

SITE INFORMATION														
Report Type: Work Plan			RP 3960											
General Site Information:														
Site:	Eunice Yard													
Company:	Globe Energy Services													
Section, Township and Range	Unit I	Sec. 34	T 21S	R 37E										
Lease Number:														
County:	Lea County													
GPS:	32.433563° N			103.144684° W										
Surface Owner:	Chevron USA, Inc.													
Mineral Owner:														
Directions:	From intersection of Texas Ave & 4th St in Eunice, NM travel SOUTH on 4th St for approx 0.25 mi, turn EAST onto lease road for approx 0.15 mi. SW Corner of Globe Energy Yard is approx 125 feet north of lease road.													
Release Data:														
Date Released:	Unknown													
Type Release:	Produced Water													
Source of Contamination:	Frac Tank Failure													
Fluid Released:	Unknown													
Fluids Recovered:	None													
Official Communication:														
Name:	Tommy Morris		Ike Tavaréz											
Company:	Globe Energy Services		Tetra Tech											
Address:	113 Texas Ave.		4000 N. Big Spring											
			Ste 401											
City:	Eunice, NM 88231		Midland, Texas											
Phone number:	(325) 207-7775		(432) 687-8110											
Fax:														
Email:	tommy.morris@gesllc.com		Ike.Tavaréz@tetrattech.com											
Ranking Criteria														
Depth to Groundwater:		Ranking Score	Site Data											
<50 ft		20												
50-99 ft		10												
>100 ft.		0	0											
WellHead Protection:		Ranking Score	Site Data											
Water Source <1,000 ft., Private <200 ft.		20												
Water Source >1,000 ft., Private >200 ft.		0	0											
Surface Body of Water:		Ranking Score	Site Data											
<200 ft.		20												
200 ft - 1,000 ft.		10												
>1,000 ft.		0	0											
Total Ranking Score:		20												
<table border="1"> <thead> <tr> <th colspan="3">Acceptable Soil RRAL (mg/kg)</th> </tr> <tr> <th>Benzene</th> <th>Total BTEX</th> <th>TPH</th> </tr> </thead> <tbody> <tr> <td>10</td> <td>50</td> <td>100</td> </tr> </tbody> </table>						Acceptable Soil RRAL (mg/kg)			Benzene	Total BTEX	TPH	10	50	100
Acceptable Soil RRAL (mg/kg)														
Benzene	Total BTEX	TPH												
10	50	100												



July 19, 2016

Jamie Keyes
Environmental Specialist, District 1
Oil Conservation Division, EMNRD
1625 North French Drive
Hobbs, New Mexico 88240

RE: Work Plan for the Globe Energy Services, Produced Water Release Located in Unit I, Section 34, Township 21 South, Range 37 East, Lea County, New Mexico. RP #3960

Dear Mr. Keyes:

Tetra Tech was contacted by Globe Energy Services (Globe) to assess a spill located in Unit I, Section 34, Township 21 South, Range 37 East, Lea County, New Mexico (Site). The GPS coordinates for the site are N 32.433563 and W 103.144684°. The site location is shown on *Figures 1 and 2*.

Background

According to Globe, a produced water release occurred from frac tanks being stored on the south side of the Globe yard located in Eunice, New Mexico. The produced water migrated onto the adjacent property impacting the surface soils. No fluids were recovered and the volume of the fluids released is unknown. The initial C-141 for the release is enclosed in *Appendix A*.

Hydrology

According to the New Mexico Office of the State Engineer (NMOSE) website, five (5) wells were shown in Section 34 with depths to groundwater ranging from 29.0' to 48.0' below surface. The NMOCD groundwater map showed the average depth to groundwater in this area is approximately 50' below surface. However, Chevron has a groundwater investigation site located west or adjacent to the Globe Eunice facility. According to the Chevron groundwater monitoring report, dated September 26, 2012, the report indicated the depth to groundwater at approximately 27' below surface. The groundwater data is shown in *Appendix B*.

Tetra Tech

4000 North Big Spring St, Ste 401 Midland, TX 79705
Tel 432.682.4559 Fax 432.682.3946 www.tetrattech.com



According to the Ground Water Report 6, "Geology and Ground Water Conditions in Southern Lea County, New Mexico," published by the New Mexico Institute of Mining & Technology (1961), the groundwater in the area is produced from the Ogallala formation and ranges from 100' to 250' in thickness.

Groundwater and Regulatory

A risk-based evaluation will be performed for the Site in accordance with the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills and Releases, dated August 13, 1993. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. Based upon the depth to groundwater, the proposed RRAL for TPH is 100 mg/kg.

Soil Assessment and Analytical Results

On November 19, 2015, Tetra Tech personnel inspected and sampled the spill area. The impacted areas were located outside the Globe facility along the west and south fence line. A total of twenty-four (24) auger holes (AH-1 through AH-24) were installed using a stainless steel hand auger to assess the impacted soils. Soil samples were collected to depths ranging from 1.0' to 2.5'-3.0' below surface. Deeper samples were not collected due to the dense caliche formation at the site. Soil samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in *Appendix D*. The sampling results are summarized in *Table 1*. The auger hole locations are shown on *Figure 3*.

Referring to *Table 1*, all of the auger hole samples selected for BTEX analysis were below the RRAL. The areas of AH-1, AH-16 and AH-21 showed TPH concentrations above the RRAL with concentrations of 350 mg/kg, 387 mg/kg and 320 mg/kg, respectively. However, these impact areas were vertically defined in the shallow soils at a depth of approximately 1-1.5' below surface. In addition, auger holes (AH-3, AH-4, AH-8, AH-15, AH-17, AH-19, AH-20 and AH-22) exceeded the TPH RRAL and were not vertically defined. The remaining auger holes (AH-2, AH-5, AH-6, AH-7, AH-9, AH-10, AH-11, AH-12, AH-13, AH-14, AH-18, AH-23 and AH-24) did not show any TPH concentrations above the RRAL.

The areas of auger holes (AH-9 and AH-23) showed chloride concentrations of 1,370 mg/kg and 345 mg/kg at 0-1', but vertically were defined at 1-1.5' and 2-2.5', respectively. The areas of auger holes (AH-1, AH-2, AH-3, AH-4, AH-6, AH-7, AH-12, AH-13, AH-14, AH-17 and AH-21) showed chloride concentrations above the RRAL, or delineation concentration of 250 mg/kg, and were not vertically defined. The remaining auger holes (AH-5, AH-8, AH-10, AH-11, AH-15, AH-16, AH-18, AH-19, AH-20, AH-22 and AH-24) did not show any chloride concentrations in the soils above 250 mg/kg.



Borehole Installation and Sampling

To define vertical extents, Tetra Tech installed boreholes at the site. The total depth of the boreholes ranged from 4'-5' to 24-25' below surface. Deeper sample were not collected due to the shallow groundwater of approximately 27.0' below surface. The borehole drilling logs are included in *Appendix C*.

On January 20, 2016, Tetra Tech returned to the site to supervise the installation of a total of twelve (12) boreholes (BH-1 through BH-12) to assess and define the vertical extent of the impacted areas. In summary, auger holes (AH-3, AH-4, AH-8, AH-15, AH-17, AH-19, AH-20 and AH-22) exceeded the TPH RRAL and were not vertically defined below the RRAL. The areas of auger holes (AH-1, AH-2, AH-3, AH-4, AH-6, AH-7, AH-12, AH-13, AH-14, AH-17 and AH-21) showed chloride concentrations above the delineation concentration of 250 mg/kg and were not vertically defined.

Due to safety concerns with the overhead power lines, one borehole (BH-9) was placed at a midpoint between auger holes (AH-19 and AH-20). All of the remaining boreholes were installed as proposed in the approved Work Plan, dated January 18, 2016. As directed by the NMOCD, a single borehole was recommended in each area (AH-1 and AH-2) and (AH-12, AH-13 and AH-14). The two boreholes (BH-6 and BH-7) were installed in the vicinity of auger holes (AH-1 and AH-14).

An air rotary drilling rig was used to collect soil samples. A small core-barrel sampler was used to collect the samples at selected depth intervals of 0-1', 2-3', 4-5', 6-7 and 9-10' and then five (5) foot intervals thereafter. Tetra Tech inspected the soil samples for lithology characteristics and field screened the samples for conductivity and selected samples for field chlorides. In addition, soil samples were field screened for soil headspace gas survey measurements of the relative concentration of organic vapors in the soil. The Ambient Temperature Headspace (ATH) method was used at the Site for the soil headspace gas survey. The ATH method consists of collecting discrete or composite soil samples from a drilled borehole depth interval and placing the sample in a clean plastic sample bag, leaving a vacant headspace in the top of the bag. The bag was sealed, and after approximately fifteen (15) minutes of ambient temperature storage, the concentration of organic vapors in the sample bag headspace was measured using a photo-ionization detector (PID).

All of the soil samples collected for analyses were preserved in laboratory provided sample containers with standard QA/QC procedures. Samples were shipped under proper chain-of-custody control and analyzed within the standard holding times. Selected soil samples were analyzed for TPH analysis by EPA method 8015 modified and chloride by EPA method 300.0. The laboratory results are summarized in *Table 1*.

