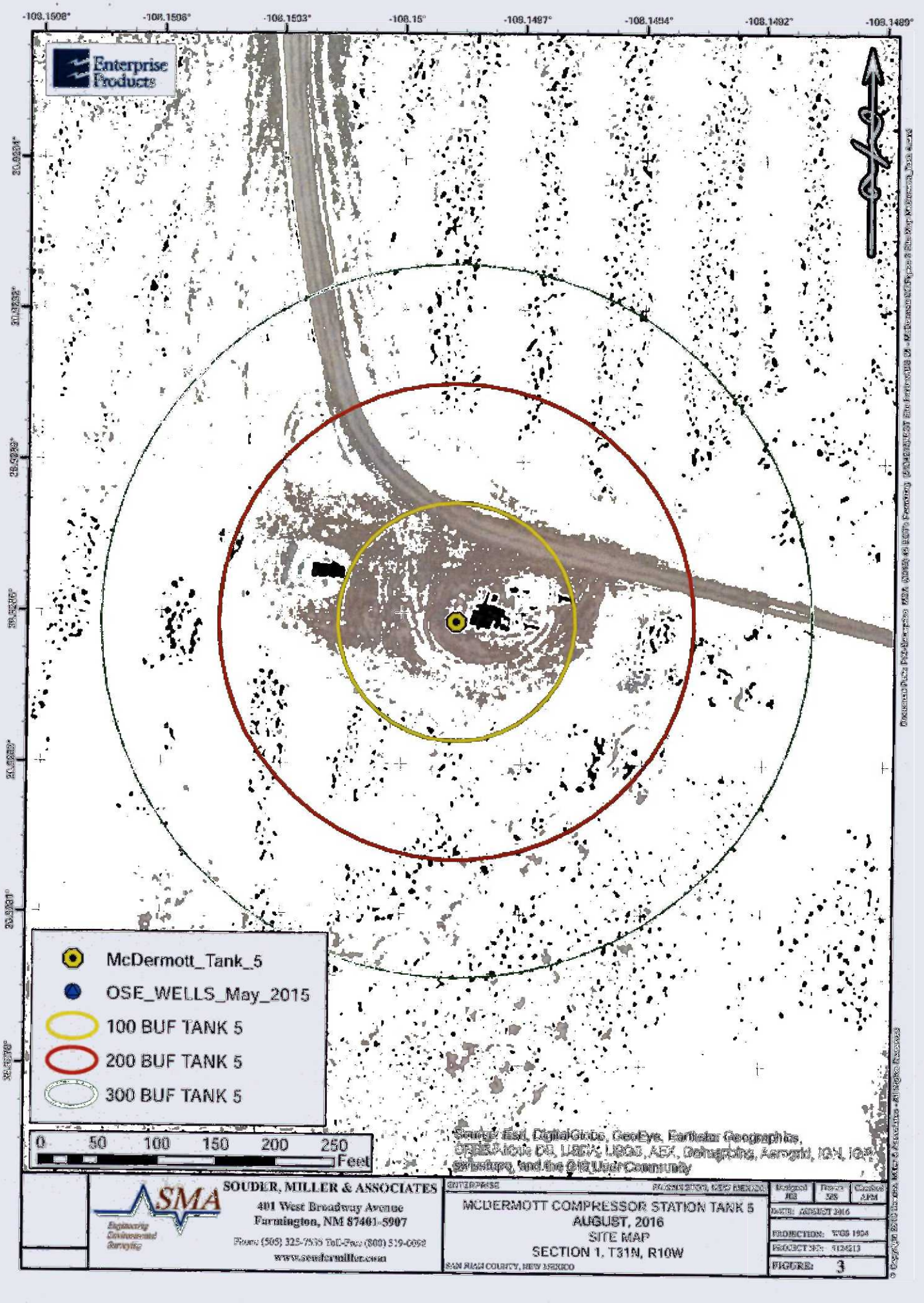
Farmington, NM 87401-5907
Phone (505) 325-7535 Toll-Free (800) 519-0098
www.soudermiller.com

ENTERPRISE — FARMINGTON, NEW MEXICO

MCDERMOTT COMPRESSOR STATION TANK 5
AUGUST, 2016
SITE MAP
SECTION 1, T31N, R13W
SAN JUAN COUNTY, NEW MEXICO

Designed	Drawn	Checked
JES	JES	AFM

DATE: AUGUST 2016
PROJECTION: WGS 1984
PROJECT NO: 5124213
FIGURE: 2



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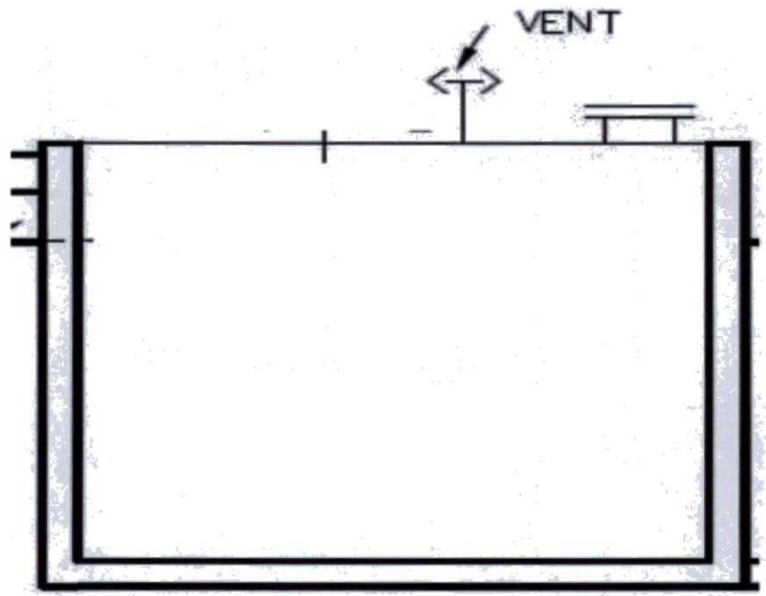
ENTERPRISE — FARMINGTON, NEW MEXICO

