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 Resource	ces
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.

NAD: 1927 X 1983

Pit, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application Below grade tank registration Type of action: Permit of a pit or proposed alternative method 15725 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. OIL CONS. DIV DIST. 3 Operator: Enterprise Products Operating, LLC OGRID #: SEP 01 2016 Address: P.O. Box 4324, Houston, TX 77210 Facility or well name: Turley Compressor Station Tank #6 API Number: OCD Permit Number: U/L or Qtr/Qtr NW1/4/SW1/4 Section 33 Township 30N Range 09W County: San Juan

Surface Owner: K Federal State Private Tribal Trust or Indian Allotment

2. <u>Pit:</u> Subsection F, G or J of 19.15.17.11 NMAC		
Temporary: Drilling Workover		
Permanent Emergency Cavitation P&A	Multi-Well Fluid Management Lo	ow Chloride Drilling Fluid 🗌 yes 🗌 no
Lined Unlined Liner type: Thickness	mil LLDPE HDPE PVC Ot	her
String-Reinforced		
Liner Seams: Welded Factory Other	Volume:bbl	Dimensions: L x W x D

Longitude -107.79147°

Below-grade tank: Subsection I of 19.15.17.11 NMAC

1,470

Center of Proposed Design: Latitude 36.76838°

Tank Construction material: <u>Steel double walled and bottom</u> Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off

_	services of the service of the servi		, mer, o men me une automatic orenion sud ou
	Visible sidewalls and liner	Visible sidewalls only 🛛 Other	Double wall tank with level detection and riser pipe in annular space for monitoring
Lin	er type: Thickness	mil 🗌 HDPE 🗌 PV	/C Other

Gal Type of fluid: Waste oil, skid drain fluids, antifreeze, wash down water

Alternative Method:

Volume:

Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)

Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church)

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

Alternate. Please specify _



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

Screen Netting Other Enclosed

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

Signs: Subsection C of 19.15.17.11 NMAC

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

Signed in compliance with 19.15.16.8 NMAC

Variances and Exceptions:

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

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

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

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	Yes No
 Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	Yes 🗌 No

· · · · · · · · · · · · · · · · · · ·			
 Within 100 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	Yes No		
Temporary Pit Non-low chloride drilling fluid			
Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).			
- Topographic map, visual inspection (certification) of the proposed site			
 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			
 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. Image: Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.10 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number:			
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.			
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 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 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 H₂S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of 19.15.17.9 NMAC and 19.15.17.13 NMAC 	documents are	
13. Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan. Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Multi-well F Alternative 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	luid Management Pit	
14. Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be closure plan. Please indicate, by a check mark in the box, that the documents are attached.	attached to the	
15. <u>Siting Criteria (regarding on-site closure methods only)</u> : 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sou provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. In 19.15.17.10 NMAC for guidance.	rce material are Please refer to	
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	
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	
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 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site		
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - 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		
rom C-144 On Conservation Division Page 4 0	10	

- 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 			
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 19.15.17.13 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 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 beli	ief.		
Name (Print): Ivan W. Zirbes Title: Vice President-EHS&T			
Signature: Date: D8-26-2016			
e-mail address: Telephone: Telephone: 713-381-6595			
18. OCD Approval: A Permit Application functuding closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature:	30/16		
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 is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not section of the form until an approved closure plan has been obtained and the closure activities have been completed.	the closure report. complete this		
Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not section of the form until an approved closure plan has been obtained and the closure activities have been completed.	the closure report. complete this		
Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not section of the form until an approved closure plan has been obtained and the closure activities have been completed. Closure Completion Date: 20. Closure Method: Waste Excavation and Removal On-Site Closure Method If different from approved plan, please explain.	the closure report. complete this		

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

August 2016

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

SMA #5124213

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

BGT REGISTRATION PACKET FOR TURLEY COMPRESSOR STATION TANK #6 LATITUDE 36.76838°, LONGITUDE -107.79147°

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 36.76838°, longitude -107.79147° within the fenced area of the Turley Compressor Station. Tank information is presented in Table 1.

Table 1: Tank Information				
Name	Turley Compressor Station Tank #6			
	Latitude/Longitude		Section, Township, Range	
Location	36.76838°	-107.79147°	NW ¼ / SW ¼ Unit L Section 33	T30N R9W
Date of Site Visit	5-Nov-15			
County	San Juan			
Land Owner	BLM			
Tank Capacity	1,470 Gallons (on EPCO SPCC Tank List)			
Tank Dimensions	8' Width x 5' Height			
Tank Serial Number (If Available)	TK-206 (on attached diagram)			
Tank Contents	Waste oil, skid drain fluids, antifreeze, wash down water			
Tank Construction Notes	Steel double wall tank with level detection and riser pipe in annular space for monthly monitoring			
Tank Operation Notes	Tank is inspected monthly			

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Siting Criteria (19.15.17.10 NMAC)

The below-ground tank (BGT) is located at the Turley Compressor Station at an elevation of 5772 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 52 feet below ground surface (bgs). Local topography and proximity to adjacent water features. This data is also supported by the pit closure documentation for the Elliott Gas Com S #001 well, API #3004508895. The elevation at the Elliott Gas Com S #001 well is recorded at 5683 ams, and groundwater is estimated to be between 50 and 99 feet bgs. The BGT base is 5 feet bgs. Because the BGT base is thus estimated to be 47 feet above the ground water level, a variance is not being requested for this siting criteria.

Figure 1 shows the vicinity of the BGT location and the location of the nearby Elliott Gas Com S #001 well. The base layer of Figure 1 is the ESRI provided Imagery Topo Map³ and includes USGS Blue Lines⁴. 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 mark⁵, or within 200 feet of a spring or freshwater well used for public or livestock consumption, as indicated by the aerial photo⁶ and iWaters map layers², 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 Turley 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 Turley Compressor Station is located on a bench about 200 feet higher in elevation and about 1.25 miles north of the San Juan River, between Blanco, and Largo, New Mexico. The Compressor Station is located on an eroded surface of sandstone, shales and conglomerates belonging to the Paleocene Nacimiento Formation⁷. The location is about 12 miles west of Navajo Lake. The mesas surrounding Navajo Lake are composed mostly of medium-grained mixed clastic rocks belonging to the Eocene San Jose Formation⁸. The San Jose formation extends about halfway between the lake and the BGT location.