Boreholes Sample Results

Referring to *Table 1*, all of the soil samples collected from the boreholes BH-3 (AH-8), BH-4 (AH-4), BH-5 (AH-3), BH-8 (AH-15), BH-9 (AH-19 and AH-20), BH-10 (AH-17) and BH-12 (AH-22) did not show any TPH concentrations above the laboratory reporting limit.

In addition, soil samples collected at BH-7 (AH-14) did not show any chloride concentrations above 250 mg/kg. Soil samples collected at BH-10 (AH-17) and BH-11 (AH-21) did show chloride spikes of 4,210 mg/kg and 4,170 mg/kg at 2.0'-3.0' below surface, respectively. However, the chloride concentrations declined with depth to 50.8 mg/kg (BH-10) and 69.5 mg/kg (BH-11) at 19'-20' below surface.

The remaining boreholes; BH-1 (AH-6), BH-2 (AH-7), BH-4 (AH-4), BH-5 (AH-3), and BH-6 (AH-1) did not show chloride concentrations decline below 250 mg/kg at a depth of 24'-25', with concentrations of 286 mg/kg, 455 mg/kg, 1,320 mg/kg, 426 mg/kg, and 370 mg/kg, respectively. Due to shallow groundwater in the area, no samples were collected deeper than 24'-25' below surface.

Horizontal Delineation Sampling

Additional auger holes were installed approximately 3.0' outside the visible spill foot print in order to horizontally define extents. A total of sixteen (16) auger holes were installed (AH-1 H-horizontal through AH-16 H-horizontal) to depths ranging between 0-2.5' below surface. The auger hole locations are shown on *Figure 3*. All of the soil samples collected for analyses were preserved in laboratory provided sample containers with standard QA/QC procedures. Samples were shipped under proper chain-of-custody control and analyzed within the standard holding times. Selected soil samples were analyzed for TPH analysis by EPA method 8015 modified and chloride by EPA method 300.0. The laboratory results are summarized in *Table 2*.

Referring to *Table 2*, none of the samples collected at auger holes (AH-1H through AH-3H), and (AH-6H through AH-16H) showed chloride concentrations above 250 mg/kg. However, the area of auger hole (AH-4H) showed a chloride concentration of 531 mg/kg at 0'-1' below surface and deeper samples were not collected due to a dense caliche formation in the area. Additionally, the samples collected at auger hole (AH-5H) showed chloride concentrations increasing with depth from <2.00 mg/kg at 0'-1' to 316 mg/kg at 2.0'-2.5' below surface. Based on the field data, an additional step out (AH-8H) was installed for delineation, which showed chloride concentrations <250 mg/kg.

In addition, none of the samples collected at auger holes (AH-3H, AH-4H, AH-5H, AH-12H, AH-13H, AH-14H and AH-15H) showed TPH concentrations ranging from <14.9 mg/kg to 15.0 mg/kg. The area of auger hole (AH-16H) showed a TPH concentration of 825 mg/kg at 0-0.5' below surface; deeper samples were not collected due to a dense caliche formation in the area.

Proposed Work Plan

Soil Remediation

To remediate the impacted soils, Globe proposes to remove the impacted material as highlighted (green) in *Table 1* and shown on *Figure 5*. According to data and surface footprint, the impacted areas will be excavated appropriately. The impacted areas of auger holes (AH-19 and AH-20) will be excavated to 6" below surface and the areas of auger holes (AH-8, AH-9, AH-12, AH-13, AH-14, AH-15, AH-16 and AH-22) will be excavated to a depth of approximately 1.0'-1.5' below surface. Additionally, the areas of auger holes (AH-17 and AH-21) will be excavated to 2-3' below surface and the area of auger hole (AH-7) will be excavated to 4'-5' below surface.

The areas of auger holes (AH-1, AH-2, AH-3, AH-4, and AH-6) showed deeper chloride impact to the subsurface soils. These impacted areas will be excavated to depth of approximately 4'-5' below surface and capped with a 40 mil liner to prevent further migration of the chloride impact. Once completed, the excavation will be backfilled with clean soil to grade. All of the excavated material removed will be transported to a disposal facility for proper disposal.

The proposed excavation depths may not be reached due to wall cave ins and safety concerns for onsite personnel. In addition, impacted soil around oil and gas equipment, structures or lines may not be feasible or practicable to be removed due to safety concerns. As such, Tetra Tech will excavate the soils to the maximum extent practicable.

Monitor Well Construction and Sampling

Due to the shallow groundwater at the site, the NMOCD requested delineation of the soils for chlorides to 250 mg/kg. In addition, if the chloride concentrations were not defined within 10 feet from the top of groundwater, a monitor well would be required to assess the groundwater qualities for that area. Based on the soil assessment, some of the boreholes were not vertically defined at 24-25' below surface. The depth to groundwater in the area shows to be approximately 25'-30' below surface.

Based on the borehole results, Globe proposes to install a total of three (3) monitor wells in order to evaluate the groundwater qualities at the site. The areas of BH-1 (AH-6), BH-2 (AH-7), BH-4 (AH-4), BH-5 (AH-3) and BH-6 (AH-1) were not defined below 250 mg/kg at 24-25' below surface. One monitor well is proposed in the area of BH-4 (AH-4), one between the areas of BH-1 (AH-6) and BH-2 (AH-7) and one in the area of BH-6 (AH-1). Prior to the installation of the monitor wells, appropriate permits will be obtained from the New Mexico Office of the State Engineer (NMOSE). The proposed monitor well locations are shown on *Figure 6*.

Tetra Tech will supervise the installation of permanent monitor wells to a total depth of approximately 50' below surface using an air rotary rig. The monitor wells will be constructed of 2-inch diameter, screw threaded, schedule 40 PVC casing and 0.020



inch factory slotted screen. The well screens, approximately thirty (30) feet in length, will be installed with approximately 20.0' of screen into the groundwater and 5'-10' above the groundwater. The well screens will be filter packed with graded (20-40) silica sand, which will be placed in the annular space between the borehole wall and screen to a depth of approximately two (2) feet above the screen. Bentonite pellets (hydrated) will be placed on top of the sand to complete the well. The wells will be secured with a locking water tight cap, and a steel sleeve will be placed around the well. In addition, the monitor wells (3) will be surveyed by a licensed professional surveyor.

Once completed, the monitor wells will be properly developed and all of the fluids will be contained in drums for proper disposal. At the time of sampling, the well caps will be opened and water level measurements will be collected from the top of the casing. The depth to water measurements will be recorded to the nearest 0.01 foot.

Prior to sampling, approximately three (3) casing volumes of water will be purged from each well using a dedicated bailer and disposable line. All water generated for the purging will be contained in drums for proper disposal. The groundwater samples will be placed into labeled and preserved containers provided by the laboratory and analyzed for chlorides by EPA method 300.0 and BTEX by EPA Method 8021B.

Data Evaluation and Reporting

Upon receipt of analytical data from the laboratory, Tetra Tech will assemble all data for presentation in a report. The assessment report will contain discussions of all of the soil remediation activities and groundwater evaluation. Based on the groundwater results, a work plan will be prepared for any additional proposed activities at the site, if needed.

Tetra Tech will schedule the proposed field activities following your review and approval. If you require any additional information or have any questions or comments concerning this work plan, please call at (432) 682-4559.

Respectfully submitted,
TETRA TECH

A handwritten signature in blue ink, appearing to read 'Ike Tavarez'.

