

SITE INFORMATION

2RA-881 & 891

Report Type: Closure Report

General Site Information

Site:	Berry A #33				
Company:	Alamo Permian Resources LLC				
Section, Township and Range	Unit K	Sec. 24	T-17-S	R-27-E	
Lease Number:	API 30-015-25154				
County:	Eddy County				
GPS:	32.81698° N			104.23447° W	
Surface Owner:	Federal				
Mineral Owner:					
Directions:	From NM-82 and Hwy 360, travel west 4.5 miles to Crane Road. Turn right 0.1 miles to Southern Union, Turn right 0.1 to location on right .				

Release Data:	Spill #1	Spill #2
Date Released:	7/14/11	8/30/11
Type Release:	Oil and Water	Water
Source of Contamination:	Open Top ran over	Open Top ran over
Fluid Released:	18 bbls (3 bbls oil, 15 bbls water)	25 bbls
Fluids Recovered:	0 bbls	0 bbls

Official Communication

Name:	Hollie Lamb	Kim Dorey
Company:	Alamo Permian Resources, LLC	Tetra Tech
Address:	415 West Wall St., Suite 500	1910 N. Big Spring
P.O. Box		
City:	Midland, Texas	Midland, Texas
Phone number:	(432) 897-0673	(432) 682-4559
Cell:	(432) 664-7659	
Email:	hlamb@helmsoil.com	kim.dorey@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:	0	

Acceptable Soil RRAL (mg/kg)		
Benzene	Total BTEX	TPH
10	50	5,000



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RECEIVED

SEP 06 2012

NMOCD ARTESIA

May 16, 2012

Mr. Mike Bratcher
Environmental Engineer Specialist
Oil Conservation Division, District 2
1301 West Grand Avenue
Artesia, New Mexico 88210

Re: Closure Report for the Alamo Permian Resources LLC., Berry A #33, Tank Battery, Unit K, Section 24, Township 17 South, Range 27 East, Eddy County, New Mexico.

Mr. Bratcher:

Tetra Tech, Inc. (Tetra Tech) was contacted by Alamo Permian Resources LLC., (Alamo) to assess a spill from the Berry A #33 Tank Battery, Unit K, Section 24, Township 17 South, Range 27 East, Eddy County, New Mexico (Site). The spill site coordinates are N 32.81698°, W 104.23447°. The site location is shown on Figures 1 and 2. Alamo reported two separate reportable spills at the Berry A #33 location.

Background

Spill #1

According to the State of New Mexico C-141 Initial Report, the first spill was discovered on July 14, 2011, and released approximately three (3) barrels of oil and fifteen (15) barrel of produced water due to an electrical malfunction and allowing the open top tank to overflow.

Spill #2

According to the State of New Mexico C-141 Initial Report, the second spill was discovered on August 30, 2011, and released approximately twenty-five (25) barrels of water due to an electrical malfunction and allowing the open top tank to overflow. To alleviate the problem, Alamo moved the water tank near the oil tanks and lined and diked the water tank.

Tetra Tech

1910 North Big Spring, Midland, TX 79705

Tel 432.682.4559 Fax 432.682.3946 www.tetrattech.com



Groundwater

No water wells were listed within Section 24. According to the New Mexico office of State Engineer one well was listed in Section 23 with a reported total depth of 220' and groundwater depth of 40' bgs which may be artesian.

According to the NMOCD groundwater map, the average depth to groundwater in this area is approximately 150' below surface. One well in Section 16 of Township 17 South, Range 27 East has a recorded depth to water of 172' below surface. Another well was listed in Section 19 of Township 17 South, Range 28 East, has a recorded depth to water of 191' below surface. The groundwater well report data and New Mexico Office of the State Engineer's reports are shown in Appendix B.

Regulatory

A risk-based evaluation was 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. The proposed RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene, and xylene). Based upon the depth to groundwater, the proposed RRAL for TPH is 5,000 mg/kg.

Soil Assessment and Analytical Results

On January 23, 2012, Tetra Tech personnel supervised the installation of boreholes utilizing an air rotary drilling rig. A total of six (6) boreholes (BH-1 through BH-6) were installed and soil samples collected for laboratory analysis. Select 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 C. The results of the sampling are summarized in Table 1. The spill footprint and borehole locations are shown on Figure 3.

Referring to Table 1, all submitted samples were below the RRAL for TPH and BTEX. Elevated chloride concentrations were detected in BH-1, BH-2, and BH-4. Borehole (BH-1) located inside the berm area had chloride



concentrations ranging from 1,010 mg/kg at 6-7' bgs to 14,200 mg/kg at 14-15' bgs. Chloride concentrations had a significant decrease to 1,480 mg/kg at 29-30' bgs and declined to <200 mg/kg at 39-40' bgs.

Boreholes (BH-2 and BH-4) were installed outside of the berm area on the east and west side, respectively. BH-2, west of berm area had chloride concentrations ranging from 2,800 mg/kg at 9-10' bgs to 15,100 mg/kg at 0-1' bgs. BH-2 was vertically defined with a chloride concentration of 291 mg/kg at 24-25' bgs. BH-4, east of the berm had chloride concentrations ranging from 771 mg/kg at 6-7' bgs to 12,200 mg/kg at 14-15' bgs. BH-4 was vertically defined with a chloride concentration of 256 mg/kg at 39-40' bgs.

At BH-3, a chloride concentration spike was detected at 6-7' bgs of 3,050 mg/kg. Samples above at 4-5' (482 mg/kg) and below at 9-10' (386 mg/kg) did not show a significant impact. The detected chloride spike does not appear to be an environmental concern.

Spill Remediation Activities

March 2012, Tetra Tech personnel supervised the excavation as outlined in the previously submitted and approved work plan. The excavation depths proposed in the work plan were not achieved due to the dense formation encountered at approximately 6.0' below surface. Tetra Tech contacted the NMOCD and BLM to discuss the excavation difficulties at the site. Both agencies approved the excavation depth of 6.0' and capping the remaining impact with a 40 mil liner. Once completed, the liner was placed in the excavation bottom at 4.0' below surface and backfilled with clean material to grade. Approximately 1,300 yards³ of material were removed and disposed of at Gandy Marley Inc. The excavated area and depth are shown on Figure 4.

BLM Site Restoration Activities

At the request of the BLM, additional areas at the facility were addressed as part of the site restoration and cleanup activities (historical spills) at the location. The areas of concern are shown on Figures 5. These areas include the reserve pit, well pad, areas north and south off the pad and the southwest corner off the pad.

As approved by the BLM, the areas were excavated 1.0' below surface and lined with a 20 mil liner and 2.0' to 3.0' of topsoil placed top of the liner, with the exception of the pad area and area southwest corner area off the pad. Due to old spills on the pad, the area around the well was scraped and a 20 mil liner was installed on the pad. Once completed, 1.0' of



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caliche material was placed on top of the liner to complete the reclamation. The southwest corner area, near the DCP line, was worked with a backhoe to blend some hydrocarbon stained soil in the area. The excavated material from the site was transported to Gandy Marley Inc. for disposal.

On March 28, 2012, the BLM inspected the site and approved the restoration and cleanup activities at the site. The reserve pit, areas north and south of the pad, and southwest area of the pad were seeded with an approved BLM mix.