MCDERMOTT COMPRESSOR STATION TANK 5
AUGUST, 2016
SITE MAP
SECTION 1, T31N, R10W
SAN JUAN COUNTY, NEW MEXICO

Designed	Drawn	Checked
JES	SES	AWM

DATE: AUGUST 2016
PROJECTION: WGS 1984
PROJECT NO: 124213
FIGURE: 3

Below Grade Tank Diagram
McDermott Compressor Station Tank #5



Enterprise Field Services, LLC
Existing Buried Double-Wall Steel Tank(s)
San Juan Basin - Below Grade Tank(s)
Design and Construction Plan

In accordance with Rule 19.15.17 NMAC, the following plan describes the general design and construction of the Below Grade Tank(s) (BGT) using double-wall steel tanks at Enterprise Field Services, LLC (Enterprise) facilities in the San Juan Basin of New Mexico.

Plan requirements:

1. The existing BGT(s) is/are located within a facility signed appropriately to NMAC 20.2.70, Title V General Construction Permit requirements. The sign is legible and contains the operator's name, the location of the compressor station in decimal degrees and township section and range, and emergency contact telephone numbers. Additional signage relevant to the Title V air quality permit is also present and provides equal or better protection of fresh water, public health and the environment than the 19.15.17.11 NMAC Subsection C signage requirement.

2. The existing BGT(s) is/are located within a facility with a minimum six foot high chain link fence topped with barbed or razor wire which provides equal or better protection of fresh water, public health and the environment than the 19.15.17.11 NMAC Subsection D fencing requirement.

3. The existing BGT(s) has/have an enclosed double wall steel top which provides equal or better protection of fresh water, public health and the environment than the 19.15.17.11 NMAC Subsection E netting requirement.

4. The existing BGT(s) foundation(s) is/are level and free of rocks, debris, sharp edges or irregularities and has compacted bottom and sidewalls that are stable for the soil conditions.

5. The existing BGT(s) is/are protected from rainwater run-on because the top of the BGT(s) is a minimum of six inches above the ground surface.

6. The existing BGT(s) is steel double-wall and bottom equipped with an Electronic Flow Meter (EFM) to monitor high liquid levels and automatically shuts off liquid discharges to prevent overflows. The annulus between the double walls is also monitored and inspected monthly.

Operational Plan

NMAC 19.15.17.12

OPERATIONAL REQUIREMENTS

Enterprise will operate and maintain the below-grade tank to contain liquids and solids and maintain the secondary containment system to prevent contamination of fresh water and protect public health and the environment.

Enterprise shall not discharge into or store any hazardous waste in the below-grade tank.

If the below-grade tank develops a leak, Enterprise shall remove all liquid above the damage or leak within 48 hours of discovery, notify the appropriate division office and repair the damage or replace the below-grade tank as applicable per 19.15.29 NMAC.

Enterprise shall operate and install the below-grade tank to prevent the collection of surface water run-on.

Enterprise shall not allow a below-grade tank to overflow or allow surface water run-on to enter the below-grade tank.

Enterprise shall remove any measurable layer of oil from the fluid surface of a below-grade tank.

Enterprise shall inspect the below-grade tank for leakage and damage at least monthly.

Enterprise shall document the integrity of each tank at least annually and maintain a written record of the integrity for five years.

Enterprise shall maintain adequate freeboard to prevent overtopping of the below-grade tank.

CLOSURE REQUIREMENTS

Enterprise shall not commence closure without first obtaining approval of the closure plan submitted with the permit application or registration pursuant to 19.15.17.13 NMAC.

Enterprise shall close the below-grade tank by first removing all contents and transferring the materials to a division approved facility.

Enterprise shall test the soils beneath the below-grade tank as follows:

A minimum of one composite sample to include any obvious stained or wet soils, or other evidence of contamination shall be collected from under the below-grade tank and the sample shall be analyzed for the identified constituents with respective concentrations listed in Table I of 19.15.17.13 NMAC below.

Table I
Closure Criteria for Soils Beneath Below-Grade Tanks, Drying Pads Associated with Closed-Loop Systems and Pits where Contents are Removed

Depth below bottom of pit to groundwater less than 10,000 mg/l TDS	Constituent	Method*	Limit**
≤50 feet	Chloride	EPA 300.0	600 mg/kg
	TPH	EPA SW-846 Method 418.1	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8015M	10 mg/kg
51 feet-100 feet	Chloride	EPA 300.0	10,000 mg/kg
	TPH	EPA SW-846 Method 418.1	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8015M	10 mg/kg
> 100 feet	Chloride	EPA 300.0	20,000 mg/kg
	TPH	EPA SW-846 Method 418.1	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8015M	10 mg/kg

*Or other test methods approved by the division
**Numerical limits or natural background level, whichever is greater
*** Or Method 8015 with GRO, DRO, & MRO

If any contaminant concentration is higher than the above parameters, the division may require additional delineation upon review of the results and Enterprise must receive approval before proceeding with closure.