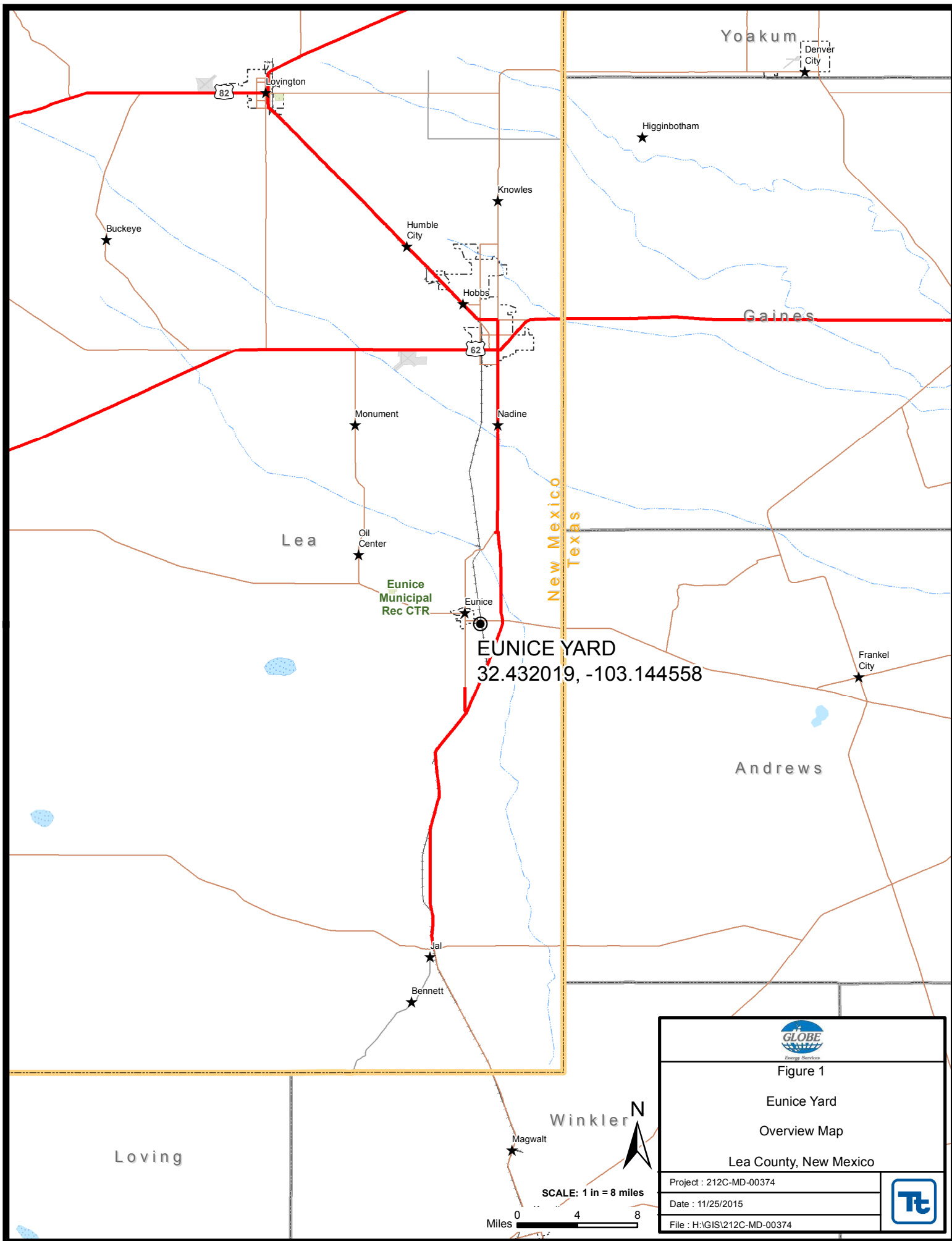
Ike Tavarez, P.G.
Project Manager/Senior Geologist

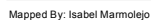
A handwritten signature in blue ink, appearing to read 'Clair Gonzales'.