Conclusions

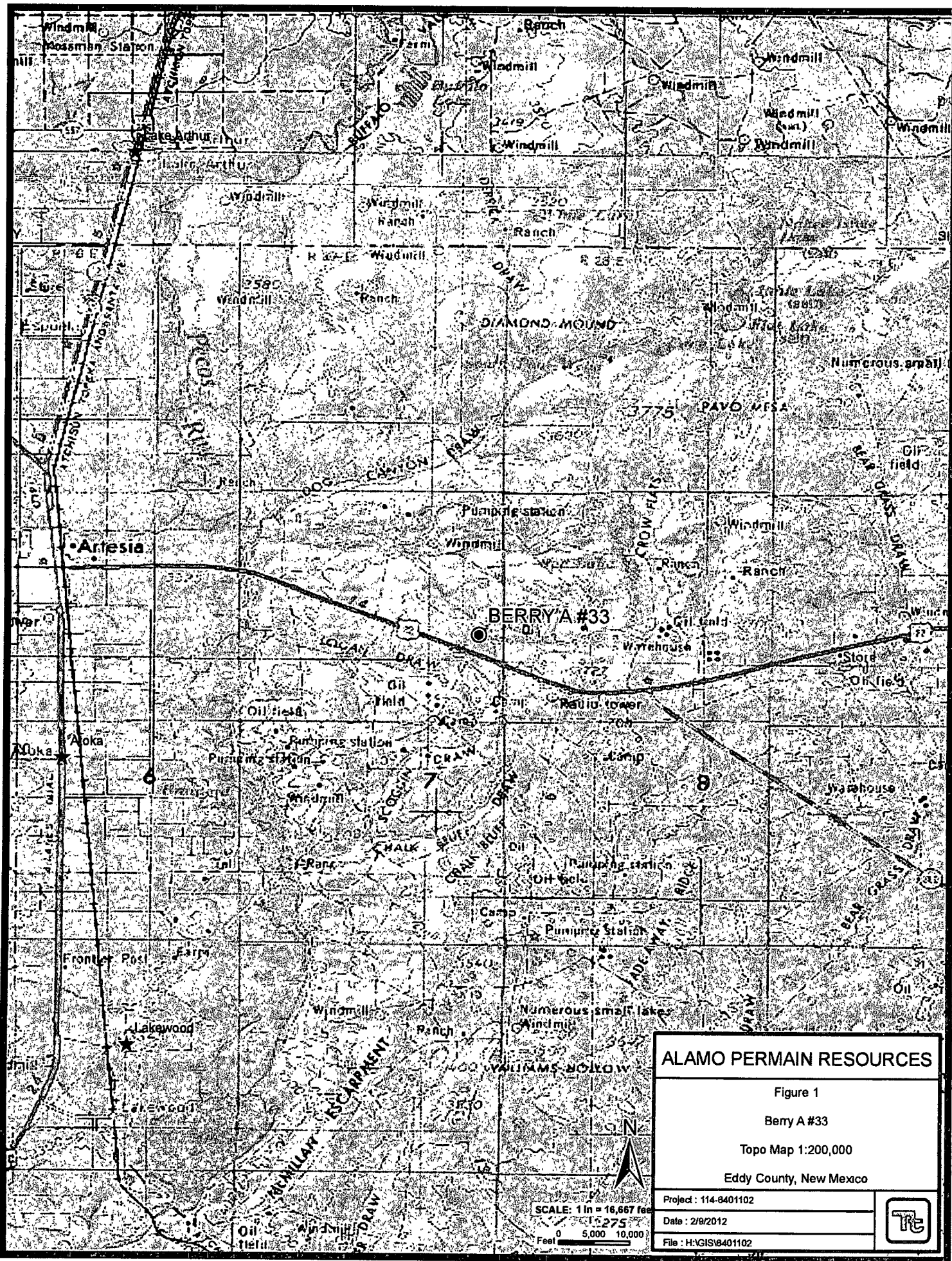
Based on the remediation activities performed on the reportable releases at this location, Alamo Permian Resources, LLC request closure for spill. The C-141 (Final) is included in Appendix C. If you have any questions or comments concerning the assessment or the remediation activities performed at the site, please call me at (432) 682-4559.