Groundwater is estimated to be about 52 feet bgs (5720 feet amsl) at this site, based on the following documentation:



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- Using the New Mexico Oil and Gas Association (NMOGA) differential method for "surface drainage influenced groundwater", depth to groundwater is estimated at 52 feet bgs². An unnamed tributary to the San Juan River is approximately 52 feet lower than the BGT at an elevation of 5720 feet amsl⁹ and located 1,274 feet west of the BGT. Groundwater is conservatively assumed to be at the base of the wash.
- Depth to groundwater in a closure report of the Elliot Gas Com S #001 well, API #3004508895 declares depth to groundwater to be 50 feet bgs. This well is located about 1700 feet south of the BGT, between the BGT and the San Juan River.

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 predominant¹⁰.

The primary aquifers in the San Juan Basin are contained in Cretaceous and Tertiary sandstones, as well as Quaternary Alluvial Deposits¹⁰. 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 feet¹¹. 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 ft²/d. Groundwater within these units flows towards the San Juan River¹⁰.



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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

1.all 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



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References

¹Personal Communication from Tom Long at Enterprise Products, San Juan Operating

²Office 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

³ESRI 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

⁴New 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.

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

⁶Esri, 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

⁷Green, 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

⁶USGS 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

Source: "Turley Compressor Station and Wash Elevations" 36.76801° N, -107.79057° 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.

¹¹Kelley, 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.



Turley Compressor Station, Tank#6 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

 Turley Compressor Station Tank #6 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.









Below Grade Tank Diagram Turley Compressor Station Tank #6



OCT 2 1 2016

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:

- 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.
- 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.
- 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.
- 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.
- 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.
- 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 belowgrade 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 belowgrade 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.

Closure Criter	ria for Soils Beneath Bel losed-Loop Systems and	Table I ow-Grade Tanks, Drying Pads Associa Pits where Contents are Removed	ated with
Depth below bottom of pit to groundwater less than 10,000 mg/l TDS	Constituent	Method*	Limit**
A	Chloride	EPA 300.0	600 mg/kg
≤50 feet	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
	Chloride	EPA 300.0	10,000 mg/kg
51 feet-100 feet	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
	Chloride	EPA 300.0	20,000 mg/kg
> 100 feet	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.

The second second

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

80001

<u>District I</u>
 P.O. Box 1980, Hobbs, NM
 <u>District II</u>
 P.O. Drawer DD, Artsin, NM 58211
 <u>District III</u>
 1000 Rio Brazos Rd, Aztec, NM 57410

State of New Mexico Energy, Minerals and Natural Resources Department SUBMIT 1 COPY TO APPROPRIATE DISTRICT OFFICE AND 1 COPY TO SANTA FE OFFICE

21

OIL CONSERVATION DIVISION P.O. Box 2088 Santa Fe, New Mexico 87504-2088

PIT REMEDIATION AND CLOSURE REPORT

Operator: Amoco Production Company	Telephone: (505) - 326-9200
Address: 200 Amoco Court, Farmington	, New Mexico 87401
Facility Or: ELLIOTT GC S Well Name Location: Unit or Qtr/Qtr Sec M Se	1 BC 33 I SON R 9W County SAN JUAN
Pit Type: Separator X Dehydrator 0	ther
Land Type: $BLM \times$, State, Fee	, Other <u>com</u> . AGMT.
Pithtocation: Pit dimensions: length (Action diffram). Tour DEPUTY OIL & GAS INSTICTOR DEC 1 9 1996 Direction from reference: Mannued	$\frac{ 9', width 9', depth zz'}{, other}$ $\frac{ 45}{}$ $\frac{ 45}{}$ $\frac{ 82}{} Degrees = East North X$ $\frac{}{} West South = $
Depth To Ground Water: (Vertical distance from contaminants to seasonal high water elevation of ground water)	Less than 50 feet (20 points) 50 feet to 99 feet (10 points) Greater than 100 feet (0 Points) <u>/O</u>
Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or; less than 1000 feet from all other water sources)	Yes (20 points) No (0 points) O
Distance To Surface Water: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Less than 200 feet (20 points) 200 feet to 1000 feet (10 points) Greater than 1000 feet (0 points)
	RANKING SCORE (TOTAL POINTS): /O

			Lalar
Date Remediation St	arted:	Date Completed:	7/27/94
Remediation Method:	Excavation \times	Approx. cubic yards	300
sections)	Landfarmed \times	Insitu Bioremediation _	
	Other		
Perediction Location	. Onsite X offe	ite	
(ie. landfarmed onsite,			
offsite facility)			
General Description	Of Remedial Action:		
Excavatio	n		
Ground Water Encount	tered: No X	Yes Depth	
Final Pit:	Sample location	see Attached Documents	
Closure Sampling:			
attach sample results	Sample denth /	1	· · · · · · · · · · · · · · · · · · ·
locations and depths)	Sample date 7/2	9/94 camia time o	745
	Sampte date	Sampte cime C	
	Sample Results		
	Benzene(ppm) _	ND	
	Total BTEX(ppm) 1.57	
	Field headspac	e(ppm) 996	
	TPH 628 PPM		
Ground Water Sample	Yes No 🗙	(If yes, attach sample :	results)
OF MY KNOWLEDGE AND	BELIEF	BOVE IS TRUE AND COMPLET	E TO THE BEST
DATE 8/1/94		DUNCI	
SIGNATURE BASE	PRINTED N	AME Duddy D. Sh	Aw, 1
and the fact of		CNVIRONMENTAL C	DORDINATOR

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BLAGG ENGINEERING, INC.