Clair Gonzales,
Geologist

cc: Tommy Morris -Globe
Kegan Boyer - Chevron

Figures





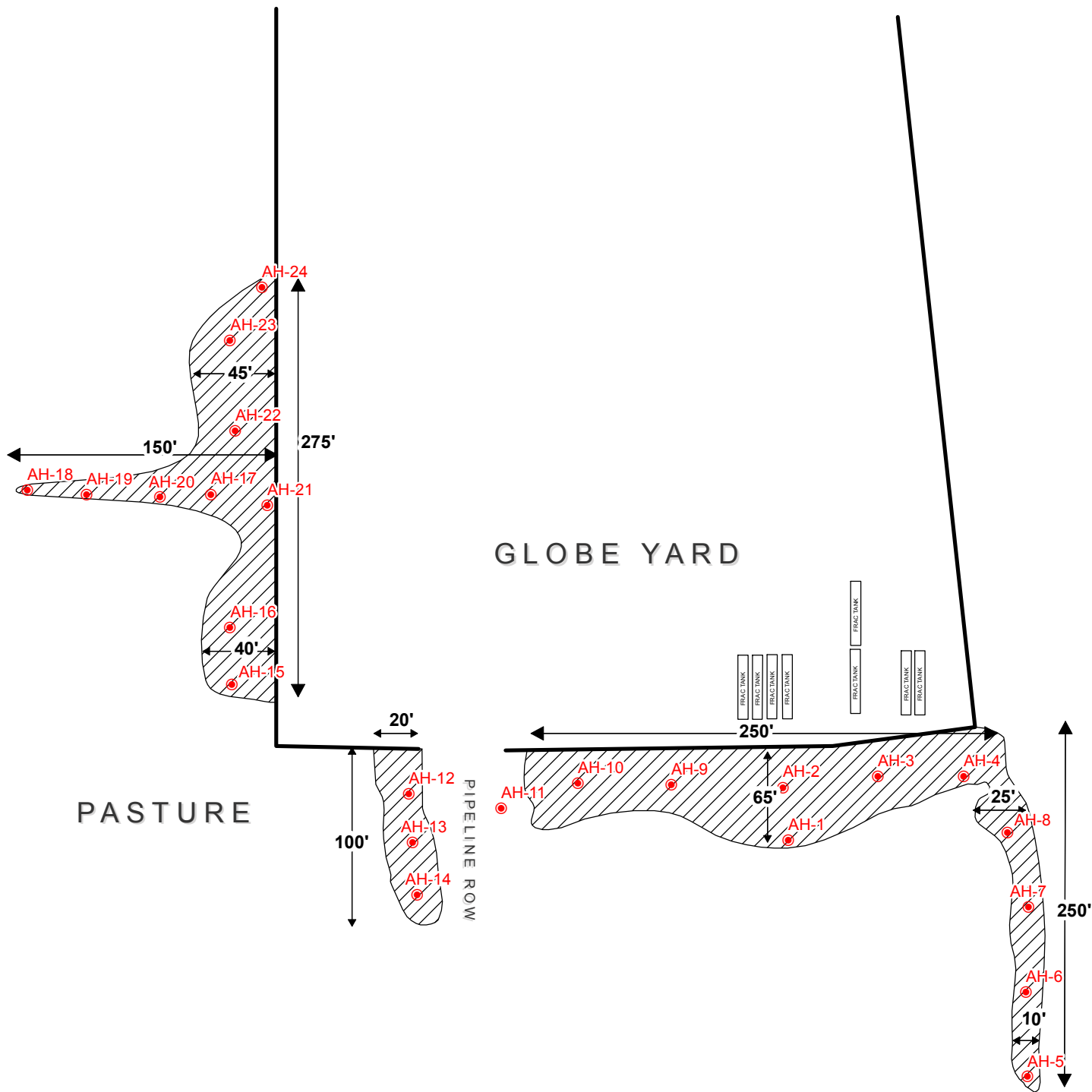


Figure 3

Eunice Yard

Spill Assessment Map

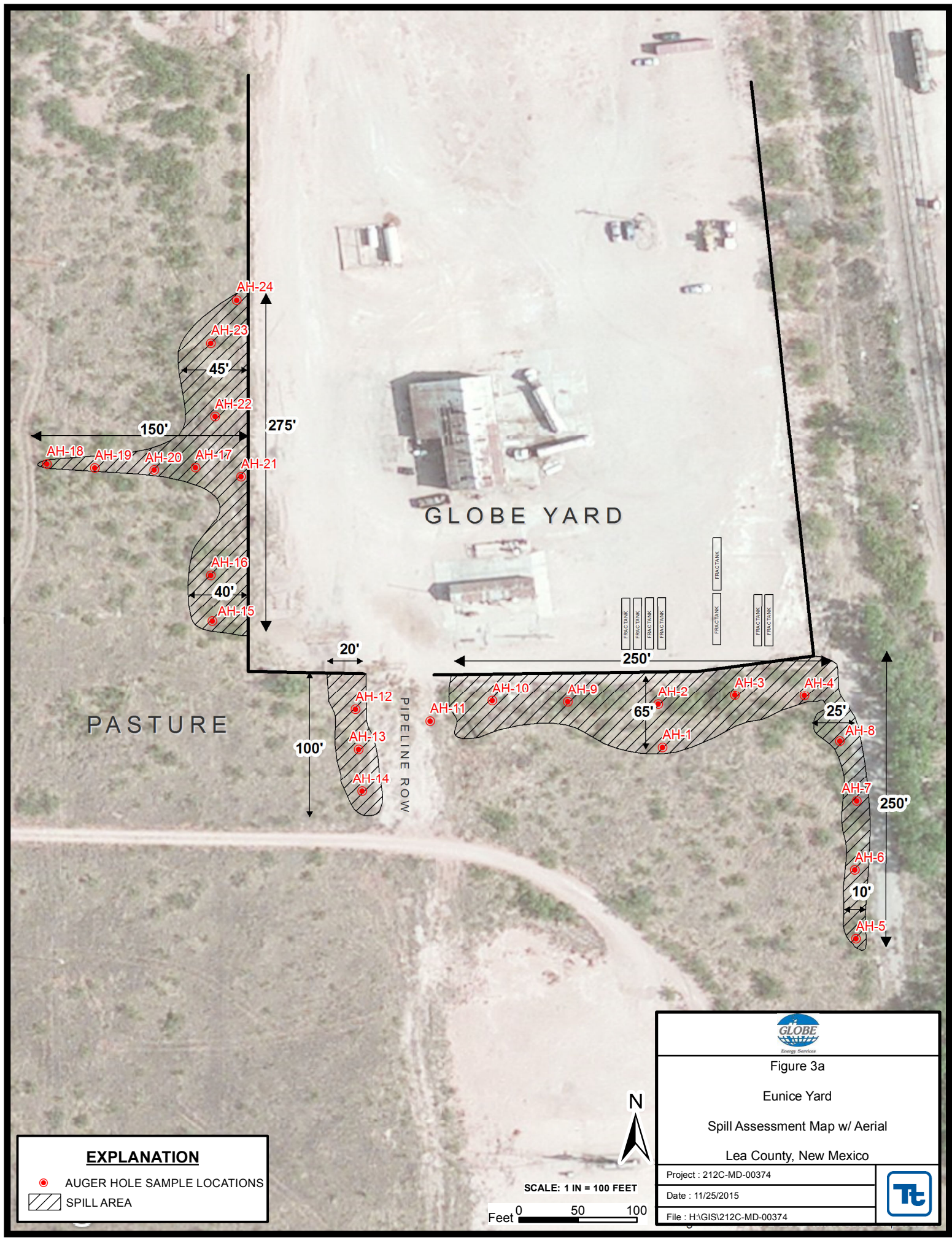
Lea County, New Mexico

Project : 212C-MD-00374

Date : 11/25/2015

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EXPLANATION

- AUGER HOLE SAMPLE LOCATIONS
- SPILL AREA



Figure 3a

Eunie Yard

Spill Assessment Map w/ Aerial

Lea County, New Mexico

Project : 212C-MD-00374

Date : 11/25/2015

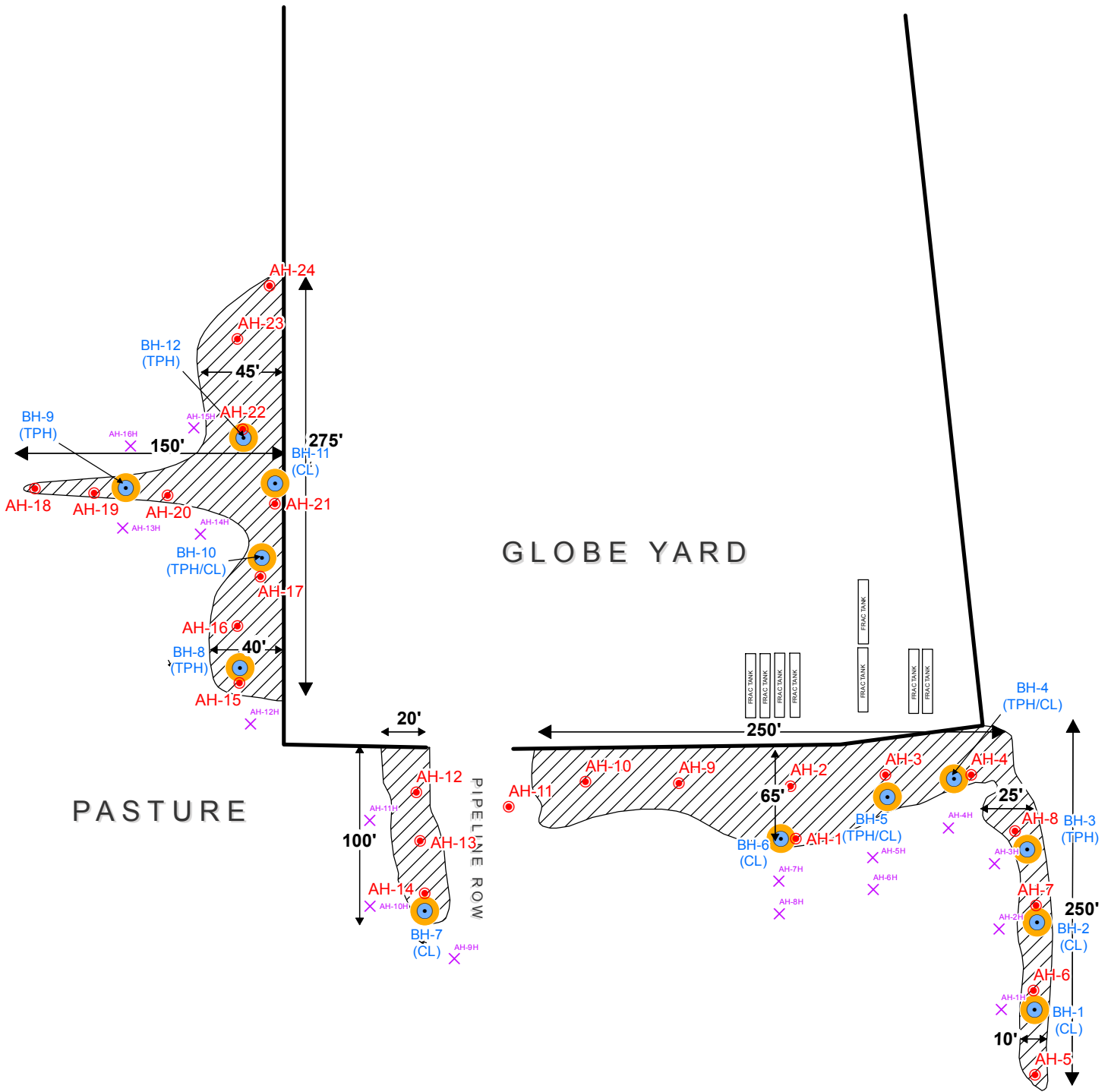
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N

SCALE: 1 IN = 100 FEET

Feet 0 50 100



BH(TPH/CL) = BOREHOLE & CONSTITUENTS OF CONCERN
 TPH= TOTAL PETROLEUM HYDROCARBON
 CL= CHLORIDE

EXPLANATION

- ✕ ADDITIONAL AUGER HOLE LOCATIONS
- AUGER HOLE SAMPLE LOCATIONS
- BOREHOLE SAMPLE LOCATIONS
- ▨ SPILL AREA



SCALE: 1 IN = 100 FEET

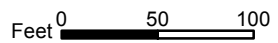


Figure 4

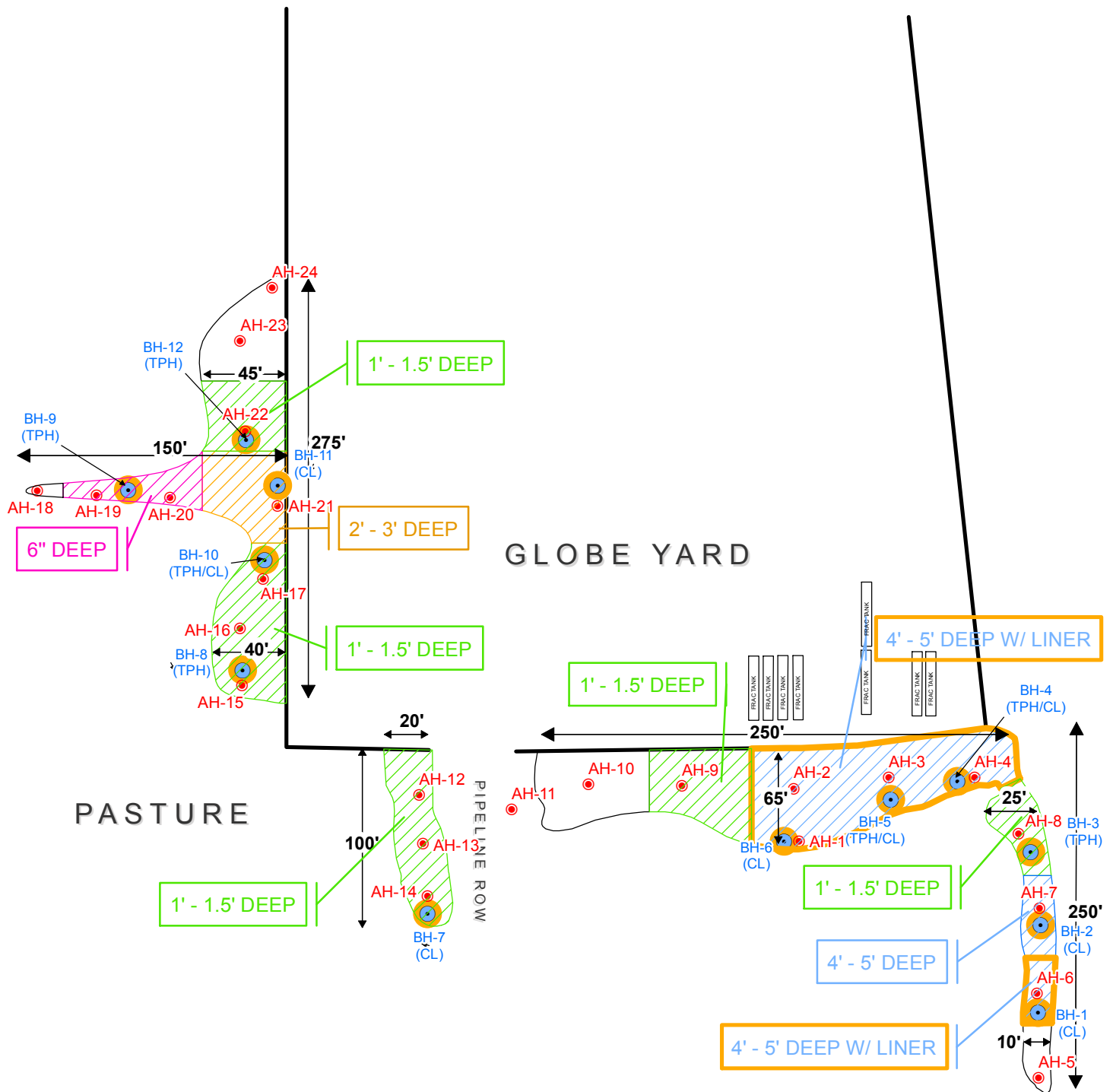
Eunice Yard

Borehole & Sample Location Map
 (Constituents of Concern)