Respectfully submitted,
TETRA TECH

Ike Tavarez, PG
Senior Project Manager

cc: Jennifer Van Curen – BLM
Hollie Lamb – HeLM Oil and Gas

Figures



ALAMO PERMAIN RESOURCES

Figure 1

Berry A #33

Topo Map 1:200,000

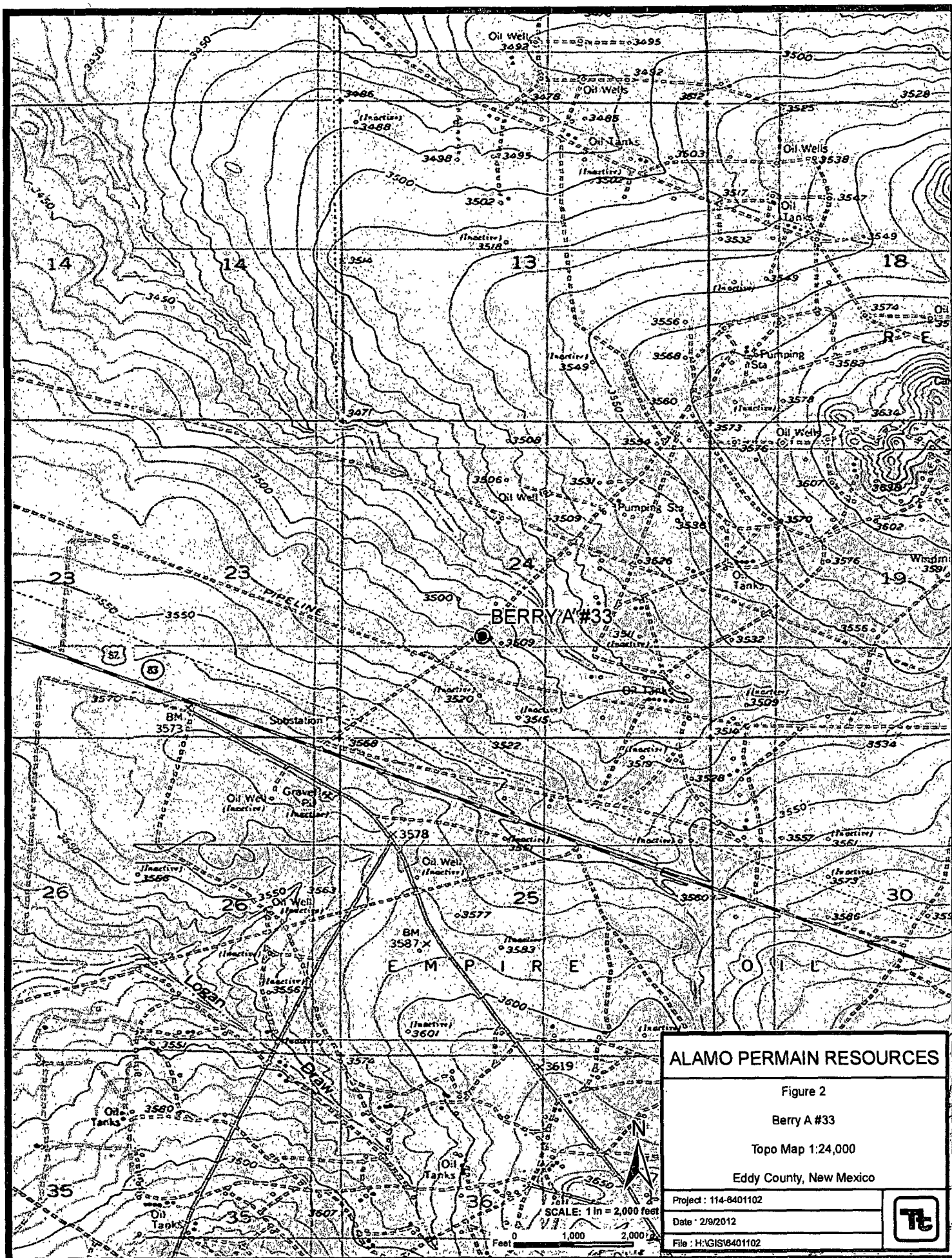
Eddy County, New Mexico

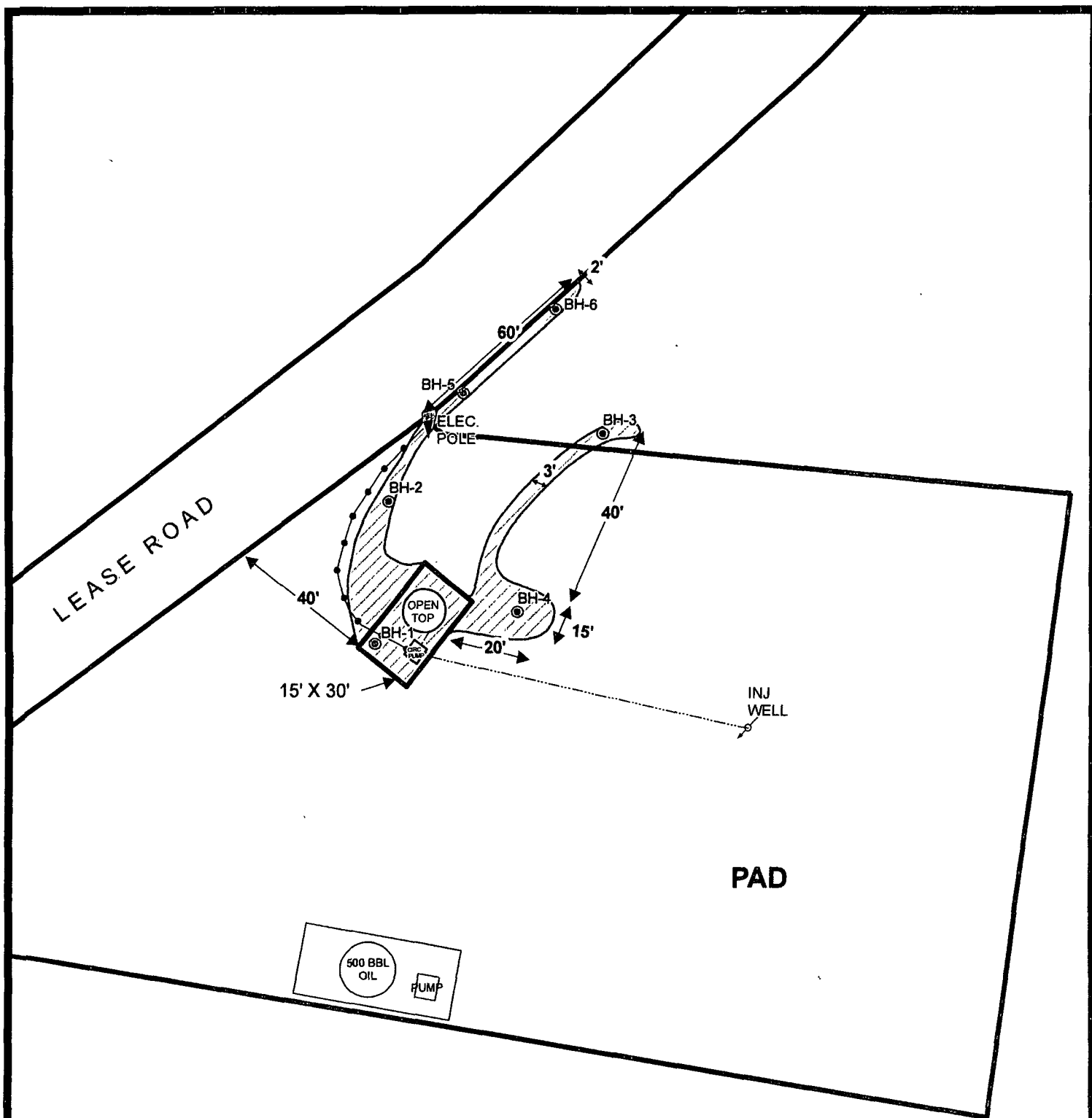
Project : 114-8401102

Date : 2/8/2012

File : H:\GIS\8401102







EXPLANATION

- BORE HOLE SAMPLE LOCATIONS
- ⚡ ELECTRICAL POLE
- ⚡ INJ. WELL
- LINE
- BURIED ELEC. LINE
- ▨ SPILL AREA



SCALE: 1 IN = 42 FEET

Feet 0 25 50

ALAMO PERMAIN RESOURCES

Figure 3

Berry A #33

Spill Assessment Map

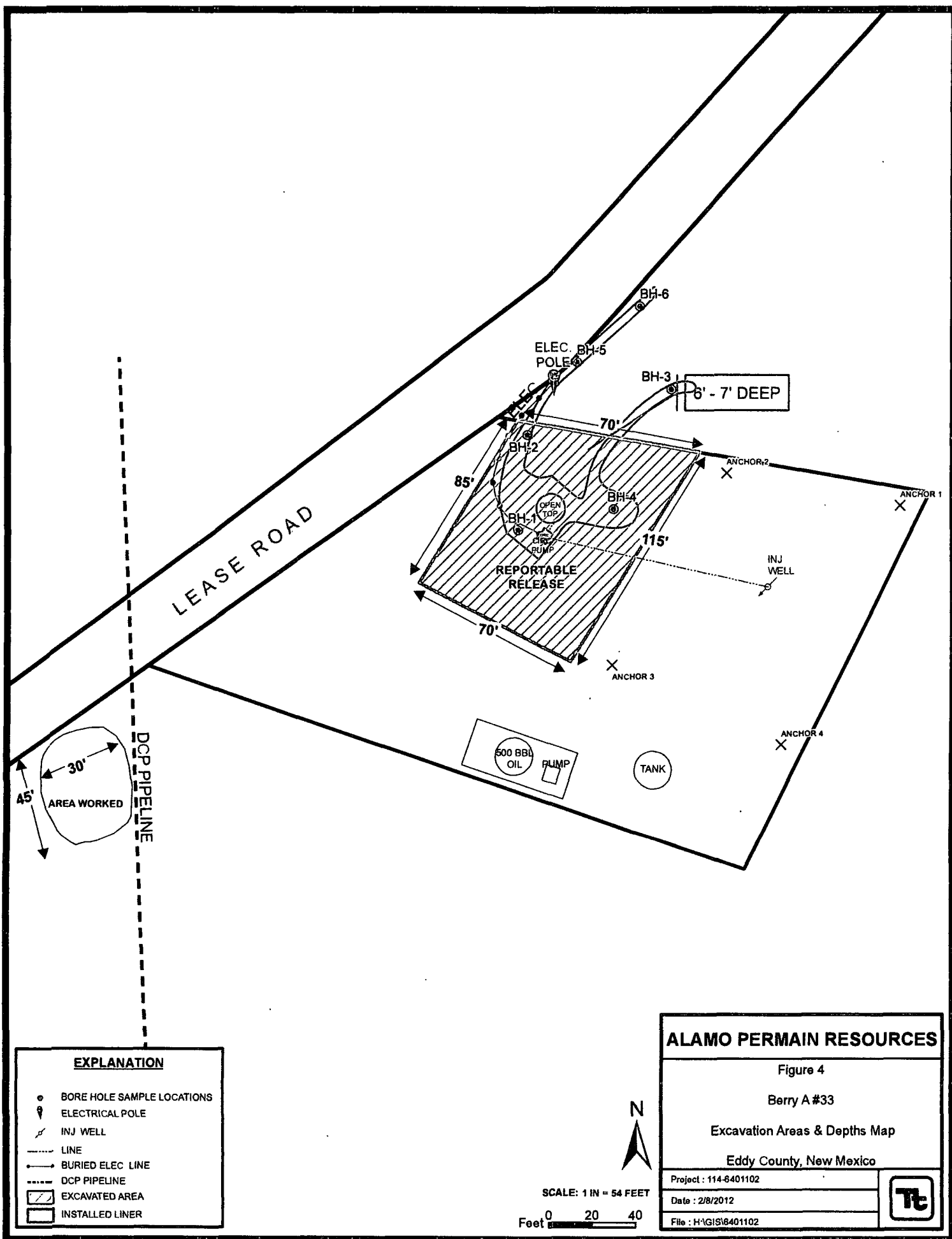
Eddy County, New Mexico

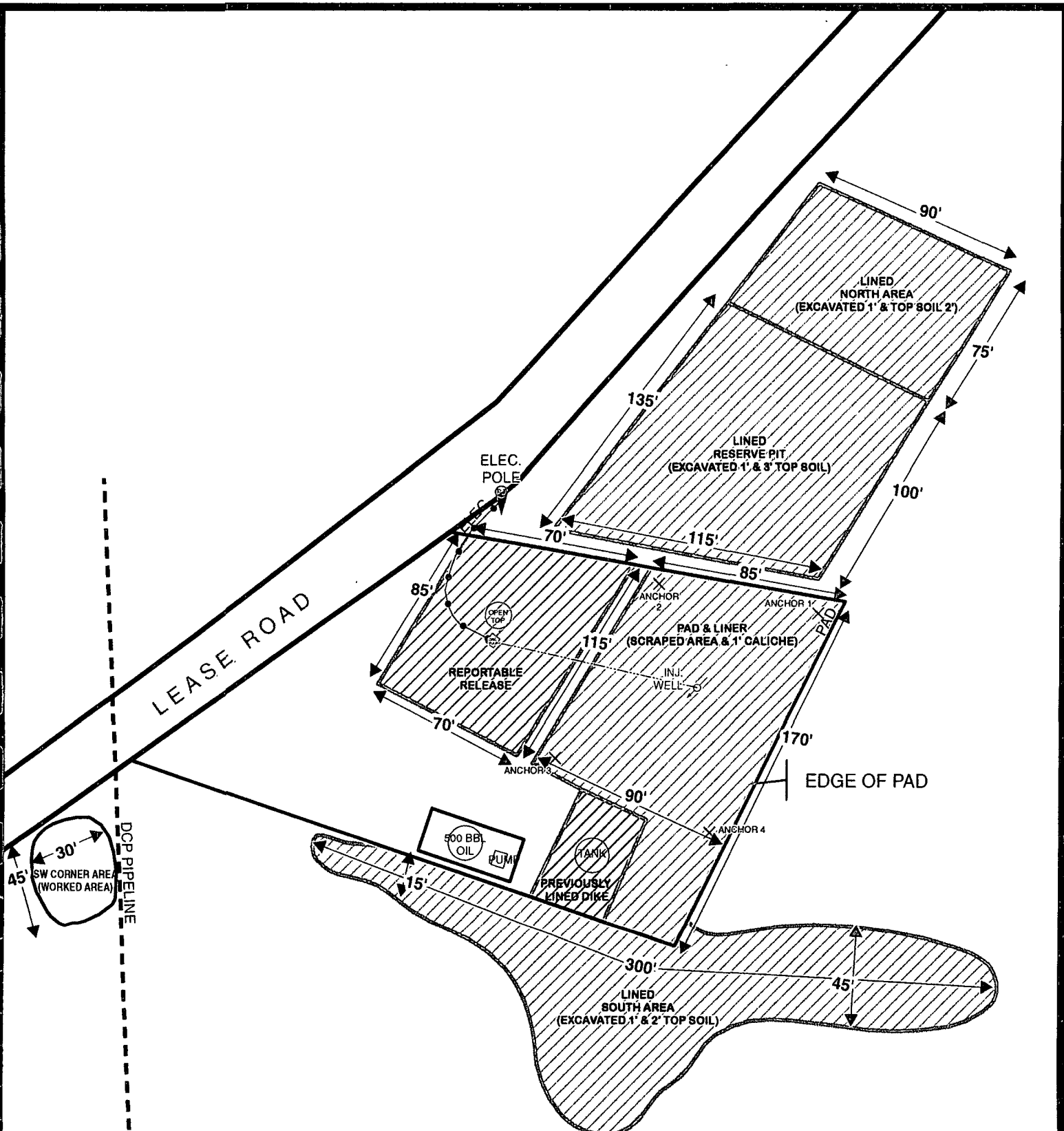
Project : 114-6401102

Date : 2/8/2012

File : H:\GIS\6401102







EXPLANATION

- ELECTRICAL POLE
- INJ. WELL
- LINE
- BURIED ELEC. LINE
- DCP PIPELINE
- REPORTABLE RELEASE
- PREVIOUSLY LINED
- EXCAVATED AREA