P.O. Box 87, Bloomfield, New Mexico 87413 Phone: (505)632-1199 Fax: (505)632-3903

FIELD MODIFIED EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Amoco	Project #:	
Sample ID:	1 @ 16'	Date Analyzed:	7-29-9
Project Location:	Elliott GC S 1	Date Reported:	7-29-9
Laboratory Number:	TPH-1042	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable		
Petroleum Hydrocarbons	630	20

ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample	Duplicate	%
	TPH mg/kg	TPH mg/kg	*Diff.
- P			
	978	938	4.18
	*Administrative Accentance limits set at 30%		

Method:

Modified Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

Comments:

Separator Pit - B0031

how Vel

R. E. Onall Review

A BARRASSE

TECHNOLOGIES, LTD

AROMATIC VOLATILE ORGANICS

Attn:	Nelson Ve	lez		· • .	10 A	Date:	7/30/94
Company:	Blagg Engi	neering		87 18		Lab ID:	1675
Address:	P.O. Box 8	37	n ever			Sample ID:	2194
City, State:	Bloomfield	, NM 87413				Job No.	2-1000
		• . • •	• •	*		· ·	646 G
Project Nam	18:	Elliott GC	51				
Project Loca	ation:	1 @ 16' -	Separator Pil	1 T. 12			
Sampled by	•	NV	Date:	7/29/94		Time;	7:45
Analyzed by	/:	DLA	Date:	7/30/94	•		
Sample Man	rix:	Soil		1			

Aromatic Volatile Organics

Component	**Measured Concentration ug/kg
Benzene	ND
Toluene	3.3
Ethylbenzene	83
m,p-Xylene	1,464
o-Xylene	23.3
	TOTAL 1,574 ug/kg

ND - Not Detectable

** - Method Detection Limit, 2 ug/kg

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: 7/31/94 Date:

FAX: (505) 327-1496 • 24 HR. - (505) 327-7105 • OFF.: (505) 325-8786 3005 NORTHRIDGE DRIVE • SUITE F • P. O. BOX 2606 • FARMINGTON, NEW MEXICO 87499

A PRILIAN DE

EL PASO FIELD SERVICES PRODUCTION PIT CLOSURE

TSK

Elliot Gas Com S #1 Meter/Line ID - 75265

SITE DETAILS Rng: 9W S

Legals - Twn: 30N R NMOCD Hazard Ranking: 10 Operator: Amoco Sec: 33 Unit: M Land Type: BLM Pit Closure Date: 09/12/94

RATIONALE FOR RISK-BASED CLOSURE

The pit noted above was assessed and ranked according to the criteria in the New Mexico Oil Conservation Division's (NMOCD) Unlined Surface Impoundment Closure Guidelines.

A Phase I excavation was conducted on September 12, 1994, to 12 feet below ground surface, and a soil sample was collected for field headspace analysis and laboratory analysis for benzene, total BTEX, and TPH. Groundwater was not encountered in the pit. Approximately 40 cubic yards of material was removed for landfarming and sent to an OCD approved centralized site. The pit was backfilled and graded in a manner to direct surface runoff away from the pit area. Headspace analysis indicated an organic vapor content of 1070 ppm; laboratory analysis indicated a benzene concentration of 13 mg/kg, a total BTEX concentration of 256 mg/kg, and a TPH concentration of 1470 mg/kg. BTEX and TPH were above required remediation levels for the Hazard Ranking Score.

On May 9, 1995, a Phase II excavation was conducted to 17 feet below ground surface and a soil sample was collected for field headspace analysis and laboratory analysis for benzene, total BTEX, and TPH. Groundwater was not encountered in the test pit. Approximately 40 cubic yards of material was removed for landfarming and sent to an OCD approved centralized site. The pit was backfilled and graded in a manner to direct surface runoff away from the pit area. Headspace analysis indicated an organic vapor content of 366 ppm; laboratory analysis indicated a benzene concentration of 0.86 mg/kg, a total BTEX concentration of 372 mg/kg, and a TPH concentration of 1470 mg/kg. BTEX and TPH remained above the required remediation levels for the Hazard Ranking Score.

On August 8, 1995, a Phase III borehole was conducted to 20 feet below ground surface where bedrock was encountered. Groundwater was not encountered in the borehole. The borehole was grouted to the surface in a manner to direct surface runoff away from the pit area. A soil gas survey conducted indicates BTEX compounds to be below action level directly down gradient of excavated pit.

El Paso Field Services Company (EPFS) requests closure of the above mentioned production pit location for the following reasons:

- The primary source, discharge to the pit, has been removed for almost six years.
- The pit was backfilled and the former pit area graded to direct surface runoff away from the former pit.

\FARM\JOBS\Pre 628 Job Numbers\21000\75265.doc

EL PASO FIELD SERVICES PRODUCTION PIT CLOSURE

- Groundwater was not encountered in the excavation or the borehole.
- Residual hydrocarbons in the soil will degrade naturally with minimal risk to the environment.
- Bedrock was encountered at 20 feet below ground surface; consequently, impact to groundwater is unlikely.
- There are no water supply wells or other sources of fresh water extraction within 1,000 feet of site.
- Excavated material has been removed from the pit, eliminating potential direct contact with livestock or the public.

ATTACHMENT

Field Pit Assessment Form Field Pit Remediation/Closure Form Phase I Field Pit Remediation/Closure Form Phase II Soil Gas Survey Phase III Geologic Log Laboratory Analytical Results

P. F. S. Start Will St. L.S.

FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: <u>7526S</u> Location: <u>EULIOT GAS com s #1</u> Operator #: 0203 Operator Name: <u>Amoro</u> P/L District: <u>BloomElEln</u> Coordinates: Letter: <u>M</u> Section <u>33</u> Township: <u>30</u> Range: <u>9</u> Or Latitude Longitude Pit Type: Dehydrator <u>X</u> Location Drip: Other: Site Assessment Date: <u>6.8.94</u> Area: <u>10</u> Run: <u>43</u>
SITE ASSESSMENT	NMOCD Zone: Land Type: BLM ⊠ (1) (From NMOCD State □ (2) Maps) Inside ☑ (1) Fee □ (3) Outside □ (2) Indian
REMARKS	REMARKS : THREE PITS ON LOCATION. WILL (LOSE ONLY ONE. PIT IS DRY. LOCATION IS ON THE NORTH SIDE OF C.R. 4599 ON THE 38-1 RD. REDUNE AND TERO CONFIRMED LOCATION IS INSIDE V.2.