Lea County, New Mexico

Project : 212C-MD-00374
Date : 03/18/2016
File : H:\GIS\212C-MD-00374





BH(TPH/CL) = BOREHOLE & CONSTITUENTS OF CONCERN
 TPH= TOTAL PETROLEUM HYDROCARBON
 CL= CHLORIDE

EXPLANATION

- AUGER HOLE SAMPLE LOCATIONS
- BOREHOLE SAMPLE LOCATIONS
- EXCAVATION AREAS



SCALE: 1 IN = 100 FEET
 Feet 0 50 100



Figure 5

Eunie Yard

Proposed Excavation Areas & Depths Map

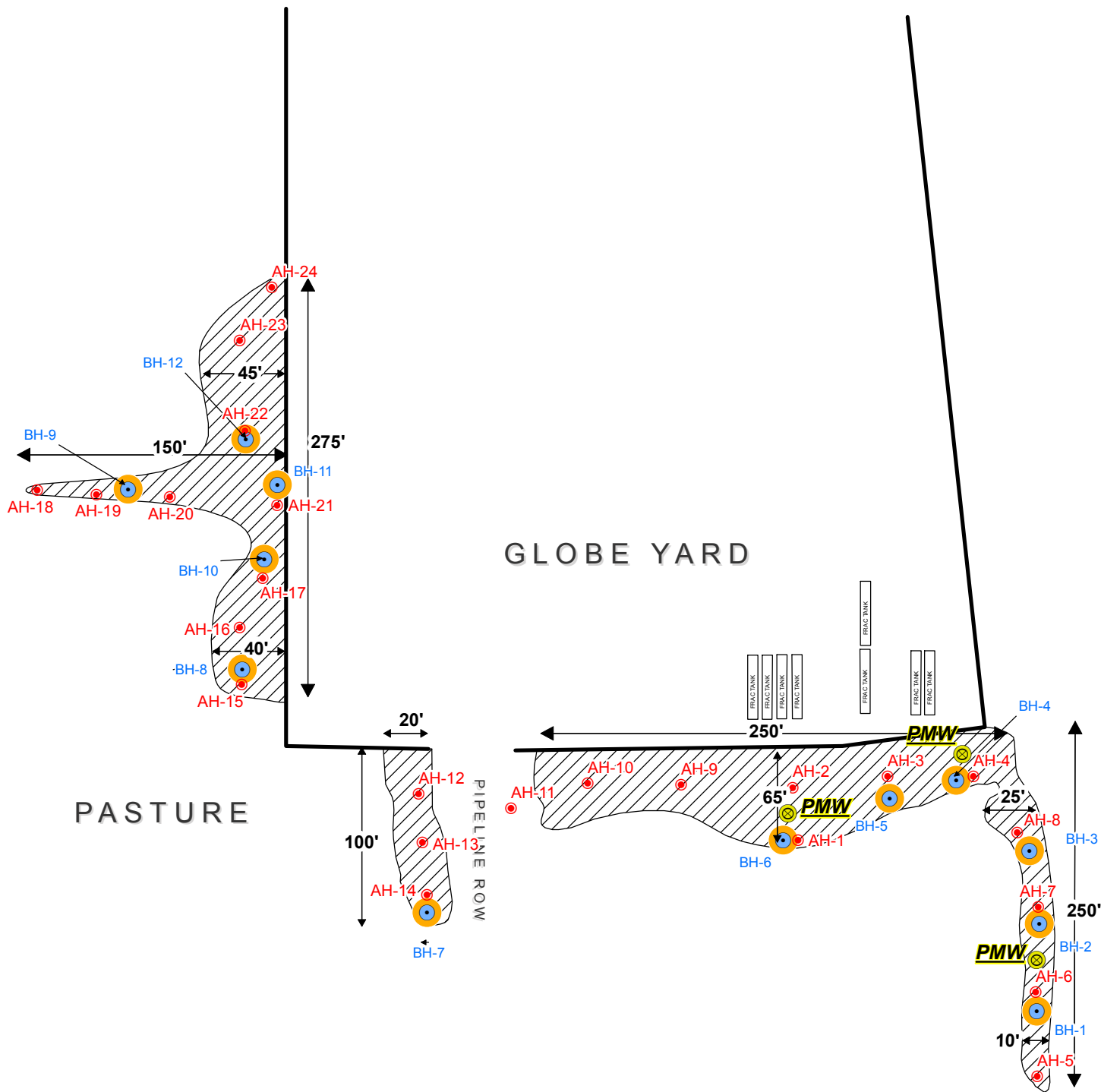
Lea County, New Mexico

Project : 212C-MD-00374

Date : 04/29/2016

File : H:\GIS\212C-MD-00374





EXPLANATION

- AUGER HOLE SAMPLE LOCATIONS
- BOREHOLE SAMPLE LOCATIONS
- PROPOSED MONITOR WELL LOCATIONS
- SPILL AREA



SCALE: 1 IN = 100 FEET

Feet 0 50 100



Figure 6

Eunice Yard

Proposed Monitor Well Location Map

Lea County, New Mexico

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Date : 03/18/2016

File : H:\GIS\212C-MD-00374



Tables

Table 1
Globe Energy
Globe Eunice Facility
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)			Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	Total						
AH-1	11/19/2015	0-1	X		<15.0	350	350	<0.00101	<0.00202	<0.00101	<0.00101	<0.00101	320
	"	1-1.5	X		16.6	<15.0	16.6	-	-	-	-	-	1,020
	"	2-2.5	X		-	-	-	-	-	-	-	-	4,590
BH-6	1/21/2016	0-1	X		-	-	-	-	-	-	-	-	525
	"	2-3	X		-	-	-	-	-	-	-	-	3,700
	"	4-5	X		-	-	-	-	-	-	-	-	7,630
	"	6-7	X		-	-	-	-	-	-	-	-	1,920
	"	9-10	X		-	-	-	-	-	-	-	-	1,620
	"	14-15	X		-	-	-	-	-	-	-	-	720
	"	19-20	X		-	-	-	-	-	-	-	-	235
	"	24-25	X		-	-	-	-	-	-	-	-	370
AH-2	11/19/2015	0-1	X		<14.9	<14.9	<14.9	-	-	-	-	-	3,080
	"	1-1.5	X		-	-	-	-	-	-	-	-	2,800
AH-3	11/19/2015	0-1	X		<15.0	826	826	<0.00166	<0.00332	<0.00166	<0.00166	<0.00166	625
BH-5	1/20/2016	0-1	X		-	-	-	-	-	-	-	-	133
	"	2-3	X		<15.0	<15.0	<15.0	-	-	-	-	-	7,070
	"	4-5	X		-	-	-	-	-	-	-	-	3,150
	"	6-7	X		-	-	-	-	-	-	-	-	1,340
	"	9-10	X		-	-	-	-	-	-	-	-	234
	"	14-15	X		-	-	-	-	-	-	-	-	146
	"	19-20	X		-	-	-	-	-	-	-	-	44.2
	"	24-25	X		-	-	-	-	-	-	-	-	426

Table 1
Globe Energy
Globe Eunice Facility
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)			Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	Total						
AH-4	11/19/2015	0-1	X		116	2,690	2,810	<0.00101	<0.00202	<0.00101	<0.00101	<0.00101	676
	"	1-1.5	X		<15.0	183	183	-	-	-	-	-	971
	"	2-2.5	X		<15.0	223	223	<0.00101	<0.00202	<0.00101	<0.00101	<0.00101	4,080
	"	2.5-3	X		<15.0	133	133	-	-	-	-	-	5,190
BH-4	1/20/2016	0-1	X		-	-	-	-	-	-	-	-	4,880
	"	2-3	X		-	-	-	-	-	-	-	-	6,460
	"	4-5	X		<15.0	<15.0	<15.0	-	-	-	-	-	9,060
	"	6-7	X		-	-	-	-	-	-	-	-	6,570
	"	9-10	X		-	-	-	-	-	-	-	-	10,200
	"	14-15	X		-	-	-	-	-	-	-	-	10,100
	"	19-20	X		-	-	-	-	-	-	-	-	3,780
	"	24-25	X		-	-	-	-	-	-	-	-	1,320
AH-5	11/19/2015	0-1	X		<15.0	<15.0	<15.0	-	-	-	-	-	110
	"	1-1.5	X		-	-	-	-	-	-	-	-	32.2
	"	2-2.5	X		-	-	-	-	-	-	-	-	70.9
	"	2.5-3	X		-	-	-	-	-	-	-	-	29.7
AH-6	11/19/2015	0-1	X		<15.0	<15.0	<15.0	-	-	-	-	-	3,050
BH-1	1/20/2016	0-1	X		-	-	-	-	-	-	-	-	11.4
	"	2-3	X		-	-	-	-	-	-	-	-	2,740
	"	4-5	X		-	-	-	-	-	-	-	-	8,850
	"	6-7	X		-	-	-	-	-	-	-	-	2,960
	"	9-10	X		-	-	-	-	-	-	-	-	217
	"	14-15	X		-	-	-	-	-	-	-	-	840
	"	19-20	X		-	-	-	-	-	-	-	-	505
	"	24-25	X		-	-	-	-	-	-	-	-	286