If all contaminant concentrations are less than or equal to the parameters listed above, Enterprise can proceed to backfill the excavation with non-waste containing, uncontaminated, earthen material.

CLOSURE NOTICE

Enterprise shall notify the appropriate division district office verbally, and in writing, at least 72 hours, but not more than one week, prior to any closure operation. The notice shall include the Enterprise name and the location to be closed, including the unit letter, section, township, and range.

Enterprise shall notify the surface owner by certified mail (return receipt requested) that Enterprise plans closure operations at least 72 hours, but not more than one week, prior to any closure operation. Evidence of mailing of the notice to the address of the surface owner shown in the county tax records is sufficient to demonstrate compliance with this requirement.

CLOSURE REPORT AND BURIAL IDENTIFICATION

Within 60 days of closure completion, Enterprise shall submit a closure report on form C-144, with necessary attachments to document all closure activities including sampling results, information required by 19.15.17 NMAC, and details on back-filling, capping and covering, where applicable. In the closure report, Enterprise shall certify that all information in the report and attachments is correct and that Enterprise has complied with all applicable closure requirements and conditions specified in the approved closure plan.

TIMING REQUIREMENTS FOR CLOSURE

Within 60 days of cessation of operations, Enterprise shall remove liquids and sludge from a below-grade tank prior to implementing a closure method and shall dispose of the liquids and sludge in a division-approved facility.

Within six months of cessation of operations, Enterprise shall remove the below-grade tank and dispose of it in a division-approved facility or recycle, reuse, or reclaim it in a manner that the appropriate division district office approves. If there is any equipment associated with a below-grade tank, Enterprise shall remove the equipment, unless the equipment is required for some other purpose.

SOIL COVER DESIGNS FOR BELOW-GRADE TANKS

The soil cover for closures after site contouring (where Enterprise has removed the below-grade tank and, if necessary, remediated the soil beneath the below-grade tank to chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0) shall consist of the background thickness of topsoil or one foot of suitable material, whichever is greater.

Enterprise shall construct the soil cover to the site's existing grade and prevent ponding of water and erosion of the cover material.

RECLAMATION AND RE-VEGETATION

RECLAMATION OF AREAS NO LONGER IN USE

All areas disturbed by the closure of the below-grade tanks, except areas reasonably needed for production operations or for subsequent drilling operations, shall be reclaimed as early and as nearly as practicable to their original condition or their final land use and shall be maintained to control dust and minimize erosion to the extent practicable.

Enterprise shall replace topsoils and subsoils to their original relative positions and shall be contoured to achieve erosion control, long-term stability and preservation of surface water flow patterns. The disturbed area then shall be reseeded in the first favorable growing season following closure of the below-grade tank.

Reclamation of all disturbed areas no longer in use shall be considered complete when all ground surface disturbing activities at the site have been completed, and a uniform vegetative cover has been established that reflects a life-form ratio of plus or minus fifty percent (50%) of pre-disturbance levels and a total percent plant cover of at least seventy percent (70%) of pre-disturbance levels, excluding noxious weeds.

OTHER REGULATORY REQUIREMENTS

The re-vegetation and reclamation obligations imposed by other applicable federal or tribal agencies on lands managed by those agencies shall supersede these provisions and govern the obligations of any operations subject to those provisions, provided the other requirements provide equal or better protection of fresh water, human health and the environment.

Enterprise shall notify the division when reclamation and re-vegetation are complete.

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

Form C-144
July 21, 2008

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.

2300 Amended

Pit, Closed-Loop System, Below-Grade Tank, or 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: Four Star Oil and Gas Company OGRID #:

Address: 15 Smith Road, Midland TX 79705

Facility or well name: Moseley 1 # 002

API Number: 30-045-33472 OCD Permit Number:

U/L or Qtr/Qtr: F Section 1 Township 31N Range 13W County: San Juan

Center of Proposed Design: Latitude: 36° 55.929' N Longitude 108° 09.534' W NAD: ☐ 1927 ☒ 1983

Surface Owner: ☐ Federal ☐ State ☒ Private ☐ Tribal Trust or Indian Allotment

2

☒ **Pit:**

RCVD JUL 27'12
OIL CONS. DIV.
DIST. 3

Temporary: ☒ Drilling ☐ Workover

☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A

☒ Lined ☐ Unlined Liner type: Thickness 12 mil ☐ LLDPE ☒ HDPE ☐ PVC ☐ Other

☐ String-Reinforced

Liner Seams: ☐ Welded ☒ Factory ☐ Other Volume: 5340 bbl Dimensions: L 150 x W 25 x D 8

3.

☐ **Closed-loop System:**

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: Thickness mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other:

Liner Seams: ☐ Welded ☐ Factory ☐ Other

RECEIVED
OCT 2008
OIL CONS. DIV. DIST. 3

4.

☐ **Below-trade tank:**

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: mil ☐ HDPE ☐ PVC ☐ Other:

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.

6.

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, institution or church)*

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

☐ Alternate. Please specify_____

7.

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)

8.

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.

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

10.

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 acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. **Siting criteria does not apply to drying pads or above-grade tanks associated with a closed-loop system.**

Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - 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. *(Applies to temporary, emergency, or cavitation pits and below-grade tanks)* - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No ☐ NA
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. *(Applies to permanent pits)* - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No ☐ NA
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	☐ 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

11.
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 19.15.17.11 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: _____ or Permit Number: _____

12.
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
- ☐ Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Nuisance or Hazardous Odors, including H_2S, 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

14.
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)

15.
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.D NMAC)
Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more than two facilities are required.