- INSTALLED LINER

N

SCALE: 1 IN = 66 FEET

Feet 0 25 50

ALAMO PERMAIN RESOURCES	
Figure 5	
Berry A #33	
Excavation Areas & Depths Map	
Eddy County, New Mexico	
Project : 114-6401102	
Date : 2/8/2012	
File : H:\GIS\6401102	

Tables

Table 1
Alamo
Berry A #33
Eddy County, New Mexico

[illegible]

Table 1
Alamo
Berry A #33
Eddy County, New Mexico

[illegible]

Table 1
Alamo
Berry A #33
Eddy 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						
BH-5 Along Road	1/23/2012	0-1	X		2.54	<50.0	2.54	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	560
	"	2-3	X		-	-	-	-	-	-	-	-	613
	"	4-5	X		-	-	-	-	-	-	-	-	2,180
		6-7	X		-	-	-	-	-	-	-	-	2,150
		9-10	X		-	-	-	-	-	-	-	-	375
		14-15	X		-	-	-	-	-	-	-	-	1,540
		19-20	X		-	-	-	-	-	-	-	-	217
BH-6 Along Road	1/23/2012	0-1	X		2.22	<50.0	2.22	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	450
	"	2-3	X		-	-	-	-	-	-	-	-	532
	"	4-5	X		-	-	-	-	-	-	-	-	<200

(--)