Table 1
Globe Energy
Globe Eunice Facility
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)			Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	Total						
AH-7	11/19/2015	0-1	X		<15.0	<15.0	<15.0	-	-	-	-	-	588
BH-2	1/20/2016	0-1	X		-	-	-	-	-	-	-	-	2,360
	"	2-3	X		-	-	-	-	-	-	-	-	8,890
	"	4-5	X		-	-	-	-	-	-	-	-	2,030
	"	6-7	X		-	-	-	-	-	-	-	-	619
	"	9-10	X		-	-	-	-	-	-	-	-	338
	"	14-15	X		-	-	-	-	-	-	-	-	381
	"	19-20	X		-	-	-	-	-	-	-	-	99.0
	"	24-25	X		-	-	-	-	-	-	-	-	455
AH-8	11/19/2015	0-1	X		107	1,260	1,370	<0.00164	<0.00328	<0.00164	<0.00164	<0.00164	44.1
BH-3	1/21/2016	0-1	X										
	"	2-3	X		<14.9	<14.9	<14.9	-	-	-	-	-	-
	"	4-5	X										
	"	6-7	X										
	"	9-10	X										
AH-9	11/19/2015	0-1	X		<15.0	<15.0	<15.0	-	-	-	-	-	1,370
	"	1-1.5	X		-	-	-	-	-	-	-	-	32.6
AH-10	11/19/2015	0-1	X		<15.0	<15.0	<15.0	-	-	-	-	-	215
AH-11	11/19/2015	0-1	X		<15.0	<15.0	<15.0	-	-	-	-	-	64.4
	"	1-1.5	X		-	-	-	-	-	-	-	-	69.3
AH-12	11/19/2015	0-1	X		<15.0	<15.0	<15.0	-	-	-	-	-	1,230
AH-13	11/19/2015	0-1	X		<14.9	<14.9	<14.9	-	-	-	-	-	610

Table 1
Globe Energy
Globe Eunice Facility
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)			Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	Total						
AH-14	11/19/2015	0-1	X		<15.0	<15.0	<15.0	-	-	-	-	-	1,340
BH-7	1/21/2016	0-1	X		-	-	-	-	-	-	-	-	15.3
	"	2-3	X		-	-	-	-	-	-	-	-	41.5
	"	4-5	X		-	-	-	-	-	-	-	-	8.38
AH-15	11/19/2015	0-0.5	X		<15.0	566	566	<0.000992	<0.00198	<0.000992	<0.000992	<0.000992	8.83
BH-8	1/21/2016	0-1	X										
	"	2-3	X		<14.9	<14.9	<14.9	-	-	-	-	-	-
	"	4-5	X										
	"	6-7	X										
	"	9-10	X										
AH-16	11/19/2015	0-1	X		<15.0	387	387	<0.00101	<0.00201	<0.00101	<0.00101	<0.00101	20.4
	"	1-1.5	X		<15.0	<15.0	<15.0	-	-	-	-	-	36.5
AH-17	11/19/2015	0-1	X		<15.0	283	283	-	-	-	-	-	3,210
BH-10	1/21/2016	0-1	X		-	-	-	-	-	-	-	-	131
	"	2-3	X		<15.0	<15.0	<15.0	-	-	-	-	-	4,210
	"	4-5	X		-	-	-	-	-	-	-	-	259
	"	6-7	X		-	-	-	-	-	-	-	-	128
	"	9-10	X		-	-	-	-	-	-	-	-	254
	"	14-15	X		-	-	-	-	-	-	-	-	196
	"	19-20	X		-	-	-	-	-	-	-	-	50.8
	"	24-25	X		-	-	-	-	-	-	-	-	76.1

Table 1
Globe Energy
Globe Eunice Facility
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)			Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	Total						
AH-18	11/19/2015	0-0.5	X		<15.0	24.7	24.7	-	-	-	-	-	47.9
AH-19	11/19/2015	0-0.5	X		<15.0	224	224	-	-	-	-	-	14.6
BH-9 (AH-19 & AH-20)	1/21/2016	0-1	X										
	"	2-3	X		<15.0	<15.0	<15.0	-	-	-	-	-	-
	"	4-5	X										
	"	6-7	X										
	"	9-10	X										
AH-20	11/19/2015	0-0.5	X		<15.0	299	299	-	-	-	-	-	36.8
AH-21	11/19/2015	0-1	X		<15.0	320	320	<0.000996	<0.00199	<0.000996	<0.000996	<0.000996	15.4
	"	1-1.5	X		<15.0	36.7	36.7	-	-	-	-	-	727
BH-11	1/21/2016	0-1	X		-	-	-	-	-	-	-	-	<2.00
	"	2-3	X		-	-	-	-	-	-	-	-	4,170
	"	4-5	X		-	-	-	-	-	-	-	-	82.2
	"	6-7	X		-	-	-	-	-	-	-	-	14.3
	"	9-10	X		-	-	-	-	-	-	-	-	78.0
	"	14-15	X		-	-	-	-	-	-	-	-	40.7
	"	19-20	X		-	-	-	-	-	-	-	-	69.5
AH-22	11/19/2015	0-1	X		<14.9	530	530	<0.00101	<0.00202	<0.00101	<0.00101	<0.00101	8.36
	"	1-1.5	X		<15.0	375	375	<0.00164	<0.00329	<0.00164	<0.00164	<0.00164	7.64
BH-12	1/21/2016	2-3	X		<15.0	<15.0	<15.0	-	-	-	-	-	-
AH-23	11/19/2015	0-1	X		<15.0	<15.0	<15.0	-	-	-	-	-	345
	"	1-1.5	X		-	-	-	-	-	-	-	-	284
	"	2-2.5	X		-	-	-	-	-	-	-	-	104
AH-24	11/19/2015	0-1	X		<15.0	<15.0	<15.0	-	-	-	-	-	30.5

(-) Not Analyzed

AH Auger holes (Hand Auger holes)

BH Boreholes (Air Rotary Rig)

Proposed Excavation Areas and Depths

Proposed 40 mil Liner for Capping Soils

Table 2
Globe Energy
Globe Eunice Facility
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)			Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	Total	
AH-1 horizontal	1/21/2016	0-1	X		-	-	-	2.33
AH-2 horizontal	1/21/2016	0-1	X		-	-	-	<2.00
	"	1-1.5	X		-	-	-	2.93
AH-3 horizontal	1/21/2016	0-1	X		<14.9	<14.9	<14.9	-
AH-4 horizontal	1/21/2016	0-1	X		<15.0	<15.0	<15.0	531
AH-5 horizontal	1/21/2016	0-1	X		<15.0	<15.0	<15.0	<2.00
	"	1-1.5	X		-	-	-	3.45
	"	2-2.5	X		-	-	-	316
AH-6 horizontal	1/21/2016	0-1	X		-	-	-	2.80
	"	1-1.5	X		-	-	-	<2.00
	"	2-2.5	X		-	-	-	4.00
AH-7 horizontal	1/21/2016	0-1	X		-	-	-	30.1
	"	1-1.5	X		-	-	-	216
AH-8 horizontal (AH-7 step out)	1/21/2016	0-1	X		-	-	-	3.58
	"	1-1.5	X		-	-	-	8.93
AH-9 horizontal	1/21/2016	0-1	X		-	-	-	5.52
	"	1-1.5	X		-	-	-	9.80
AH-10 horizontal	1/21/2016	0-1	X		-	-	-	11.3
	"	1-1.5	X		-	-	-	18.9
AH-11 horizontal	1/21/2016	0-1	X		-	-	-	3.34
AH-12 horizontal	1/21/2016	0-1	X		<14.9	<14.9	<14.9	-
AH-13 horizontal	1/21/2016	0-0.5	X		<15.0	<15.0	<15.0	4.31
AH-14 horizontal	1/21/2016	0-0.5	X		15.0	<15.0	15.0	18.8
AH-15 horizontal	1/21/2016	0-1	X		<15.0	<15.0	<15.0	<2.00
	"	1-1.5	X		-	-	-	<2.00
AH-16 horizontal	1/21/2016	0-0.5	X		23.4	711	734	2.62

(-)