FIELD PIT REMEDIATION/CLOSUME FORM

GENERAL	Meter: 75265 _{Location} : <u>Ellipt Gas Com 5</u> #1 Coordinates: Letter: <u>M</u> Section <u>33</u> Township: <u>30</u> Range: <u>9</u> Or Latitude Longitude Date Started : <u>9/12/94</u> Run: <u>10</u> <u>43</u>
LIELD OBSERVATIONS	Sample Number(s): <u>KD 250</u> Sample Depth: <u>I2</u> Feet Final PID Reading <u>/070 por1</u> PID Reading Depth <u>I2</u> Feet Yes No Groundwater Encountered I X Approximate Depth Feet
CLOSURE	Remediation Method : Excavation Approx. Cubic Yards Onsite Bioremediation Image: Cubic Yards Onsite Bioremediation Image: Cubic Yards Backfill Pit Without Excavation Image: Cubic Yards Soil Disposition: Image: Cubic Yards Envirotech Image: Cubic Yards Other Facility Image: Cubic Yards Dit Observe Data @lig law Image: Cubic Yards
I KEMARKS	Pit Closed By: Der Remarks : Excavated pit to 12', Took pid Sample, Closed pit. Signature of Specialist: MM Down (SP3101) 03/16/94



FIELD SERVICES LABORATORY

ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

Field ID	Leb ID
KD 250	946095
75265	N/A
9-12-94	1000
	N/A
9-13-94	9-13-94
9-14.94	9-17-94
VC	Bown Grey Sand/C/A
	Field ID KD 250 75265 9-12-94 9-12-94 9-12-94 9-14-94 VC

REMARKS:

RESULTS

PARAMETER	RESULT	UNITS	Car elat	QUALIFI	ERS	
			DF		M(g)	Vin
BENZENE	13	MG/KG	20			1.1.1
TOLUENE	73	MG/KG	20		2 . Existence 2 . Existence	
ETHYL BENZENE	40.5	MG/KG	20			
TOTAL XYLENES	0 11	MG/KG	2.0			
TOTAL BTEX	254	MG/KG				
TPH (418.1) 1470	+467.1.1000	9/14/44 MG/KG			2.07	28
HEADSPACE PID	070	PPM				N. S.
PERCENT SOLIDS	90.7	%		财物学的		

The Surrogate Recovery was at _____% for this sample All QA/QC was acceptable N tive:

ATI	Reculto	attached.	Surr parte	RELEVELS WAS	Dotside ATI AC.
limite	ave to	motivis	tuber Sevence	0	
DE Ditaise	E				and the second

Dilution Factor Used

Approved By:

Date:



GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)

CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 409354

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE

SAMPLE	CLIENT T.D.	MATRIX	DATE SAMPLED	DATE	DATE	DIL. FACTOR
13	946087	NON-AQ	09/09/94	09/14/94	09/17/94	1
14	946088	NON-AQ	90/09/94	09/14/94	09/17/94	1
15	946095	NON-AQ	09/12/94	09/14/94	09/17/94	20
PARAME	TER		UNITS	13	14	15
ENZEN	E		MG/KG	<0.025	<0.025	13
OLUEN	E		MG/KG	1.6	<0.025	73
ETHYLB	ENZENE		MG/KG	1.8	<0.025	<0.5
TOTAL	XYLENES		MG/KG	88 D(5)	0.059	170

SURROGATE:

BROMOFLUOROBENZENE (%)

107 108 153*

*OUTSIDE ATI QUALITY CONTROL LIMITS DUE TO MATRIX INTERFERENCE D(5)=DILUTED 5X, ANALYZED 09/19/94 Analytical Technologies, Inc.

2709-D Pan American Freeway, NE Albuquerque, NM 87107 Phone (505) 344-3777 FAX (505) 344-4413

ATI I.D. 409354

September 22, 1994

El Paso Natural Gas Co. P.O. Box 4990 Farmington, NM 87499

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On 09/14/94, Analytical Technologies, Inc., (ADHS License No. AZ0015), received a request to analyze non-aqueous samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

If you have any questions or comments, please do not hesitate to contact us at (505) 344-3777.

Letítia Krakowski, Ph.D. Project Manager

MR:jt

Enclosure



Corporate Offices: 5550 Morehouse Drive San Diego, CA 92121 (619) 458-9141

# 24324	PHOJECT I		Project		E SE			REC	DUESTE	D ANALY	SIS		CONTRACT LABORATORY P. O. NUMBER
AMPLERS: (Signatur	" Kin	mi	Dan	MA DATE: 9/12/94	IL NUMB	TYPE	EPA 418.1 BTEX EPA 8020 LAB PID	EX 8020	PID PID			ENCE	
LABID	DATE	TIME	MATRIX	FIELD ID	E S	1			seou	REMARKS			
946095	9/12/0	1000	soil	KO 250	1	rc	X	X	14	1417 (141 141 (141)		276	Very High PiD Reading
946096	8/m/Ay	1340	sil	KD 751	1	VC	x	X		1.2	10	227	
946097	9/12/ay	1605	soil	KD 252	1	VC	x	X			ź	228	
	1		1			6.40		10					
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- Balantina	1	8								4 - 12		-	
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HELING SHED BY: ()	Ta	n	9/12/2	TIME 33 RECEIVED BY: (Sig	neture)	£	in	RELINO	I N	Y: (Signatu	Vi	11	DATE/TIME 282 RECEIVED BY: (Signature)
ELINOUSYED BY:	Signature)	15	DATE	TIME RECEIVED BY: (Sig	(nature)	120	crie	RELINO	UISHED E	IY: (Signetu	T()		DATE/TIME RECEIVED OF LABORATORY BY