Not Analyzed

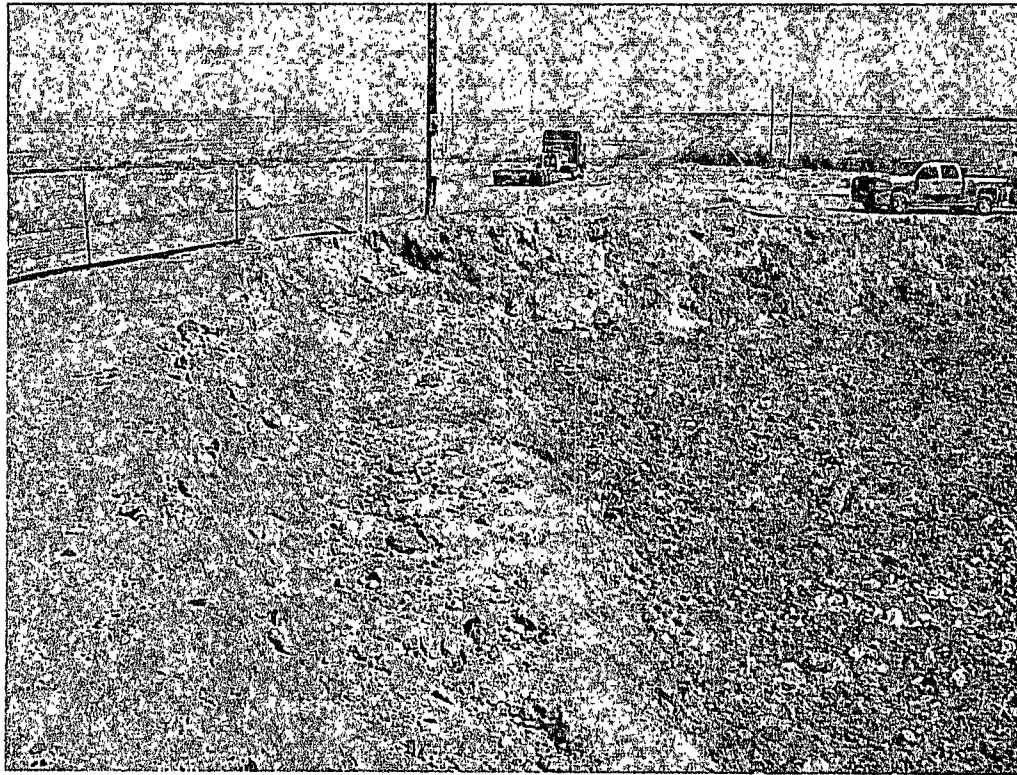


Excavation depths

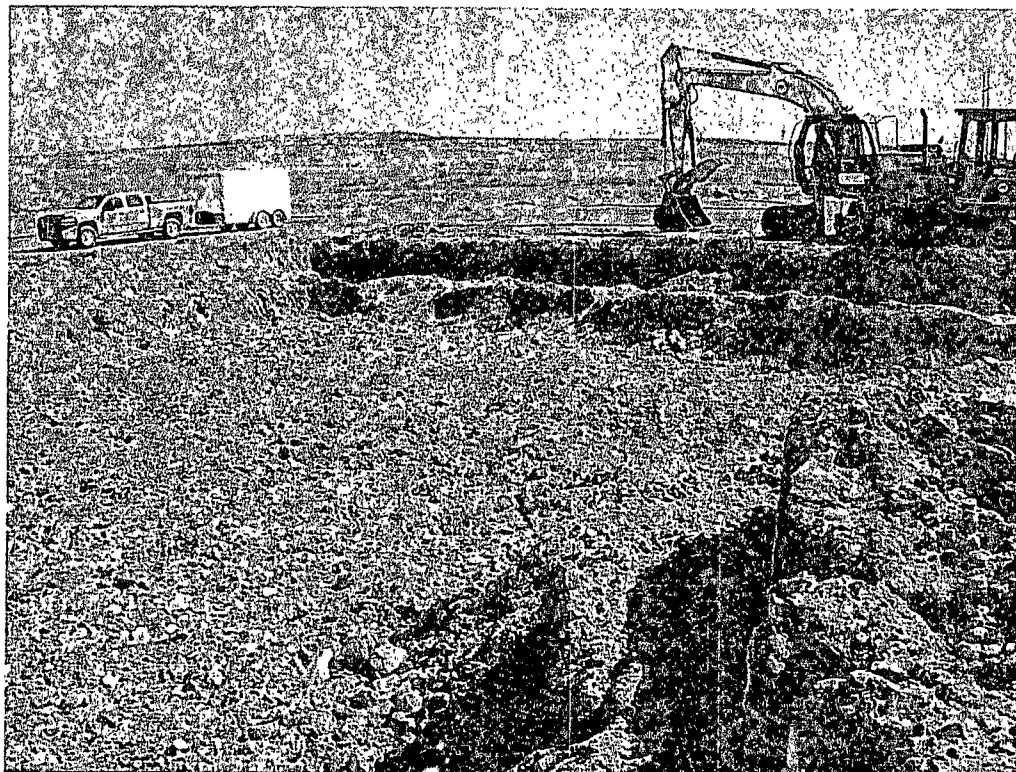


Installed liner

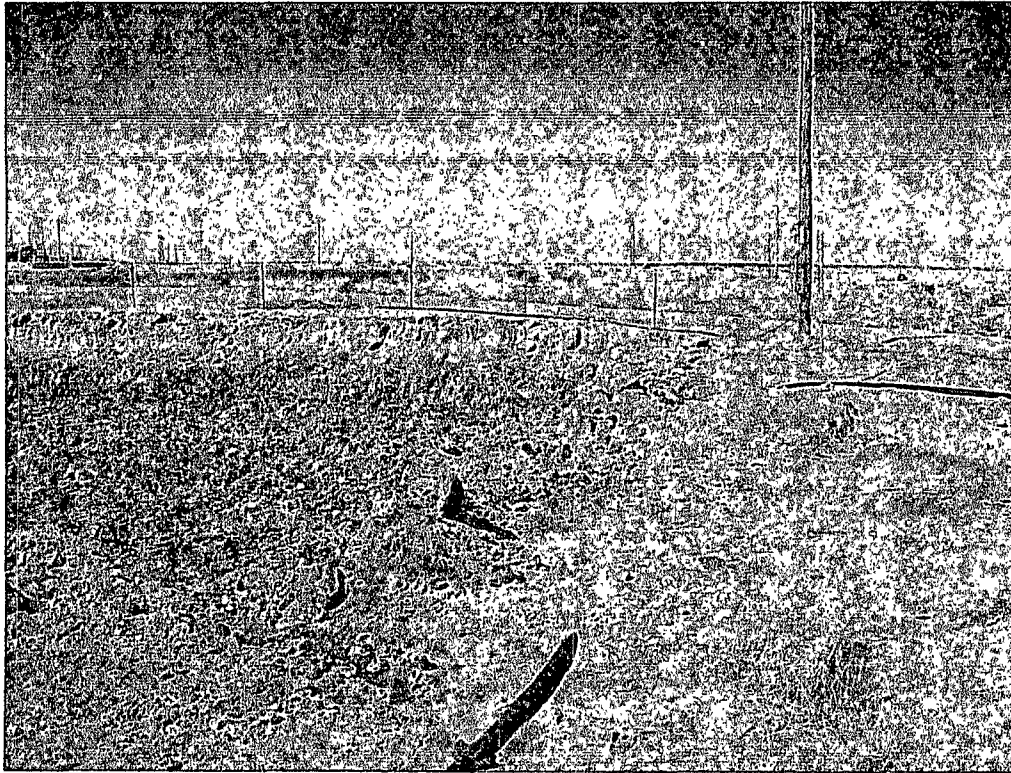
Photos



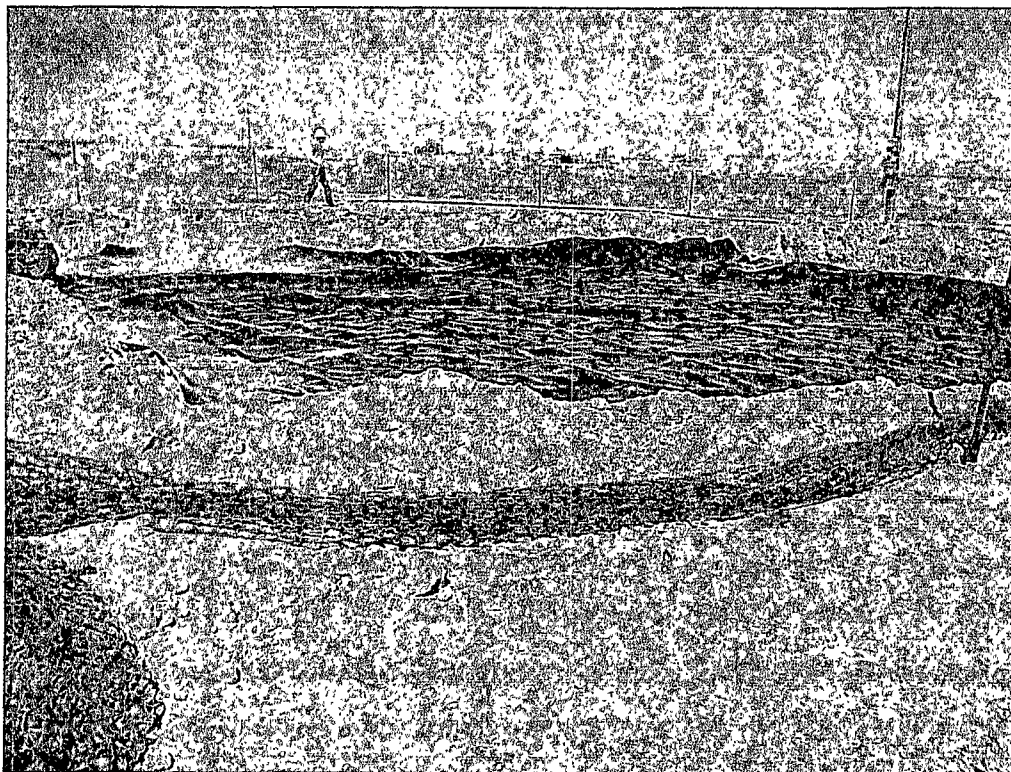
View – excavation of spill area at open top tank



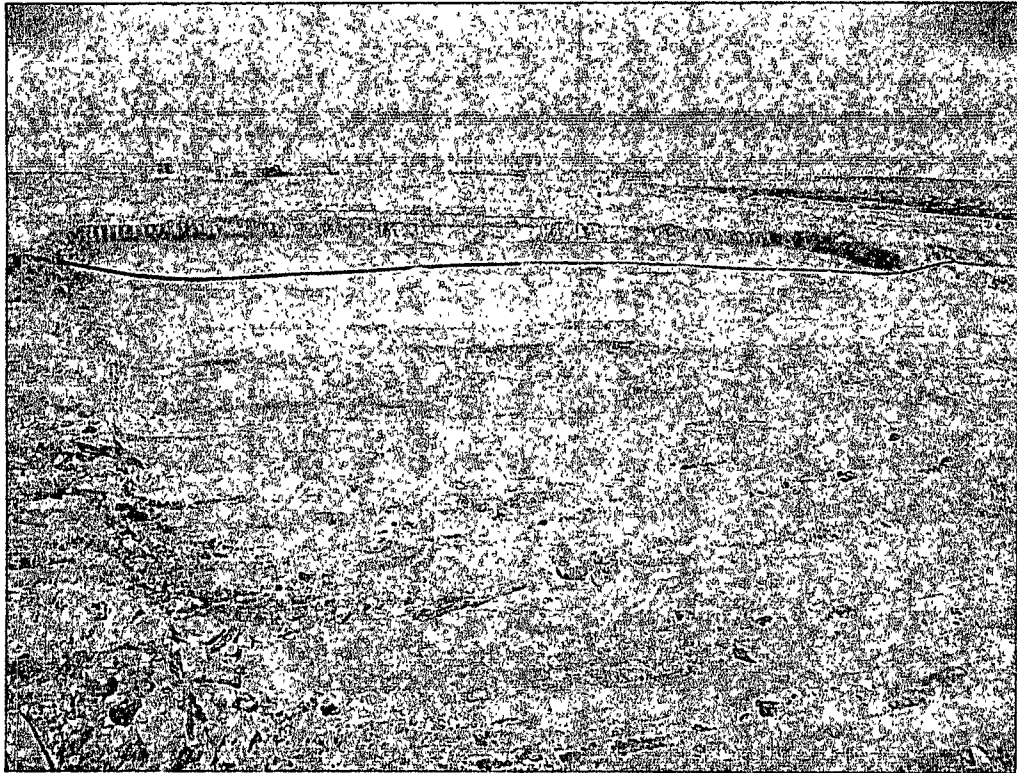
View north – final excavation at open top tank area