Not Analyzed

Photos

Globe Energy
Eunice NM Yard
Lea County, New Mexico



TETRA TECH



View West – Area of AH-1 and AH-2



View East – Area of AH-4

Globe Energy
Eunice NM Yard
Lea County, New Mexico



TETRA TECH



View South – Area of AH-7 and AH-8



View South– Area of AH-5 and AH-6

Globe Energy
Eunice NM Yard
Lea County, New Mexico



TETRA TECH



View South – Area of AH-12, AH-13 and AH-14



View Northeast – Area of AH-15 and AH-16

Globe Energy
Eunice NM Yard
Lea County, New Mexico



TETRA TECH



View West – Area of AH-17, AH-18 and AH-19



View Northeast – Area of AH-22, AH-23, and AH-24

Globe Energy
Eunice NM Yard
Lea County, New Mexico



TETRA TECH



View East – Area of BH-1



View East – Area of BH-2

Globe Energy
Eunice NM Yard
Lea County, New Mexico



TETRA TECH



View North – Area of BH-3



View West – Area of BH-4

Globe Energy
Eunice NM Yard
Lea County, New Mexico



TETRA TECH



View North – Area of BH-5



View North – Area of BH-6

Globe Energy
Eunice NM Yard
Lea County, New Mexico



TETRA TECH



View East – Area of BH-8



View North – Area of BH-10, BH-11, and BH-12

Globe Energy
Eunice NM Yard
Lea County, New Mexico



TETRA TECH



View West – Area of BH-9

Appendix A

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

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

RECEIVED

By JKeyes at 3:27 pm, Nov 05, 2015

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: Globe Energy Services	Contact: Tommy Morris	
Address: 113 Texas Ave. Eunice, NM 88231	Telephone No.: (325) 207-7775	
Facility Name: Eunice Fluid Services	Facility Type: Fluid Hauling	
Surface Owner: Chevron USA Inc.	Mineral Owner	API No.

LOCATION OF RELEASE

Unit Letter I	Section 34	Township 21S	Range 37E	Feet from the	North/South Line	Feet from the	East/West Line	County Lea
-------------------------	----------------------	------------------------	---------------------	---------------	------------------	---------------	----------------	----------------------

Latitude 32.43356300 Longitude -103.14468400

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: Unknown	Volume Recovered: None
Source of Release: Frac Tanks	Date and Hour of Occurrence: Unknown	Date and Hour of Discovery: October 26th, 2015
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Jamie Keyes	
By Whom? Tommy Morris	Date and Hour: October 26th, 2015	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. N/A	
If a Watercourse was Impacted, Describe Fully.* N/A		
Describe Cause of Problem and Remedial Action Taken.* Release of produced water from frac tanks that were being stored on the south side of the Globe yard in Eunice New Mexico. The fluids migrated offsite onto the adjacent property. Tetra Tech will sample the areas of concern to evaluate to the subsurface soils and present a remediation plan to the NMOCD prior to any significant remediation work.		
Describe Area Affected and Cleanup Action Taken.* The area of concern affected is South of Globe Energy's property line; outside the fence		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Tommy Morris	Approved by Environmental Specialist: 	
Title: HSE Director	Approval Date: 11/05/2015	Expiration Date: 01/06/2015
E-mail Address: tommy.morris@gesllc.com	Conditions of Approval: Discrete site samples required. Delineate and remediate per NMOCD guidelines.	Attached <input type="checkbox"/> IRP 3960
Date: 11-5-15 Phone: 325-207-7775	Geotagged photos of remediation required.	

* Attach Additional Sheets If Necessary

nJXK1530955218
pJXK1530955355

Appendix B

Water Well Data
Average Depth to Groundwater (ft)
Globe Eunice Facility
Lea County, New Mexico

20 South			37 East		
6	37	5	38	4	22
7	36	8	35	9	
18	17	16	15	14	78
19	20	21	22	23	24
35	30	29	28	27	26
			40	34	35
			198		

20 South			38 East		
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

20 South			39 East		
6	5	4			
7	8	9			
18	17	16			
19	20	21			
30	29	28			
31	32	33			

21 South			36 East		
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
106		195			
19	20	21	22	23	130
				150	
30	29	28	27	26	25
				150	148
31	32	33	34	35	36

21 South			37 East		
6	73	5	4	75	3
7	8	9	10	11	12
18	17	16	15	14	13
19	71	20	21	22	23
	98			53	
30	29	28	27	26	25
	85		71	76	
31	32	33	34	29	35
		100		48	36

21 South			38 East		
6	5	4			
7	8	9			
18	17	16			
19	20	21			
30	29	28			
31	32	33			

22 South			36 East		
6	5	4	3	2	1
195	212				137
7	8	9	10	11	12
18	17	16	15	14	13
		170			
19	20	21	22	23	24
			22		
30	29	28	27	26	25
			160		118
31	32	33	34	35	181
				187	36

22 South			37 East		
6	5	85	4	3	2
7	8	9	90	10	11
18	17	16	15	14	13
190			125	65	
19	20	21	22	23	24
		65			60
30	29	28	27	26	25
			53	65	
31	32	33	34	35	36

22 South			38 East		
6	5	4			
7	8	9			
18	17	16			
19	20	21			
30	29	28			
31	32	33			

- 88** New Mexico State Engineers Well Reports
- 105** USGS Well Reports
- 90** Geology and Groundwater Conditions in Southern Lea, County, NM (Report 6)
- Geology and Groundwater Resources of Eddy County, NM (Report 3)
- 34** NMOCD - Groundwater Data
- 123 Tetra Tech installed temporary wells and field water level
- 143** NMOCD Groundwater map well location



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-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
CP 00835			LE			3	34	21S	37E	673454	3589786*	145		
CP 00943 POD1			LE	1	3	1	34	21S	37E	673166	3590405	142		
CP 01145 POD1			LE	2	2	2	34	21S	37E	674514	3590848	90		
CP 01358 POD1			LE	2	1	4	34	21S	37E	674134	3589539	65	48	17
CP 01358 POD2			LE	4	4	2	34	21S	37E	674497	3589676	42	29	13
CP 01358 POD3			LE	4	4	1	34	21S	37E	674434	3589782	45	32	13
CP 01358 POD4			LE	4	2	3	34	21S	37E	674307	3589974	45	40	5
CP 01358 POD5			LE	4	2	1	34	21S	37E	674306	3590035	58	41	17
CP 01358 POD6			LE	4	2	3	34	21S	37E	674271	3589921	26		

Average Depth to Water: 38 feet

Minimum Depth: 29 feet

Maximum Depth: 48 feet

Record Count: 9

PLSS Search:

Section(s): 34

Township: 21S

Range: 37E

*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.



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
CP 00014		LE		1	3	2	23	21S	37E	675492	3593749*	84		
CP 00017		LE		2	1	2	27	21S	37E	674106	3592513*	101		
CP 00111		LE			2	3	36	21S	37E	676864	3590052*	90		
CP 00133		LE		2	2	4	35	21S	37E	676159	3590137*	80		
CP 00134		LE		1	1	1	24	21S	37E	676289	3594166*	85		
CP 00137		LE		2	2	1	13	21S	37E	676862	3595783*	65		
CP 00138		LE		3	2	2	35	21S	37E	675944	3590741*	70		
CP 00162		LE		1	4	2	09	21S	37E	672621	3596915*	120		
CP 00163		LE		1	4	2	09	21S	37E	672621	3596915*	120		
CP 00164		LE		2	1	1	21	21S	37E	671665	3594080*	120		
CP 00197		LE		1	4	1	01	21S	37E	676611	3598599*	85		
CP 00212		LE		2	2	1	14	21S	37E	675254	3595753*	46		
CP 00214		LE		2	1	4	35	21S	37E	675757	3590129*	80		
CP 00220		LE		1	1	3	25	21S	37E	676332	3591753*	75		
CP 00221		LE		2	1	3	35	21S	37E	674953	3590115*	290		
CP 00223		LE		3	2	4	35	21S	37E	675959	3589937*	110		
CP 00224		LE		4	3	3	23	21S	37E	674902	3592730*	96		
CP 00225		LE		2	2	4	35	21S	37E	676159	3590137*	85		
CP 00226		LE		1	4	4	26	21S	37E	675937	3591344*	80		
CP 00227		LE		2	3	4	26	21S	37E	675735	3591336*	85		
CP 00228		LE		4	3	4	26	21S	37E	675735	3591136*	90		
CP 00229		LE		4	3	4	35	21S	37E	675764	3589527*	85		
CP 00230		LE		3	2	3	26	21S	37E	675126	3591531*	85		
CP 00235		LE		2	2	1	23	21S	37E	675283	3594144*	81		
CP 00236		LE		3	1	2	23	21S	37E	675485	3593952*	83		
CP 00238		LE		3	3	2	23	21S	37E	675492	3593549*	81		