FM-08-0565 A (Rev. 05-94)





FIELD SERVICES LABORATORY

ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone PHASE 2

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KD 432	216798
MTR CODE SITE NAME:	75245	N/A
SAMPLE DATE TIME (Hrs):	5.9-95	11-15
SAMPLED BY:	5-10-95	N/A
DATE OF TPH EXT. ANAL.:	5-10-95	
DATE OF BTEX EXT. ANAL.:	5/10/95	5/10/95
TYPE DESCRIPTION:	*6	Brown sand & elan

REMARKS:

RESULTS

	RESULT	UNITS		QUALIF	ERS	
			DF P	0	M(g)	MMGOD
BENZENE	0,86	MG/KG	0.30166		4.42	20
TOLUENE	79.0	MG/KG				1
ETHYL BENZENE	18.8	MG/KG				
TOTAL XYLENES	274	MG/KG	1	DI, J	2	1
TOTAL BTEX	372	MG/KG				
TPH (418.1)	1470	MG/KG			2.04	28
HEADSPACE PID	346	PPM	in and a state			
PERCENT SOLIDS	92.0	%			清除	
The Turrogate Recovery was at	- TPH is by EPA Method	418.1 and BTEX is by EP % for this sample	A Method 8020 All QA/QC	was accepta	able.	
ATT Results attack	a) for more	1: Geod 8015				

DF = Dilution Factor Used

Annroved Bv:

John davde

Date:

5/11/95

BTEX SOIL SAMPLE WORKSHEET

Fil	e	:	946798A	Date Printed : 5/11/9	5
Soil Mas	s (g)	:	4.42	Multiplier (L/g) : 0.0011	3 ~
Extraction vo	I. (mL)	:	20	DF (Analytical) : 266.66	7
Shot Volum	e (uL)	:	75	DF (Report) : 0.3016	6
					Det. Limit
Benzene	(ug/L)	:	2.84	Benzene (mg/Kg): 0.85	7 0.754
Toluene	(ug/L)	:	261.98	Toluene (mg/Kg): 79.02	9 0.754
Ethylbenzene	(ug/L)	:	62.34	Ethylbenzene (mg/Kg): 18.80	5 0.754
p & m-xylene	(ug/L)	:	732.02	p & m-xylene (mg/Kg): 220.82	1 1.508
o-xylene	(ug/L)	:	175.32	o-xylene (mg/Kg): 52.88	7 0.754
				Total xylenes (mg/Kg): 273.70	7 2.262
				Total BTEX (mg/Kg): 372.39	B

通知の調整者での 1



GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8015 MODIFIED CLIENT : EL PASO NATURAL PROJECT # : 23324

ATI I.D.: 505344

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SAMPLE ID. # CLIENT	L.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01 946798	3	NON-AQ	05/09/95	05/11/95	05/12/95	5
02 946799	•	NON-AQ	05/09/95	05/11/95	05/12/95	1
PARAMETER			UNITS	01	02	
FUEL HYDROCARBO	ONS		MG/KG	5400	7	
HYDROCARBON RAN	IGE			C6 - C14	C9 - C18	
HYDROCARBONS QU	ANTITATED	USING		GASOLINE	DIESEL	

SURROGATE:

O-TERPHENYL (%)

102

99



2709-D Pan American Freeway, NE Albuquerque, NM 87107 Phone (505) 344-3777 FAX (505) 344-4413

ATI I.D. 505344

May 17, 1995

El Paso Natural Gas P.O. Box 4990 Farmington, Nm 87499

Phase I pits

Project Name/Number: PIT CLOSURE 24324

Attention: JOHN LAMBDIN

On 05/11/95, Analytical Technologies, Inc., (ADHS License No. AZ0015), received a request to analyze non-aqueous samples. The samples were

analyses and the quality control data, which follow each set of analyses, are enclosed.

If you have any questions or comments, please do not hesitate to contact us at (505) 344-3777.

Letitia Krakowski, Ph.D. Project Manager

MR:jt

Enclosure



H. Mitchell Rubenstein, Ph.D. Laboratory Manager



Corporate Offices: 5550 Morehouse Drive San Diego, CA 92121 (619) 458-9141

* 24324	PROJECT I	OSUKE	Project	-Pl	xx 2	62			REC	QUESTE	D ANALY	1515	ľ	CONTRACT LAB	ORATORY P. O.	NUMBER	
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RECORD OF SUBSURFACE EXPLORATION

PhaseII Drilling

Philip Environ	umental Services Corp.
4000 Merres R	bed
Farmington, New	Mexico 87401
(606) 328-2262	FAX (506) 326-2388

ntion Depth ed By d By Time Starte Time Compl	S.Kelly M. J ated S	R9, 3	33, M 640 0730 7, 0845	Project I Well Log Personne Contract Client Pe Drilling N Air Monit	ged By al On-Site cars On-Site cronnel On- fethod laring Metho	om 5#1, 7526: hur, J.O'Keite 2 HS19	
epth Sample Numbe	Sample	Semple Type & Receivery Enches	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)	Air Monitoring Units: NDU BZ BH S	Drilling Conditions & Blow Counts
- ⁵ - ¹⁰ - ¹⁵ 20 25 30 35	R-20	ણુહ્ય	Backfill to 12. sondy GRAVEL, brown, 30-45% fineto med Sond, med. to coarse, rounded grovel. dense. domp. TOB - 20.0'			5	er a kias objo Hit cobble