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 service and operations?
☐ Yes (If yes, please provide the information below) ☐ No

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 I of 19.15.17.13 NMAC
☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

17.
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 may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.

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 ☐ NA
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 ☐ NA
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Within 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

18.
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 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 19.15.17.11 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 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 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 I of 19.15.17.13 NMAC
☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

19.
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 belief.

Name (Print): Shawn Davis Title: Waste and Water Specialist

Signature: Shawn Davis Date: October 30, 2008

Email Address: sdkf@chevron.com Telephone: 281-561-4977

20.
OCD Approval: ☐ Permit Application (including closure plan) ☒ Closure Plan (only) ☐ OCD Conditions (see attachment)

OCD Representative Signature: Jonathan D. Kelly Approval Date: 7/30/2012

Title: Compliance Officer OCD Permit Number:

21.
Closure Report (required within 60 days of closure completion): Subsection K of 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: 7-30-2008

22.
Closure Method:
☒ Waste Excavation and Removal ☐ On-Site Closure Method ☐ Alternative Closure Method ☐ Waste Removal (Closed-loop systems only)
☐ If different from approved plan, please explain.

23.
Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:
Instructions: Please indentify the facility or facilities for where the liquids, drillingfluids and drill cuttings were disposed Use attachment if more than two facilities were utilized

Disposal Facility Name: Enrirotech's Landfarm # 2 Disposal Facility Permit Number: NM-01-0011

Disposal Facility Name: Disposal Facility Permit Number:

Were the closed-loop system operations and associated activities performed on or in areas that *will not* be used for future service and operations?

☐ Yes (If yes, please demonstrate compliance to the items below) ☐ No

Required for impacted areas which will not be used for future service and operations:
☐ Site Reclamation (Photo Documentation)
☐ Soil Backfilling and Cover Installation
☐ Re-vegetation Application Rates and Seeding Technique

24
Closure Report Attachment Checklist: ***Instructions: Each of the following items must be attached to the closure report Please indicate, by a check 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-site closure)
☒ 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: Longitude: NAD: ☐ 1927 ☐ 1983

25.
Operator Closure Certification:
I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.

Name (Print): Shawn Davis Title: Waste and Water Specialist

Signature: Shawn Davis Date: 10/30/08

e-mail address: sdkf@chevron.com Telephone: 281-561-4977

PLOT PLAN

Field Report BGT/Pit Closure Verification

PAGE NO: 1 OF 1

ENVIROTECH INC

ENVIRONMENTAL SCIENTISTS & ENGINEERS
5796 U.S. HIGHWAY 64 - 3014
FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615

ENVIRONMENTAL SPECIALIST: GWC

DATE STARTED: 7/9/08
DATE FINISHED: 7/9/08

LAT: 36° 55.929
LONG: 108° 09.636

FIELD REPORT: BGT / PIT CLOSURE VERIFICATION

LOCATION: NAME: Moseley 1 #2 WELL #: 2 TEMP PIT: X PERMANENT PIT: BGT:
LEGAL ADD: UNIT: SE NW SEC: 1 TWP: 31 N RNG: 13 W PM: NMPM
QTR/FOOTAGE: CNTY: San Juan ST: NM

EXCAVATION APPROX: FT. X FT. X FT. DEEP CUBIC YARDAGE:
DISPOSAL FACILITY: REMEDIATION METHOD:
LAND OWNER: API: 30-045-33572 BGT / PIT VOLUME:
CONSTRUCTION MATERIAL: HDPE DOUBLE-WALLED, WITH LEAK DETECTION:

LOCATION APPROXIMATELY: 50' FT. 930° FROM WELLHEAD
DEPTH TO GROUNDWATER: < 10'

X TEMPORARY PIT - GROUNDWATER 50-100 FEET DEEP
BENZENE ≤ 0.2 mg/kg, BTEX ≤ 50 mg/kg, GRO & DRO FRACTION (8015) ≤ 500 mg/kg, TPH (418.1) ≤ 2500 mg/kg, CHLORIDES ≤ 500 mg/kg

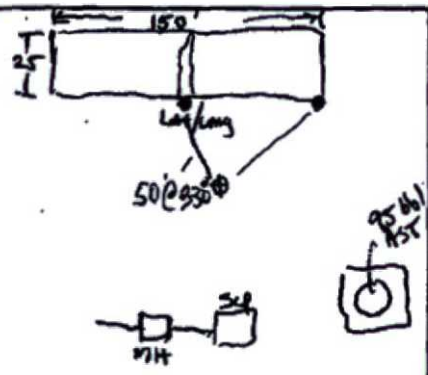
___ TEMPORARY PIT - GROUNDWATER ≥100 FEET DEEP
BENZENE ≤ 0.2 mg/kg, BTEX ≤ 50 mg/kg, GRO & DRO FRACTION (8015) ≤ 500 mg/kg, TPH (418.1) ≤ 2500 mg/kg, CHLORIDES ≤ 1000 mg/kg

___ PERMANENT PIT OR BGT
BENZENE ≤ 0.2 mg/kg, BTEX ≤ 50 mg/kg, TPH (418.1) ≤ 100 mg/kg, CHLORIDES ≤ 250 mg/kg

FIELD 418.1 ANALYSIS

TIME	SAMPLE I.D.	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. (mg/kg)
	200 STD						
		1					
		2					
		3					
		4					
		5					
		6					

PERIMETER



FIELD CHLORIDES RESULTS

SAMPLE ID	READING	CALC. (mg/kg)

PID RESULTS

SAMPLE ID	RESULTS (mg/kg)

PROFILE

LAB SAMPLES

SAMPLE ID	ANALYSIS	RESULTS
	BENZENE	
	BTEX	
	GRO & DRO	
	CHLORIDES	

NOTES:

WORKORDER #: WHO ORDERED

SOIL BACKFILLING AND COVER INSTALLATION

Clean Fill Bills of Lading

Backfill and Cover Installation (Moseley 1 #002):

Clean virgin backfill was purchased from Envirotech's NMOCD Permitted Landfarm #2 and transported to the site; ***see Bills of Lading***. Approximately 1310 cubic yards of contaminated soil were removed and replaced with approximately 1310 cubic yards of clean fill. The clean soil was added to the excavated area. . The site was capped using native soil that was excavated to construct the temporary pit.