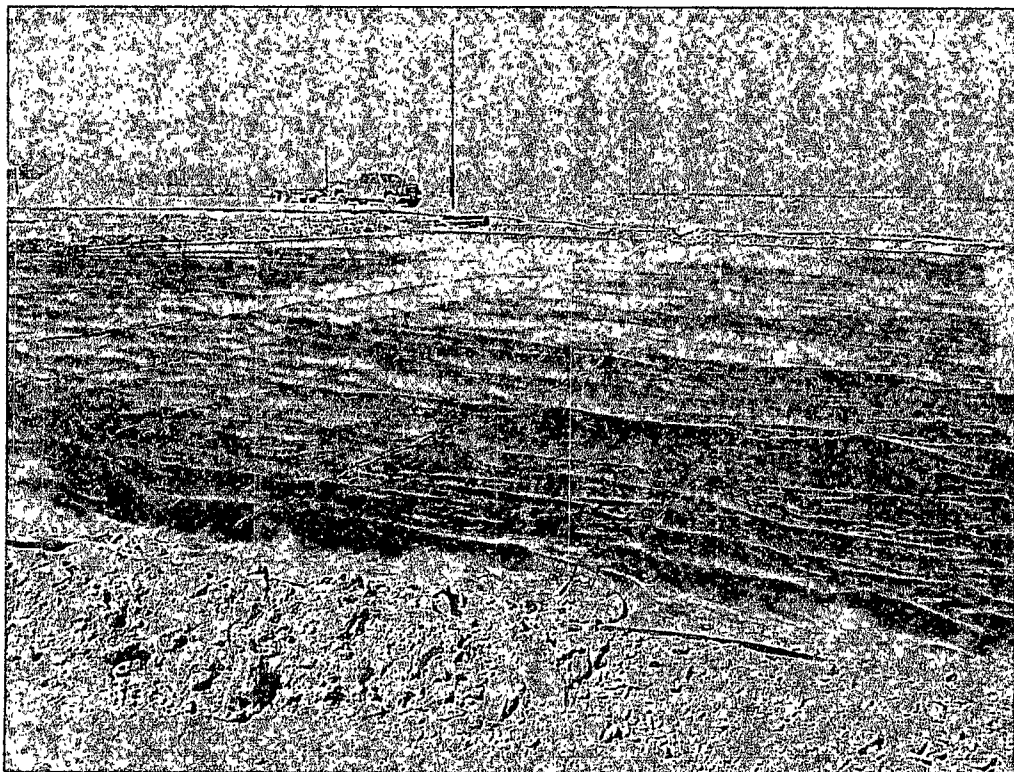
View west – final excavation at open top tank area



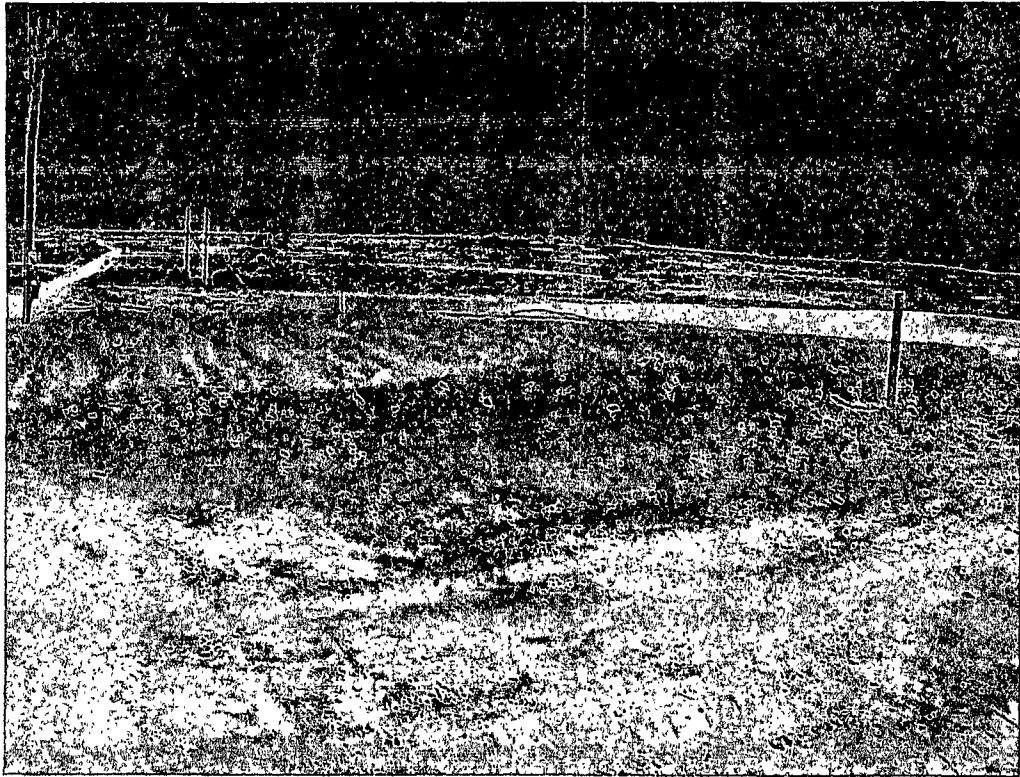
View west – open top tank area, liner and backfilling