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TABLE 1

RECON® Soil-Gas and Groundwater Investigation

El Paso Natural Gas Company Sites San Juan Basin Farmington, New Mexico

	METER	SAMPLE	
PIT LOCATION NAME	NUMBER	IDENTIFICATION	PREVIOUS INVESTIGATION,
RINCON No. 48	71025	RINCON48	Phase II HSA refusal at 23' bis
RINCON No. 10	70645	RINCON10	Phase II HSA refusal at 25' bis
RINCON No. 70	71580	RINCON70	Phase II HSA refusal at 32' bis
CHACON AMIGOS No. 2	93370	CA2	Phase II HSA refusal at 30' bis
JAQUEZ A No. 1A	89619	JAC1A	Phase II HSA refusal at 18' bis
FLORANCE No. 107 PC	87017	FLORANCE107	Phase II HSA refusal at 29.5' bis
WALKER COM No. 1	75879	WALKERCOM1	Phase II HSA refusal at 27.5' bis
HEATH F1	72505	HEATHF1	Phase II HSA refusal at 18' bis
DAY No. 3	90847	DAY3	Phase II HSA refusal at 30' bis
SULLIVAN No. 1	70760	SULLIVAN1	Phase II HSA refusal at 23' bis
MARCOTTE 1A	89903	MARCOTTE1A	Phase II HSA refusal at 18' bis
RUJILLO No.1 PC	72089	TRUJILLO1PC	GW encountered in phase I excavtion
EDERAL 6 No. 32	94768	FEDERAL6No32	Phase II soil boring indicated GW at less than 20' bis
CANYON LARGO 304	93788	C-LARGO304	Phase II soil boring indicated GW at less than 20' bis
CANYON LARGO 298	93590	C-LARGO298	Phase II soil boring indicated GW at less than 20' bis
CANYON LARGO 302	93793	C-LARGO302	Phase II soil boring indicated GW at less than 20' bis
(-17 LINE DRIP	N/A	K17LINEDRIP	Phase II soil boring indicated GW at less then 20' bis
HOWELL No. 3 LINE DRIP	N/A	HOWELLINGLD	Phase II soil boring indicated GW at less than 20' bis
ATERAL 2C-1 LINE DRIP	N/A	LATERAL2C-1	Phase II HSA refusal at 42 bis
UTLER 2	74289	CUTLER2	Phase II soil boring indicated GW at less than 20' bis
ATERAL 2C-22 No. 3 LINE DRIP	N/A	L2C-22No3LD	Phase II soil boring indicated GW at less than 20' bis
NICKELS No. 1 DK	73034	NICKELS#1DK	Phase II soil boring indicated GW at less than 20' bis
MCGRATH No. 1	70862	MACGRATH#1	Phase II soil boring indicated GW at less than 20' bis
LORA VISTA #1	75718	FLORAVISTA1	Phase II soil boring indicated GW at less than 20' bis
ARSHALL B-1J	89039	MB1J	Phase II soil boring indicated GW at less than 20' bis
VRGO No. 1E	93780	ARGO#1E	Phase II soil boring indicated GW at less than 20' bis
TRUNK D LINE DRIP	N/A	TOLD	Phase II soil boring indicated GW at less than 20' bis
K-31 LINE DRIP	N/A	K31LINEDRIP	Phase II soil boring indicated GW at less than 20' bis
MILES FEDERAL No. 1E	94495	MILESF#1E-01	Phase II soil boring indicated GW at less than 20' bis
LLIOT GAS COM No. M1	73147	EGC#M1	Phase II HSA refusal at 22' bis
ELLIOT GAS COM No. S1	75265	EGC#S1	Phase II HSA refusal at 20' bis
INDRITH B24	94967	LINDRITHB24	Phase II soil boring indicated GW at less than 20' ble
UNDRITH 23	74692	LINDRITH23	Phase II soil boring indicated GW at less than 20' bis
CANEPLE GAS COM No. 1	70714	CGC#1	Phase II HSA refusal at 18.5' bis
DHIO C GVT #3	72890	OCG3	GW encountered during Phase II excavation
C3 LOOP LINE DRIP	N/A	CILLD	No GW encountered in Phase I excavation
SAN JUAN UNIT 28-6 #79 PM	72265	SJU28679PM	Phase II soil boring indicated GW at less than 20' ble
	80904	HATA	Phase II soil boring indicated GW at less than 20 bla