RE-VEGETATION APPLICATION RATES AND SEEDING TECHNIQUE

Crossfire Seeding Typical Right of Way/Location Reclamation.

Crossfire Seeding
Typical Right of Way/Location Reclamation

I. Walk Through
- Discussion of site specific BMP's

II. Soil Preparation
- Rip all areas of compaction where necessary and possible
- Disc ROW twice to prepare seedbed and to reduce the berm left over the pipe to minimize water channeling

III. Seeding
- Drill specified seed mix at required rate on all areas where possible
- Broadcast or hydroseed area that are too steep for drill seeding (When seed is broadcast or hydroseed, the seed rate is doubled)

IV. Mulching
- Certified Weed Free Straw is applied at a minimum of 2 tons per acre
- Straw is mechanically crimped into soil in all areas where terrain permits
- Straw is tacked in place where it cannot be crimped using 200 lbs of plantago based tackifier per acre. Tackifier is applied using a hydroseeder
- Hydromulch is used on areas where straw is impractical. When hydromulching, the seed is either applied by broadcasting or hydraulically using a hydroseeder then mulch is applied using 2500-3500 lbs/acre of 100% thermally refined wood mulch and 200lbs of a Plantago based tackifier per acre.

V. Erosion Control Blankets
- Seed is applied using a hydroseeder, broadcast and harrowed or raked prior to blanket installation
- SR2 or equivalent double netted excelsior or straw blankets are installed to manufacture specifications and site specific BMP's
- Blankets are maintained and/or replaced as necessary

VI. Wattles
- 9" excelsior wattles are installed where directed by site specific BMP's
- Wattles are maintained and/or replaced as necessary

Arthur R. Boehm
Senior Land
Representative

Mid Continent SBU
Chevron U.S.A. Inc.
PO BOX 36366
Houston, TX 77236
Tel: 281-561-4880
Fax: 281-561-3576
aboehm@chevron.com

October 15, 2008

Montoya Sheep & Cattle Company, Inc.
P.O. Box 120
La Plata, NM 87410

RE: Notice Required Under NM Pit Rule 19.15.17 NMAC
Mosley #1-2 Well Drilling Pit Closure
Case No: 14015
Order No: R-12939

Gentlemen:

Pursuant to the newly adopted New Mexico Pit Rules as found in Chapter 19.15.17 NMAC, as ordered by the New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division, this letter is to advise you as the Owner of the surface of the land upon which the Mosley #1-2 well has been drilled, that Chevron Midcontinent L.P., (CHEVRON) has pursuant to the requirements of the New Mexico Pit Rule cleaned up and restored the drilling pit used for the drilling and testing of the Mosley #1-2 well. The required environmental information and closure plan and all tests relating to the soil has been forwarded to the appropriate State Agency for their review and retention.

Should you require any additional information regarding this closure please feel free to contact Mr. Shawn Davis at 281-561-4977.

Sincerely,

Arthur R. Boehm, Jr.
Senior Land Representative.

Shawn Davis
Environmental Specialist
Chevron USA
11111 S. Wilcrest
Houston, TX 77099

Project No.92270-0269

Phone: (281) 561-4977
Cell: (713) 822-4162

October 16, 2008

Mr. Brandon Powell
New Mexico Oil Conservation Division
1000 Rio Brazos Road
Aztec, NM 87410

Phone: (505) 334-6178 ext. 15

RE: **SAMPLING AND CLOSURE OF A DRILL PIT LOCATED AT THE MOSELEY 1 #002 WELL SITE, SAN JUAN COUNTY, NEW MEXICO**

Dear Mr. Powell,

Envirotech has completed the sampling of a drill pit located at the Moseley 1 #002 well site, San Juan County, New Mexico. Closure was completed by a third party. Attached to this letter are the field analysis and the C-144 pit closure documentation.

Closure of this drill pit has followed the recently approved "Pit Rules" with the exception of prior approval of the closure plan, due to this process beginning prior to the new rule being in place.

A sample was collected of the material inside the drill pit, and analyzed for DRO/GRO fraction via USEPA Method 8015, TPH via USEPA Method 418.1, Benzene and BTEX via USEPA Method 8021, and Chlorides at Envirotech's Laboratory. The material was then removed and transported to Envirotech's Landfarm #2, Hilltop, New Mexico. An additional sample was collected from under the liner once all material was removed. This sample was analyzed for the same parameters as above.

The sample collected from below the liner was below the New Mexico Regulatory Standards for a temporary pit greater than 100 feet from groundwater, of less than 0.2 ppm benzene, 50 ppm Benzene, Toluene, Ethylbenzene, and Xylene (BTEX), 500 ppm DRO/GRO fraction, 2500 ppm Total Petroleum Hydrocarbons (TPH), and 1000 ppm Chlorides.