Reserve pit area excavation



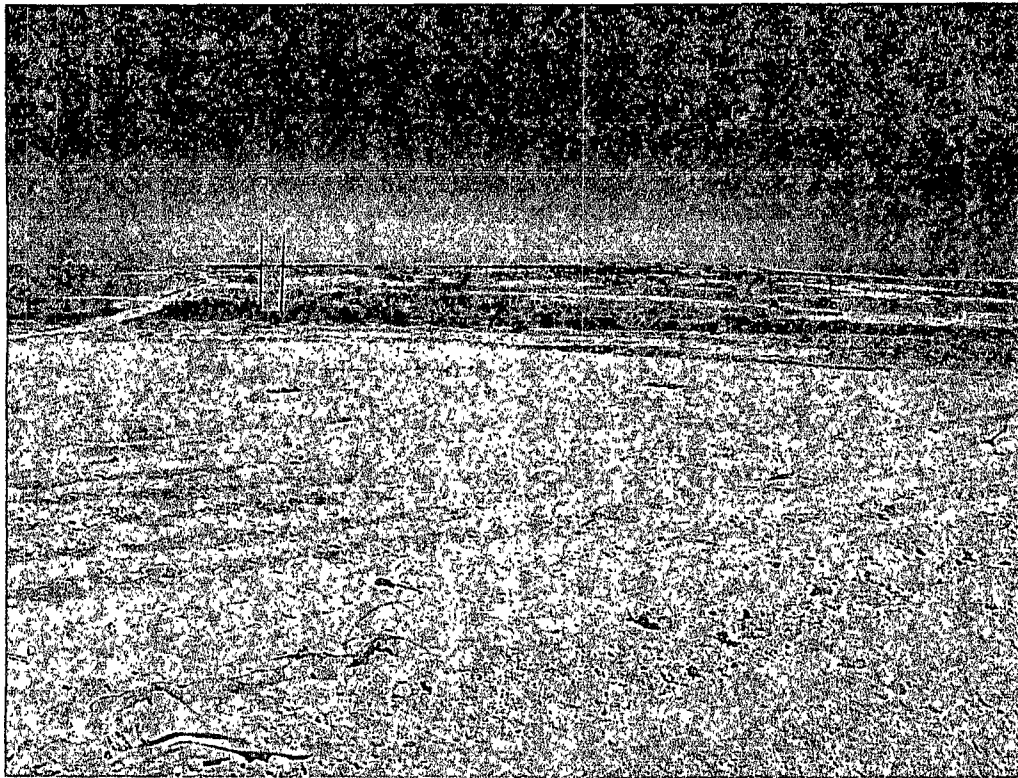
Reserve pit area liner installation



Reserve pit and north area - backfilled with 2.0' to 3.0' top soil



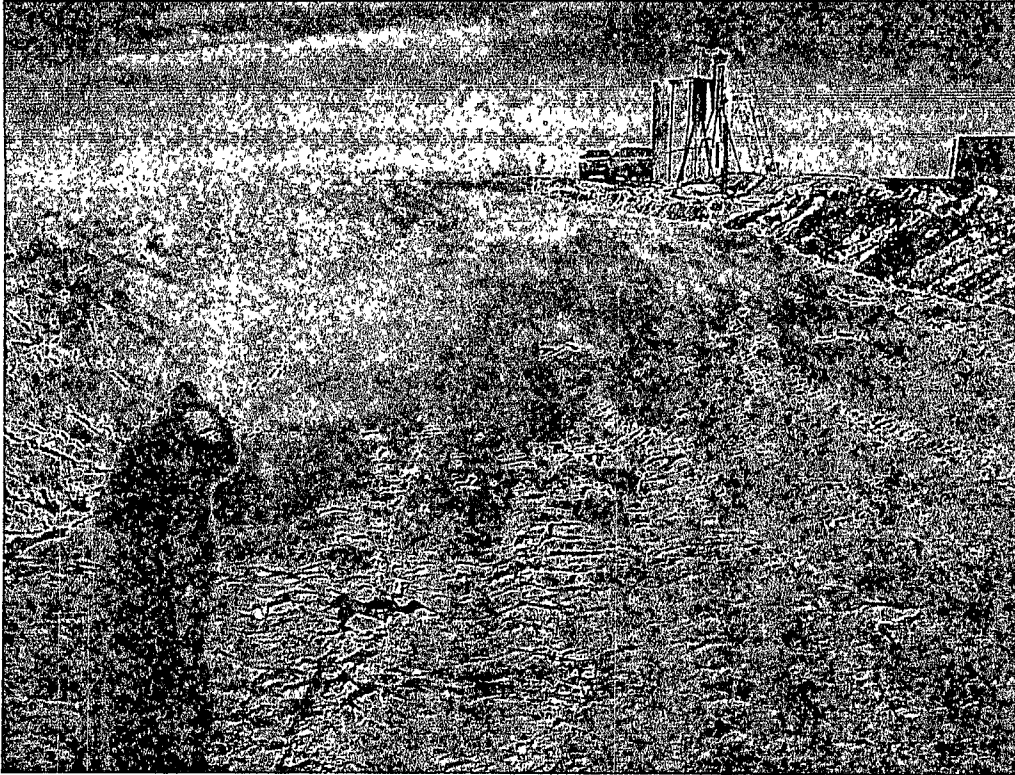
Reserve pit and north area - backfilled with 2.0 to 3.0' of clean topsoil



View of backfilled reserve pit and north area



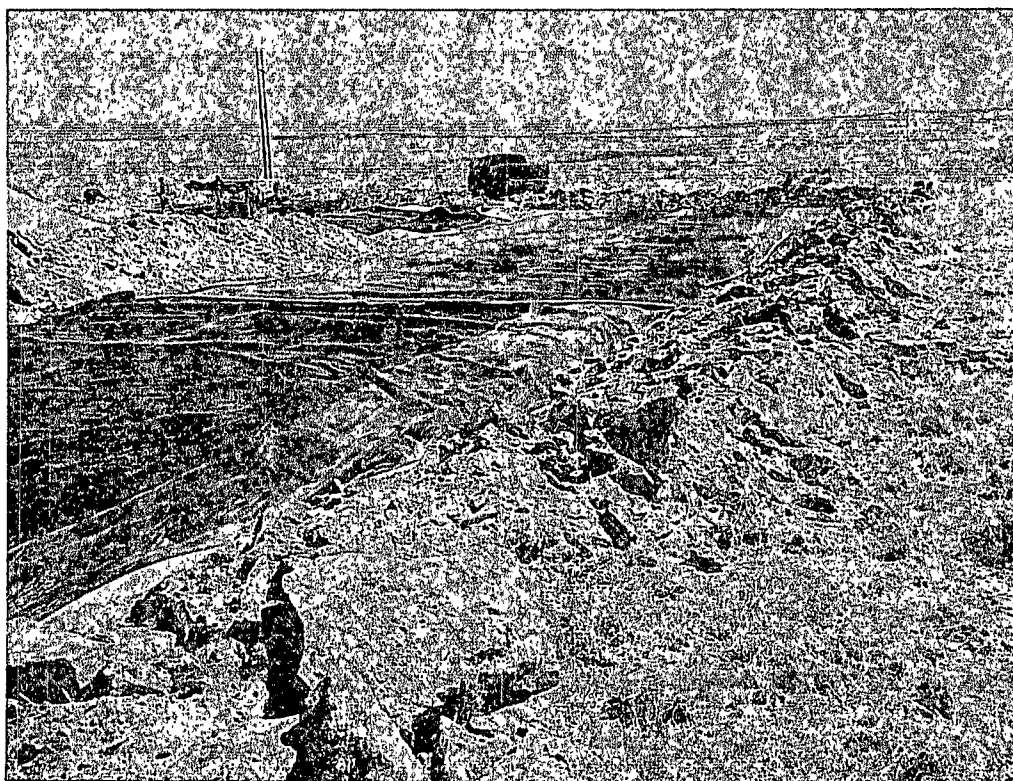
View of backfilled reserve pit and north area



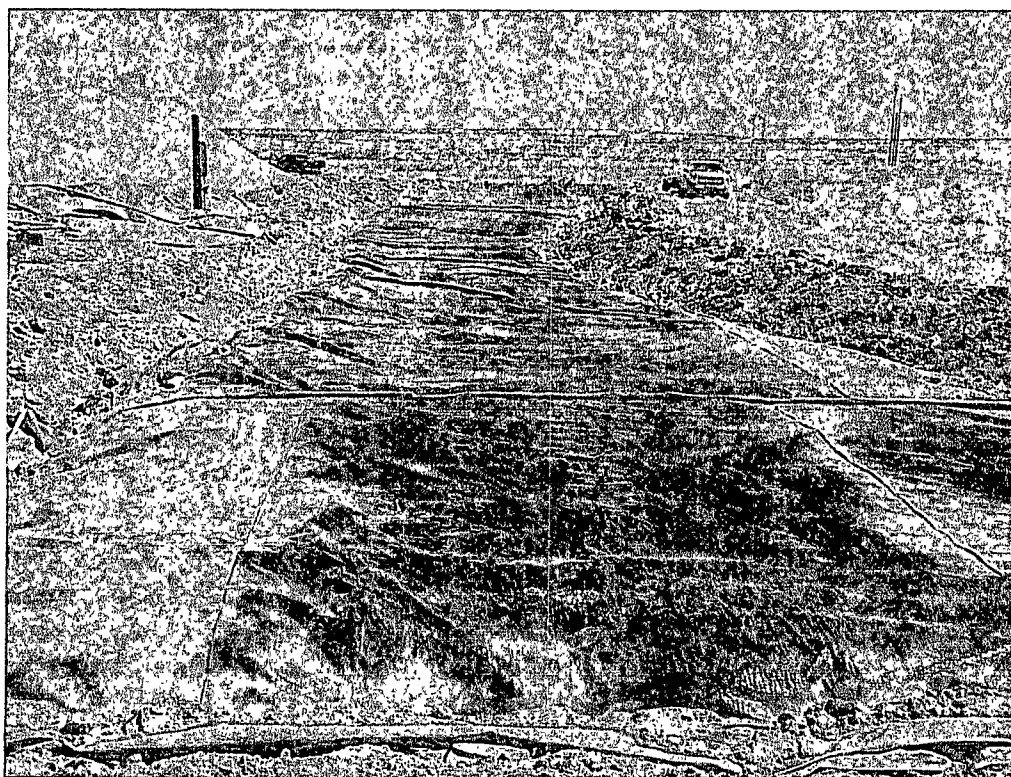
West view - excavation of area south of pad



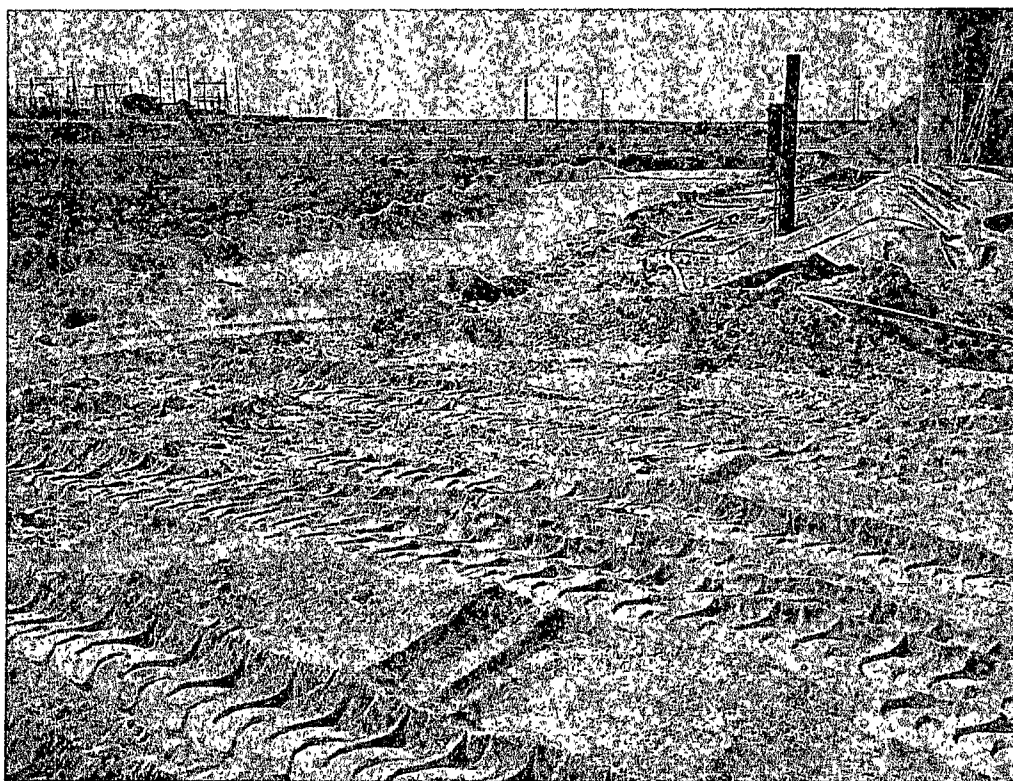
East view - excavation south of pad - 1.0' excavation