bis = below land surface

GW = groundwater

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Page 1

RECON® Soil-Gas and Groundwater Investigation

El Paso Natural Gas Company Sites San Juan Basin Farmington, New Mexico

		Lieter			No. of	No. of		
Location Name	U-S-T-R		Sample I.D.	Sample Matrix	Probe Holes	Samples	Depth	Comments
Rincon No. 48	N30-27-6	71025	RINCON48	Soll-gas	3	12	3-12	BTEX below action levels
Rincon No. 10	C36-27-7	70645	RINCON10	Soll-gas	3	12	3-12	BTEX below action levels
Rincon No. 70	A27-27-7	71580	RINCON70	Soll-gas	3	12	3-12	BTEX below action levels
Chacon Amigos No. 2	12-22-3	93370	CA2	Soil-gas	A State	16	3-12	Benzene above action levels
Jaquez A No. 1A	D5-29-9	89619	JAC1A	Soll-gas	3	12	3-12	BTEX below action levels
Florance No. 107 PC	E8-30-9	87017	FLORANCE107	Soil-gas	6	24	3-12	BTEX below action levels
Walker Com No. 1	P25-30-9	75879	WALKERCOM1	Soil-gas	3	12	3-12	BTEX below action levels
Heath F1	E8-29-9	72505	HEATHF1	Soil-gas	3	12	3-12	BTEX below action levels
Day No. 3	A17-29-8	90847	DAY3	Soil-gas	3	12	3-12	BTEX below action levels
Sullivan No. 1	M22-32-10	70760	SULLIVAN1	Soll-gas	3	12	3-12	BTEX below action levels
Marcotte 1A	15-31-10	89903	MARCOTTE1A	Soil-gas	3 3	12	3-12	BTEX below action levels
Trujillo No. 1 PC	M21-29-10	72089	TRUJILLO1PC	Groundwater	15	18	4-6	Benzene above action level and offsite
Federal 6 No. 32	G8-26-7	94768	FEDERAL6No32	Soil-gas and Groundwater	6	32	3-30	BTEX above action levels
Canyon Largo 304	C11-24-6	93788	C-LARGO304	Soil-gas and Groundwater	6	15	3-21	BTEX above action levels
Canyon Largo 298	A3-24-6	93590	C-LARGO298	Soll-gas	3	12	3-12	BTEX below action levels
Canyon Largo 302	J3-24-6	93793	C-LARGO302	Soil-gas and Groundwater	8	17	3-24	BTEX below action levels
K-17 Line Drip	C26-27-8	N/A	K17LINEDRIP	Groundwater	3	3	18-27	BTEX below action levels
Howell No. 3 Line Drip	C3-27-8	N/A	HOWELLHSLD	Groundwater	3	3	21-27	BTEX below action levels
Lateral 2C-1 Line Drip	P36-27-11	N/A	LATERAL2C-1	Sol-gas	3	12	3-12	BTEX below action levels
Cutler 2	A14-24-6	93793	CUTLER2	Groundwater	25.4	4	24-27	BTEX below action levels
Lateral 2C-22 No. 3 Line Drip	G13-24-6	N/A	L2C-22No3LD	Groundwater	3	3	18-24	BTEX below action levels
Nickels No. 1 DK	K11-31-13	73034	NICKELS#1DK	Groundwater	5	5	12-15	Benzene above action levels
McGrath No. 1	F7-31-11	70862	MACGRATH#1	Soll-gas	3	3	9	BTEX below action levels
Flora Vista #1	F22-30-12	75718	FLORAVISTA1	Groundwater	3	3	24-30	BTEX below action levels
Marshall B-1J	014-27-9	89039	MB1J	Soil-gas	3	3	8-20	BTEX below action levels
Argo No. 1E	N18-27-10	93780	ARGO#1E	Groundwater	3	3	24-30	BTEX below action levels
Trunk D Line Drip	E20-28-8	N/A	TDLD	Groundwater	3	3	15-24	BTEX below action levels
K-31 Line Drip	N16-25-6	N/A	K31LINEDRIP	Groundwater	14	14	21-24	Benzene above action levels and offsite

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RECON® Soil-Gas and Groundwater Investigation

El Paso Natural Gas Company Sites San Juan Basin Farmington, New Mexico

		Lieter			No. of	No of		
Location Name			Sample I.D		Probe Holes	Samples	Depth	Comments
Miles Federal No. 1E	N5-26-7	94495	MILESF#1E	Groundwater	3	3	24-30	BTEX below action levels
Elliot Gas Com No. M1	133-30-9	73147	EGC#M1	Soll-gas	3	12	3-12	BTEX below action levels
Elliot Gas Com No. S1	M33-30-9	75265	EGC#S1	Soil-gas	3	12	3-12	BTEX below action levels
Lindrith B24	N9-24-3	94967	LINDRITHB24	Groundwater	3	3	21-27	Benzene above action levels and offsite
Lindrith B23	D9-24-3	74691	LINDRITHB23	Groundwater	3	3	21-27	BTEX below action levels
Caneple Gas Com No. 1	M18-31-10	70714	CGC#1	Soll-gas	3	12	3-12	BTEX below action levels
Ohio C Gvt #3	P26-28-11	72890	OCG3	Soil-gas and Groundwater	3	3	9-17	Benzene above action levels and offsite
C3 Loop Line Drip	D28-29-9	N/A	C3LLD	Soil-gas	3	12	3-12	BTEX below action levels
San Juan Unit 28-6 #79 PM	M11-27-6	722654	SJU28679PM	Groundwater	7	7	30-36	BTEX above action levels
Hammond 41A	025-27-8	89894	H41A	Groundwater	9	9	15-23	BTEX above action levels
U-S-T-R = Unit-Section-Town	ship-Range							
BTEX = benzene, toluene, eth	yl benzene, ar	nd xylenes						

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Sample Analysis Worksheet

Sample	Probe Hole	Depth	Ana	lysis	Injection		VAC	
1.D.	Number	(Feet)	Time	Date	Vol. (µL)	Multiplier	in. Hg	Comments
MILESF#1E-01	PH-01	24-30	1027	12/1/95	500	0.2	N/A	Groundwater
MILESF#1E-02	PH-02	18-30	1107	12/1/95	500	0.2	N/A	Groundwater
MILESF#1E-03	PH-03	24-30	1159	12/1/95	500	0.2	N/A	Groundwater
MILESF#1E-03-D	PH-03	24-30	1241	12/1/95	500	0.2	N/A	QC - Duplicate
MILESF#1E-03-MS	PH-03	24-30	1330	12/1/95	500	0.2	N/A	QC - Matrix Spike
Blank-83	N/A	N/A	1659	12/1/95	500	0.2	N/A	QC - System Blank
QCRT-30	N/A	N/A	1716	12/1/95	100	1	N/A	QC - Retention Times
Blank-84	N/A	N/A	0641	12/2/95	500	0.2	N/A	QC - System Blank
STD-1202	N/A	N/A	0729	12/2/95	100	1	N/A	Calibration Standard
Blank-85	N/A	N/A	0802	12/2/95	500	0.2	N/A	QC - System Blank
Blank-86	N/A	N/A	0855	12/2/95	500	0.2	N/A	QC - Probe Rod Blank
ARGO#1E-01	PH-01	24-30	0929	12/2/95	500	0.2	N/A	Groundwater
ARGO#1E-02	PH-02	24-30	0957	12/2/95	500	0.2	N/A	Groundwater
ARGO#1E-03	PH-03	24-30	1035	12/2/95	500	0.2	N/A	Groundwater
ARGO#1E-03-D	PH-03	24-30	1101	12/2/95	500	0.2	N/A	QC - Duplicate
ARGO#1E-03-MS	PH-03	24-30	1117	12/2/95	500	0.2	N/A	QC - Matrix Spike
Blank-87	N/A	N/A	1513	12/2/95	500	0.2	N/A	QC - System Blank
QCRT-30	N/A	N/A	1549	12/2/95	100	1	N/A	QC - Retention Times
Blank-88	N/A	N/A	0635	12/4/95	500	0.2	N/A	QC - System Blank
STD-1204	N/A	N/A	0728	12/4/95	100	1	N/A	Calibration Standard
Blank-89	N/A	N/A	0757	12/4/95	500	0.2	N/A	QC - System Blank
Blank-90	N/A	N/A	0814	12/4/95	500	0.2	N/A	QC - Probe Rod Blank
EGC#\$1-01	PH-01	3	0858	12/4/95	500	0.2	8	Soil-gas
EGC#\$1-02	PH-01	6	0913	12/4/95	500	0.2	9	Soil-gas
EGC#\$1-03	PH-01	9	0928	12/4/95	500	0.2	8	Soil-gas
EGC#\$1-04	PH-01	12	0943	12/4/95	500	0.2	8	Soil-gas
EGC#S1-05	PH-02	3	1011	12/4/95	500	0.2	10	Soil-gas
EGC#\$1-06	PH-02	6	1026	12/4/95	500	0.2	8	Soil-gas
EGC#\$1-07	PH-02	9	1041	12/4/95	500	0.2	8	Soil-gas
								P4A
		•						1-31-40