Attached to this document are the Plot Plan, Confirmation Sampling results, Disposal facility Bills of Lading, Backfill and cover plan with clean fill Bills of Lading, the Re-vegetation Application Rates and Seeding Technique, and the notice of closure letter to the land owner.

Based on the results from the sampling at the Mosley 1 #002 well site, Chevron has completed closures as per current regulations. Chevron would like to request a no further action determination be given for this drill pit. If you have any questions or concerns, please do not hesitate to contact me.

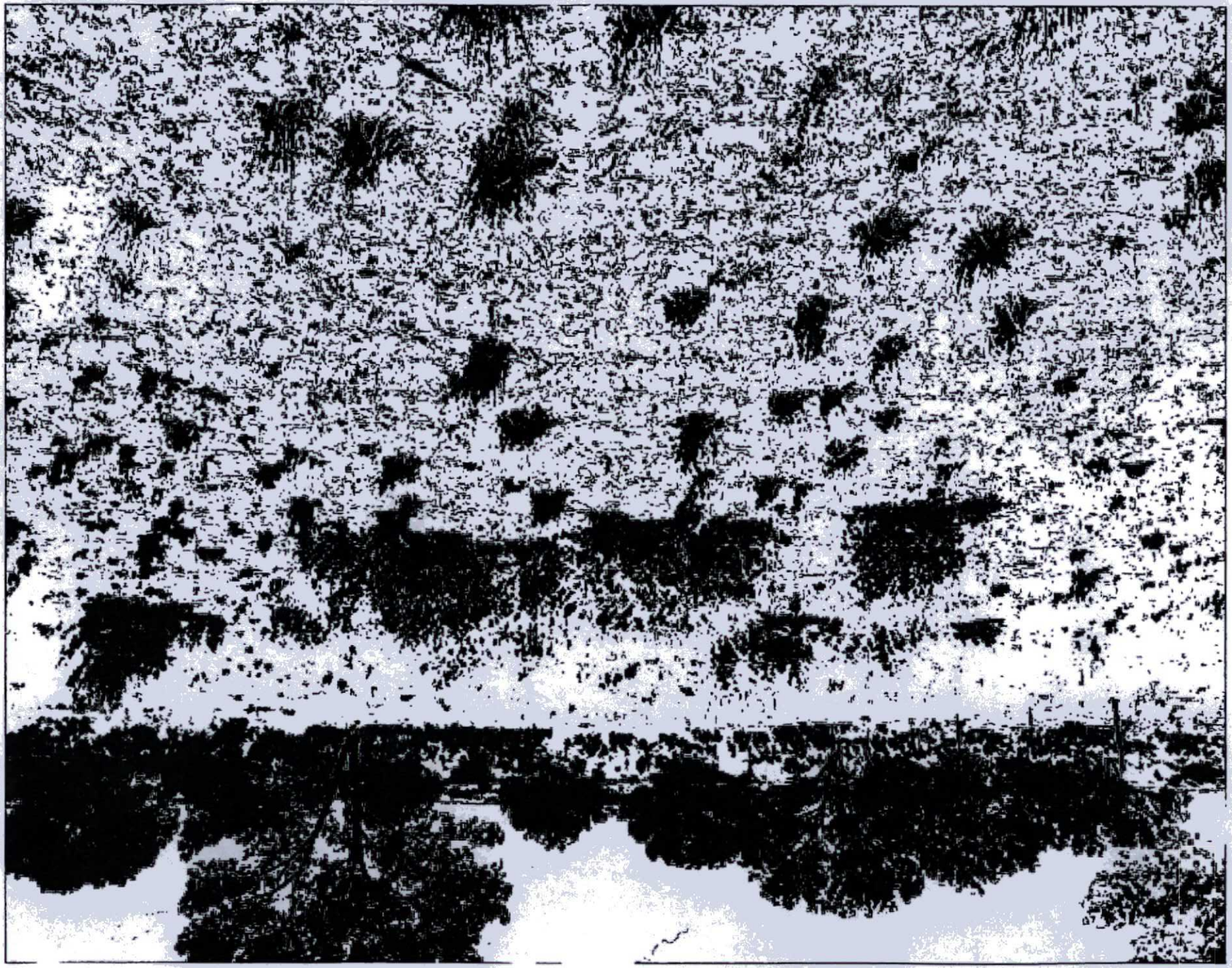
Sincerely,

Shawn Davis

Shawn Davis
Chevron North America
Exploration & Production Company

Enclosures: C-144
Field Notes
Laboratory Analytical Results
Certificate of Waste
Bills of Lading
Re-vegetation Application Rates & Seeding Technique

Notice of Closure to Land Owner



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

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-144
June 1, 2004

For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe office

Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tank covered by a "general plan"? Yes ☒ No ☐
Type of action: Registration of a pit or below-grade tank ☐ Closure of a pit or below-grade tank ☒

Operator: Chevron USA Telephone: (432) 687-7123 e-mail address: bailerg@chevron.com
Address: 15 Smith Road, Midland, TX 79705
Facility or well name: Federal 1 #1 API #: 30-045-22125 U/L or Qtr/Qtr I Sec 1 T 31 N R 13W
County: San Juan Latitude 36.92545 Longitude -108.14803 NAD: 1927 ☒ 1983 ☐
Surface Owner: Federal ☒ State ☐ Private ☐ Indian ☐