*UTM location was derived from PLSS - see Help

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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-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
CP 00239		LE		1	1	2	23	21S	37E	675485	3594152*	89		
CP 00240		LE		4	2	1	23	21S	37E	675283	3593944*	72		
CP 00241		LE		4	2	1	23	21S	37E	675283	3593944*	76		
CP 00242		LE		3	4	2	28	21S	37E	672708	3591889*	112		
CP 00249		LE		2	3	2	27	21S	37E	674113	3592111*	102		
CP 00250		LE		2	3	2	27	21S	37E	674113	3592111*	101		
CP 00251		LE		2	3	4	22	21S	37E	674099	3592915*	103		
CP 00252		LE		4	2	4	22	21S	37E	674493	3593125*	106		
CP 00253		LE		3	4	2	27	21S	37E	674315	3591918*	101		
CP 00293		LE		2	4	1	27	21S	37E	673711	3592104*	80		
CP 00322		LE				3	28	21S	37E	671818	3591366*	138	73	65
CP 00346		LE		1	3	1	27	21S	37E	673110	3592096*	90		
CP 00447		LE		2	4	4	18	21S	37E	669647	3594451*	95		
CP 00552		LE			2	4	04	21S	37E	672700	3598022*	90	75	15
CP 00553		LE			2	4	04	21S	37E	672700	3598022*	90	75	15
CP 00554		LE			2	2	16	21S	37E	672744	3595610*	80	70	10
CP 00562		LE		1	2	2	23	21S	37E	675887	3594159*	136	65	71
CP 00676		LE			4	4	18	21S	37E	669548	3594352*	140	106	34
CP 00700		LE				2	23	21S	37E	675794	3593851*	75	65	10
CP 00711		LE		4	2	2	28	21S	37E	672900	3592291*	100	65	35
CP 00726		LE			2	4	33	21S	37E	672844	3589980*	125	100	25
CP 00735		LE			2	4	28	21S	37E	672816	3591588*	105		
CP 00736		LE			3	1	27	21S	37E	673211	3591997*	120	76	44
CP 00749		LE		2	4	3	28	21S	37E	672118	3591271*	123	75	48
CP 00835		LE				3	34	21S	37E	673454	3589786*	145		
CP 00877		LE					06	21S	37E	668920	3598153*	150	73	77
CP 00881		LE			4	4	22	21S	37E	674402	3592824*	95	53	42
CP 00895		LE			1	1	20	21S	37E	669957	3593956*	163		
CP 00914 EXPL		LE		4	3	1	36	21S	37E	676554	3590346*	72		

*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-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
CP 00943 POD1		LE		1	3	1	34	21S	37E	673166	3590405	142		
CP 00965 POD1	R	LE		1	3	4	28	21S	37E	672333	3591346	123	60	63
CP 00965 POD2		LE		1	3	4	28	21S	37E	672273	3591336	135		
CP 00966 POD1		LE		1	3	4	28	21S	37E	672306	3591367	154		
CP 00985 POD1		LE		4	4	2	19	21S	37E	669595	3593453	160		
CP 00986 POD1		LE		4	3	4	06	21S	37E	669110	3597437	154		
CP 01026 POD1		LE		1	1	3	17	21S	37E	669809	3594958	167	95	72
CP 01077 POD1		LE		1	2	2	33	21S	37E	672710	3590940	80	45	35
CP 01141 POD2		LE		3	4	3	15	21S	37E	673541	3594250	40		
CP 01141 POD3		LE		3	4	3	15	21S	37E	673541	3594250	40		
CP 01141 POD4		LE		3	4	3	15	21S	37E	673541	3594250	45		
CP 01145 POD1		LE		2	2	2	34	21S	37E	674514	3590848	90		
CP 01185 POD1		LE		1	3	14	21S	37E	674598	3594689	70			
CP 01185 POD2		LE		1	3	14	21S	37E	674623	3594674	70			
CP 01185 POD3		LE		1	3	14	21S	37E	674592	3594620	70			
CP 01185 POD4		LE		1	3	14	21S	37E	674633	3594610	70			
CP 01221 POD1		LE		4	4	4	11	21S	37E	676254	3588506	75	60	15
CP 01222 POD1		LE		2	2	2	35	21S	37E	676079	3591029	58	48	10
CP 01222 POD2		LE		2	2	2	35	21S	37E	676079	3591029	65	48	17
CP 01222 POD3		LE		2	2	2	35	21S	37E	676052	3591029	60	48	12
CP 01222 POD4		LE		2	2	2	35	21S	37E	676105	3590999	60	44	16
CP 01245 POD1		LE		1	4	3	18	21S	37E	668677	3594410	220		
CP 01274 POD1		LE		4	3	1	26	21S	37E	674993	3591843	60		
CP 01274 POD2		LE		4	3	1	26	21S	37E	674993	3591843	60		
CP 01302 POD1		LE		3	3	3	28	21S	37E	671454	3591072	162	100	62
CP 01358 POD1		LE		2	1	4	34	21S	37E	674134	3589539	65	48	17
CP 01358 POD2		LE		4	4	2	34	21S	37E	674497	3589676	42	29	13
CP 01358 POD3		LE		4	4	1	34	21S	37E	674434	3589782	45	32	13
CP 01358 POD4		LE		4	2	3	34	21S	37E	674307	3589974	45	40	5

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(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-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
CP 01358 POD5		LE		4	2	1	34	21S	37E	674306	3590035	58	41	17
CP 01358 POD6		LE		4	2	3	34	21S	37E	674271	3589921	26		
CP 01540 POD1	CP	LE		1	1	1	35	21S	37E	674374	3590848	51	36	15
CP 01574 POD1	CP	LE		2	4	4	15	21S	37E	674563	3594599	68	57	11
CP 01574 POD2	CP	LE		1	3	3	14	21S	37E	674654	3594594	68	57	11
CP 01575 POD1	CP	LE		1	2	1	22	21S	37E	673543	3594200	40	35	5
CP 01575 POD2	CP	LE		2	2	1	22	21S	37E	673610	3594192	35	35	0

Average Depth to Water: 60 feet

Minimum Depth: 29 feet

Maximum Depth: 106 feet

Record Count: 91

PLSS Search:

Township: 21S

Range: 37E

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.

Appendix C

SAMPLE LOG

Client:	Globe Energy Services
Site Name	Eunice Yard
Boring/Well:	BH-1
GPS	32.43107, -103.14390
Project #:	212C-MD-00374
Total Depth	25'
Date Installed:	1/20/2016

[illegible]

SAMPLE LOG

Client:	Globe Energy Services
Site Name	Eunice Yard
Boring/Well:	BH-2
GPS	32.43139, -103.4388
Project #:	212C-MD-00374
Total Depth	25'
Date Installed:	1/20/2016

[illegible]

SAMPLE LOG

Client:	Globe Energy Services
Site Name	Eunice Yard
Boring/Well:	BH-3
GPS	32.43147, -103.14384
Project #:	212C-MD-00374
Total Depth	10'
Date Installed:	1/20/2016

[illegible]

SAMPLE LOG

Client:	Globe Energy Services
Site Name	Eunice Yard
Boring/Well:	BH-4
GPS	32.43159, -103.14395
Project #:	212C-MD-00374
Total Depth	25'
Date Installed:	1/20/2016

[illegible]

SAMPLE LOG

Client:	Globe Energy Services
Site Name	Eunice Yard
Boring/Well:	BH-5
GPS	32.43164, -103.14413
Project #:	212C-MD-00374
Total Depth	25'
Date Installed:	1/20/2016

[illegible]

SAMPLE LOG

Client:	Globe Energy Services
Site Name	Eunice Yard
Boring/Well:	BH-6
GPS	32.43153, -103.14435
Project #:	212C-MD-00374
Total Depth	25'
Date Installed:	1/21/2016

[illegible]

SAMPLE LOG

Client:	Globe Energy Services
Site Name	Eunice Yard
Boring/Well:	BH-7
GPS	32.43149, -103.14503
Project #:	212C-MD-00374
Total Depth	5'
Date Installed:	1/21/2016

[illegible]

SAMPLE LOG

Client:	Globe Energy Services
Site Name	Eunice Yard
Boring/Well:	BH-8
GPS	32.43191, -103.14549
Project #:	212C-MD-00374
Total Depth	10'
Date Installed:	1/21/2016

[illegible]

SAMPLE LOG

Client:	Globe Energy Services
Site Name	Eunice Yard
Boring/Well:	BH-9
GPS	32.43212, -103.14559
Project #:	212C-MD-00374
Total Depth	10'
Date Installed:	1/21/2016

[illegible]

SAMPLE LOG

Client:	Globe Energy Services
Site Name	Eunice Yard
Boring/Well:	BH-10
GPS	32.43207, -103.14552
Project #:	212C-MD-00374
Total Depth	25'
Date Installed:	1/21/2016

[illegible]

SAMPLE LOG

Client:	Globe Energy Services
Site Name	Eunice Yard
Boring/Well:	BH-11
GPS	32.43199, -103.14542
Project #:	212C-MD-00374
Total Depth	20'
Date Installed:	1/21/2016

[illegible]

SAMPLE LOG

Client:	Globe Energy Services
Site Name	Eunice Yard
Boring/Well:	BH-12
GPS	32.43224, -103.14540
Project #:	212C-MD-00374
Total Depth	10'
Date Installed:	1/21/2016

[illegible]

Appendix D