N/A - not applicable QC - quality control D - duplicate analysis MS - matrix spike

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RECON SAMI LE ANALYSIS

DATA SUMMARY TABLE Project: 13947

	Probe Hole	Depth	Benzene	Toluene	Ethyl benzene	m+p-Xylene	o-Xylene	1997 (M. 1997)
Sample I.D.	Number	(feet)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	Comments
EGC#S1-08	PH-02	12	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	Soil-gas
EGC#\$1-09	PH-03	3	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	Soil-gas
EGC#S1-10	PH-03	6	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	Soil-gas
EGC#\$1-11	PH-03	9	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	Soil-gas
EGC#S1-12	PH-03	12	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	Soil-gas
EGC#M1-01	PH-01	3	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	Soil-gas
EGC#M1-02	PH-01	6	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	Soil-gas
EGC#M1-03	PH-01	9	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	Soil-gas
EGC#M1-04	PH-01	12	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	Soil-gas
EGC#M1-05	PH-02	3	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	Soil-gas
EGC#M1-06	PH-02	6	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	Soil-gas
EGC#M1-07	PH-02	9	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	Soil-gas
EGC#M1-08	PH-02	12	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	Soil-gas
EGC#M1-09	PH-03	3	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	Soil-gas
EGC#M1-10	PH-03	6	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	Soil-gas
EGC#M1-11	PH-03	9	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	Soil-gas
EGC#M1-12	PH-03	12	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	Soil-gas
EGC#M1-12-D	PH-03	12	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	QC - Duplicate
Blank-91	N/A	N/A	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	QC - System Blank
QCRT-30	N/A	N/A	11	611	534	532	512	QC - Retention Times
Blank-92	N/A	N/A	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	QC - System Blank
STD-1205	N/A	N/A	12	705	705	706	707	Calibration Standard
Blank-93	N/A	N/A	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	QC - System Blank
Blank-94	N/A	N/A	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	QC - Probe Rod Blank
LINDRITH23-01	PH-01	21-27	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	Groundwater
LINDRITH23-02	PH-02	21-27	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	Groundwater
LINDRITH23-03	PH-03	21-27	<1	3	ND(1)	2	ND(1)	Groundwater
LINDRITHB24-01	PH-01	21-27	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	Groundwater

= duplicate analysis. D

QC = quality control.

- ug/L = micrograms of compound detected per liter of soil or groundwater vapor analyzed.
- ND = not detected at the lower quantifiable limit indicated in parenthesis.

N/A = not applicable.

MS = matrix spike.

QA Review: for EAnderson Review Date: 1-31-96 AK 2/13/96





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)	, (quar (quar	ter	s a s a	re	1=N\ smal	N 2=N lest to	NE 3=SW b largest)	4=SE) (NAD8	3 UTM in meters)		(In feet)
	POD Sub-		0	0	0						Denth	Denth	Water
POD Number	Code basin C	ounty	64	16	4	Sec	Tws	Rng	x	Y	Well	Water	Column
SJ 00009		SJ			3	06	30N	09W	248261	4080567* 🌍	396	60	336
SJ 00091		SJ	2	2	3	35	30N	09W	254455	4072563* 🔵	34		
SJ 00140		SJ			1	25	30N	09W	255769	4074625* 🔵	10		
SJ 01330		SJ	2	1	1	36	30N	09W	255654	4073322* 🌑	20	5	15
SJ 02092		SJ	4	4	4	33	30N	09W	252048	4072066* 🔘	32	15	17
SJ 02170		SJ	3	4	1	35	30N	09W	254257	4072752* 🌍	20	10	10
SJ 02298		SJ			3	36	30N	09W	255777	4072235* 🌑	15	4	11
SJ 02744		SJ	4	4	2	25	30N	09W	256992	4074273* 🌑	21	10	11
SJ 03565		SJ	3	4	2	35	30N	09W	255060	4072735* 🌑	20		
SJ 03859 POD1		SJ	2	2	3	35	30N	09W	254523	4072637 🌑	34	20	14
SJ 03899 POD1		SJ	4	4	4	34	30N	09W	253727	4071951 🌑	35	4	31
SJ 04050 POD1		SJ		1	4	10	30N	09W	253540	4078667 🌑	380	240	140
SJ 04066 POD1		SJ		2	4	25	30N	09W	257174	4073384 🌑	260	200	60
									ск. н П	Average Depth to	Water:	56 f	eet
								<i>v</i>		Minimum	Depth:	4 f	eet
										Maximum	Depth:	240 f	eet

Record Count: 13

PLSS Search:

Township: 30N

Range: 09W

*UTM location was derived from PLSS - see Help

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, usability, or suitability for any particular purpose of the data.