RCVD DEC 20 '07
OIL CONS. DIV.
DIST. 3

Pit	Below-grade tank		
Type: Drilling ☐ Production ☒ Disposal ☐ Workover ☐ Emergency ☐ Lined ☐ Unlined ☒ Liner type: Synthetic ☐ Thickness Clay ☐ Pit Volume ____ bbl	Volume: ___ bbl Type of fluid: Construction material: Double-walled, with leak detection? Yes ☐ If not, explain why not.		
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)	Less than 50 feet 50 feet or more, but less than 100 feet 100 feet or more	(20 points) (10 points) (0 points)	10
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)	Yes No	(20 points) (0 points)	0
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet 200 feet or more, but less than 1000 feet 1000 feet or more	(20 points) (10 points) (0 points)	0
	Ranking Score (Total Points)		10

If this is a pit closure: (1) Attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if your are burying in place) onsite ☐ offsite ☒ If offsite, name of facility Envirotech's Landfarm #2. (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No ☒ Yes ☐ If yes, show depth below ground surface ____ ft. and attach sample results.
(5) Attach soil sample results and a diagram of sample locations and excavations.

Additional Comments:
Soil passed TPH standard of 1000 ppm using USEPA Method 418.1 and 100 ppm PID standard at 45' x 45' x 16' deep.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. **I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.**

Date: ____
Printed Name/Title Mr. Rodney Bailey – Environmental Specialist Signature Rodney Bailey

Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Approval:
Printed Name/Title ____ Signature [signature] Date: JAN 0 8 2008
DEPUTY OIL & GAS INSPECTOR, DIST. #3

CLIENT: CHEVRON

ENVIROTECH INC.
ENVIRONMENTAL SCIENTISTS & ENGINEERS
5796 U.S. HIGHWAY 64-3014
FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615

LOCATION NO: _____
C.O.C. NO: _____

FIELD REPORT: CLOSURE VERIFICATION

PAGE No: 1 of 3

LOCATION: NAME: FEDERAL 1 WELL #: 1 PIT.
QUAD/UNIT: I SEC: 1 TWP: 32N RNG: 13W PM: NM CNTY: SJ ST: NM
QTR/FOOTAGE: 1525' FSL 820' FEL CONTRACTOR:

DATE STARTED: 11/30/07
DATE FINISHED: 12/07/07
ENVIRONMENTAL SPECIALIST: NJ. HAYWORTH

EXCAVATION APPROX. 45 FT. x 45 FT. x 16 FT. DEEP. CUBIC YARDAGE: 1500
DISPOSAL FACILITY: ENVIROTECH LAND FARM REMEDIATION METHOD:
LAND USE: RANGE LEASE: 30-045-22158.25 FORMATION: DAKOTA

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 123 FT. 526° FROM WELLHEAD.
DEPTH TO GROUNDWATER: >50<100 NEAREST WATER SOURCE: >1000 NEAREST SURFACE WATER: >1000
NMOCD RANKING SCORE: 10 NMOCD TPH CLOSURE STD: 1000 PPM

CHECK ONE:
X PIT ABANDONED
___ STEEL TANK INSTALLED

SOIL AND EXCAVATION DESCRIPTION:

11/30 CONTAMINATION FOUND.
12/03 POTHOLE TRENCH APPROX 30' E-W & 16'
12/03 EXCAVATION COMPLETE 45' & 45' X 16'

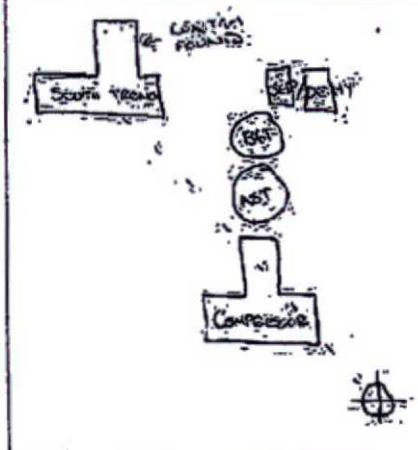
200 STD / 219

FIELD 418.1 CALCULATIONS

TIME / DATE	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
11/30	BOTTOM	1	5	20	4	274	1096
11/30	EAST WALL	2	5	28	4	2196	8784
11/30	WEST WALL	3	5	20	4	239	956

SCALE
0 FT

PIT PERIMETER



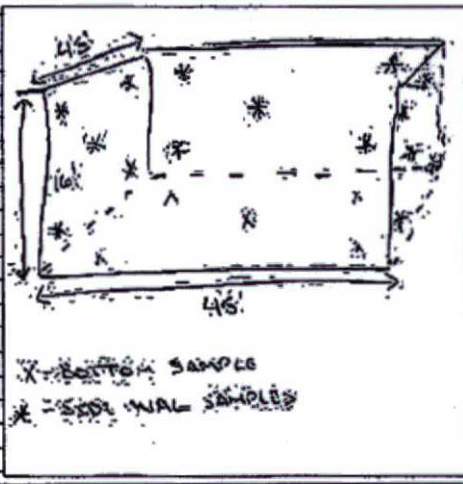
OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 BOTTOM	650
2 EAST	596
3 WEST	975
4	
5	

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME

PIT PROFILE



X = BOTTOM SAMPLES
* = SIDEWALL SAMPLES

TRAVEL NOTES: CALLOUT: _____ ONSITE: _____

36.92545 -108.14803 E

New Mexico Office of the State Engineer
Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-basin Code	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
SJ 00089		SJ	1	1	2	10	31N	13W	215849	4090850*	80	18	62
SJ 00398		SJ				21	31N	13W	213874	4087036*	104	6	98
SJ 00729		SJ		1	4	10	31N	13W	215931	4089948*	43	10	33
SJ 00798		SJ			2	10	31N	13W	216141	4090552*	125	65	60
SJ 00835		SJ		2	2	02	31N	13W	218002	4092270*	34	19	15
SJ 00965		SJ			1	22	31N	13W	215155	4087391*	115	30	85
SJ 01094		SJ			2	10	31N	13W	216141	4090552*	130	60	70
SJ 01295		SJ	1	1	2	09	31N	13W	214215	4090923*	230	180	50
SJ 01591		SJ	1	1	3	33	31N	13W	213069	4083713*	70	56	14
SJ 01820		SJ		1	3	22	31N	13W	214931	4086778*	50	20	30
SJ 01944		SJ		4	2	10	31N	13W	216355	4090331*	20	4	16
SJ 01945		SJ		3	3	10	31N	13W	215080	4089591*	31	16	15
SJ 01950		SJ		1	4	10	31N	13W	215931	4089948*	21	11	10
SJ 01952		SJ		4	2	10	31N	13W	216355	4090331*	16	6	10
SJ 02048		SJ	4	2	3	15	31N	13W	215529	4088266*	54	24	30
SJ 02072		SJ		4	1	33	31N	13W	213587	4084002*	42	18	24
SJ 02276		SJ			3	10	31N	13W	215281	4089792*	24	19	5
SJ 02294		SJ	3	2	4	28	31N	13W	214344	4085070*	42	15	27
SJ 02374		SJ	3	2	3	33	31N	13W	213477	4083488*	18	6	12
SJ 02467 POD1		SJ	4	3	2	03	31N	13W	216035	4091928	42		
SJ 02590		SJ	3	2	1	02	31N	13W	217099	4092201*	114	70	44
SJ 02618		SJ	1	2	3	33	31N	13W	213477	4083688*	500		
SJ 02637		SJ	2	2	4	10	31N	13W	216443	4090028*	20	6	14
SJ 02717		SJ		3	1	10	31N	13W	215108	4090390*	42	22	20
SJ 02724		SJ	3	2	4	28	31N	13W	214344	4085070*	40	5	35
SJ 02729		SJ		1	1	27	31N	13W	214891	4085960*	100	70	30

***UTM location was derived from PLSS - see Help**

(A CLW###### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-basin Code	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
SJ 02737		SJ		3	3	22	31N	13W	214907	4086365*	78	40	38
SJ 02753		SJ	1	1	1	27	31N	13W	214790	4086059*	74	40	34
SJ 02755		SJ	4	3	2	09	31N	13W	214398	4090329*	60	40	20
SJ 02761		SJ		3	3	27	31N	13W	214832	4084744*	80	40	40
SJ 02766		SJ	4	4	4	28	31N	13W	214524	4084663*	50	12	38
SJ 02811		SJ	1	4	4	28	31N	13W	214324	4084863*	50	2	48
SJ 02832		SJ	1	1	1	27	31N	13W	214790	4086059*	80	20	60
SJ 02836		SJ	1	3	3	22	31N	13W	214806	4086464*	100	30	70
SJ 02879		SJ	2	3	2	03	31N	13W	216083	4092057*	30		
SJ 02920		SJ	3	3	2	09	31N	13W	214198	4090329*	85		
SJ 02977		SJ	3	1	2	09	31N	13W	214215	4090723*	325	124	201
SJ 02987		SJ	3	1	4	09	31N	13W	214180	4089923*	250	87	163
SJ 02990		SJ	4	3	2	03	31N	13W	216083	4091857*	100	22	78
SJ 03083		SJ	2	2	3	33	31N	13W	213677	4083688*	25	14	11
SJ 03137		SJ	3	3	2	03	31N	13W	215883	4091857*	50		
SJ 03191		SJ	1	3	1	27	31N	13W	214774	4085654*	100		
SJ 03197		SJ	3	1	1	22	31N	13W	214877	4087489*	11	5	6
SJ 03284		SJ	1	3	1	33	31N	13W	213076	4084127*	160		
SJ 03351		SJ	2	4	1	27	31N	13W	215381	4085619*	42	20	22
SJ 03382		SJ	2	3	4	09	31N	13W	214363	4089718*	50		
SJ 03386		SJ			2	03	31N	13W	216185	4092159*	80	11	69
SJ 03611		SJ	1	3	1	23	31N	13W	216493	4087197*	24	14	10
SJ 03730 POD1		SJ	1	3	4	28	31N	13W	213918	4084882*	190	70	120
SJ 03734 POD1		SJ	3	4	1	15	31N	13W	215352	4088663*	40	10	30
SJ 03797 POD1		SJ	3	3	3	22	31N	13W	214806	4086264*	220	20	200
SJ 03831 POD1		SJ	1	4	1	15	31N	13W	215329	4088953	29	8	21
SJ 03852 POD1		SJ	3	2	1	15	31N	13W	215354	4088982	70		
SJ 03929 POD1		SJ	2	3	4	09	31N	13W	214388	4089616	27	9	18
SJ 03950 POD1		SJ	3	4	1	15	31N	13W	215338	4088701	40	15	25

***UTM location was derived from PLSS - see Help**

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
SJ 03971 POD1		SJ	4	1	1	15	31N	13W	215268	4089042	100	75	25
SJ 04043 POD1		SJ	2	1	4	09	31N	13W	214367	4090176	300	35	265
SJ 04151 POD1		SJ			1	15	31N	13W	214865	4088688	150		

Average Depth to Water: **31 feet**

Minimum Depth: **2 feet**

Maximum Depth: **180 feet**

Record Count: 58

PLSS Search:

Township: 31N **Range:** 13W