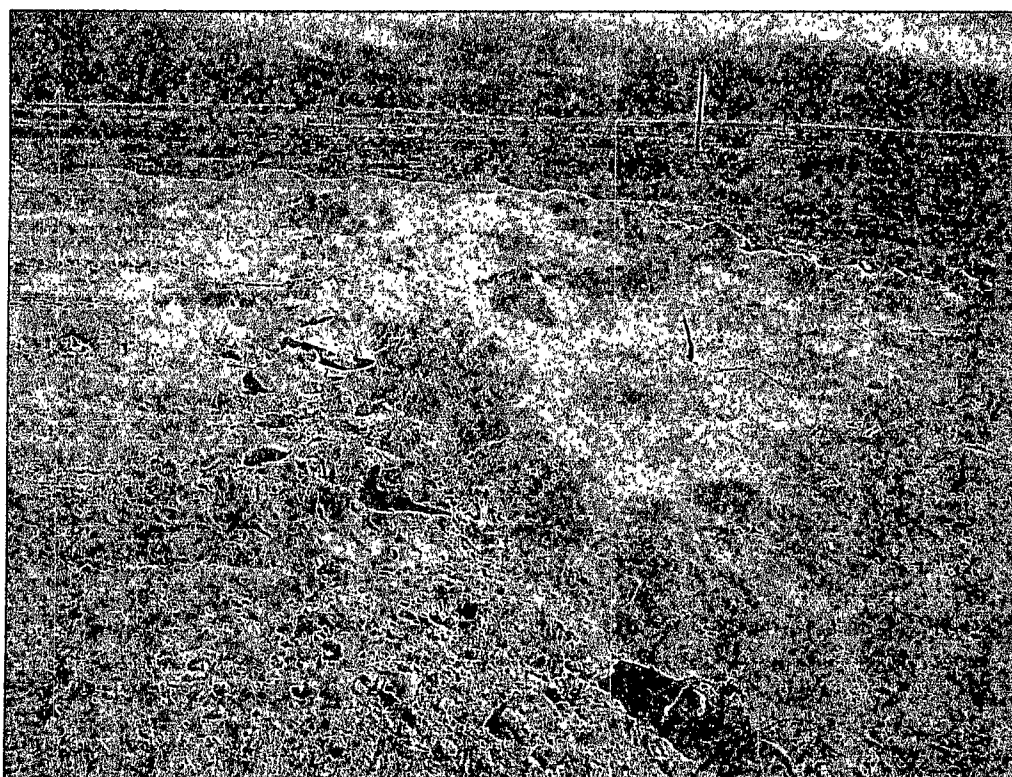
Area south of pad - liner installation



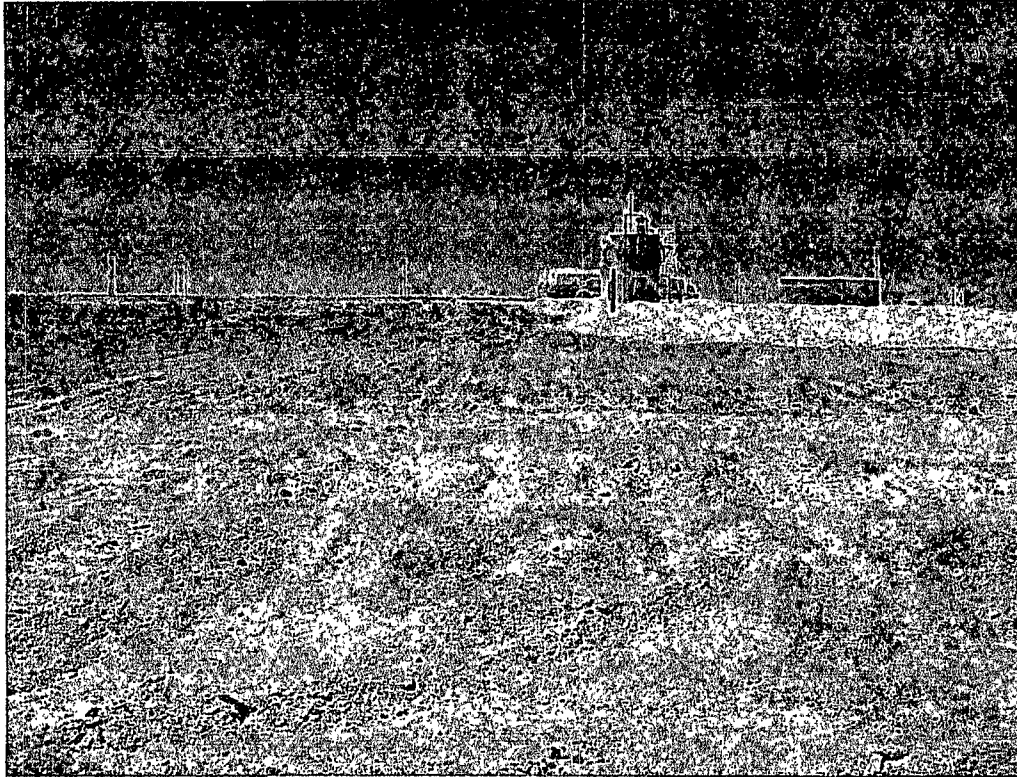
Area south of pad - liner and backfilling



Backfilling area south of pad



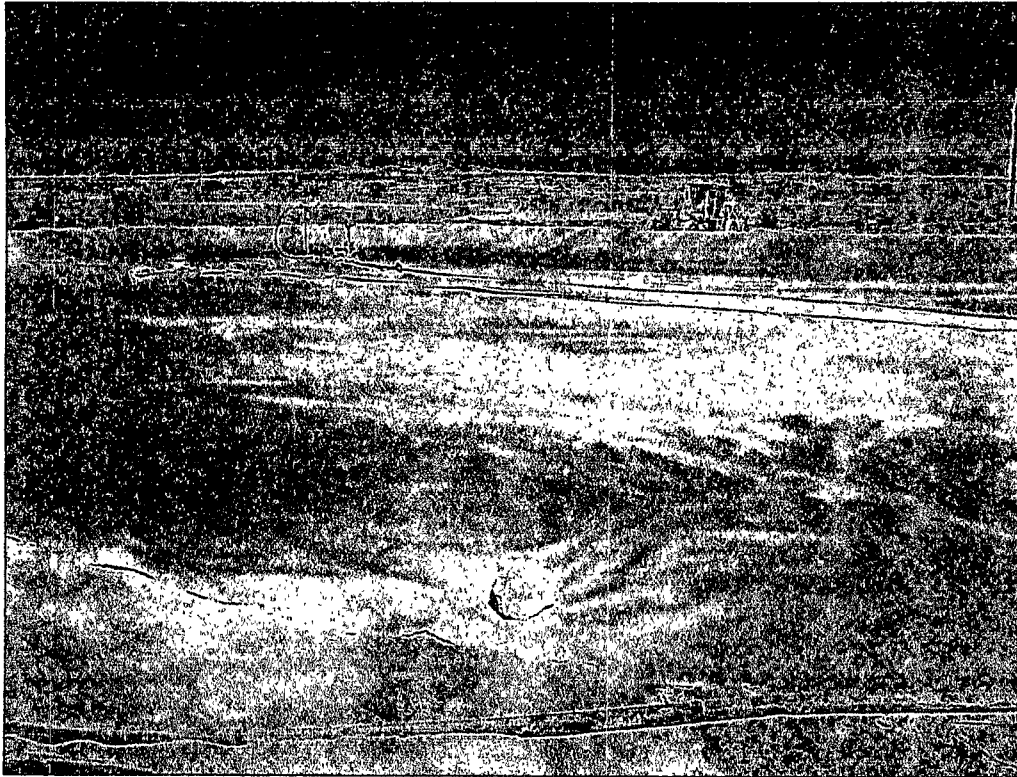
Backfilling area south of pad



View of backfilled area south of pad



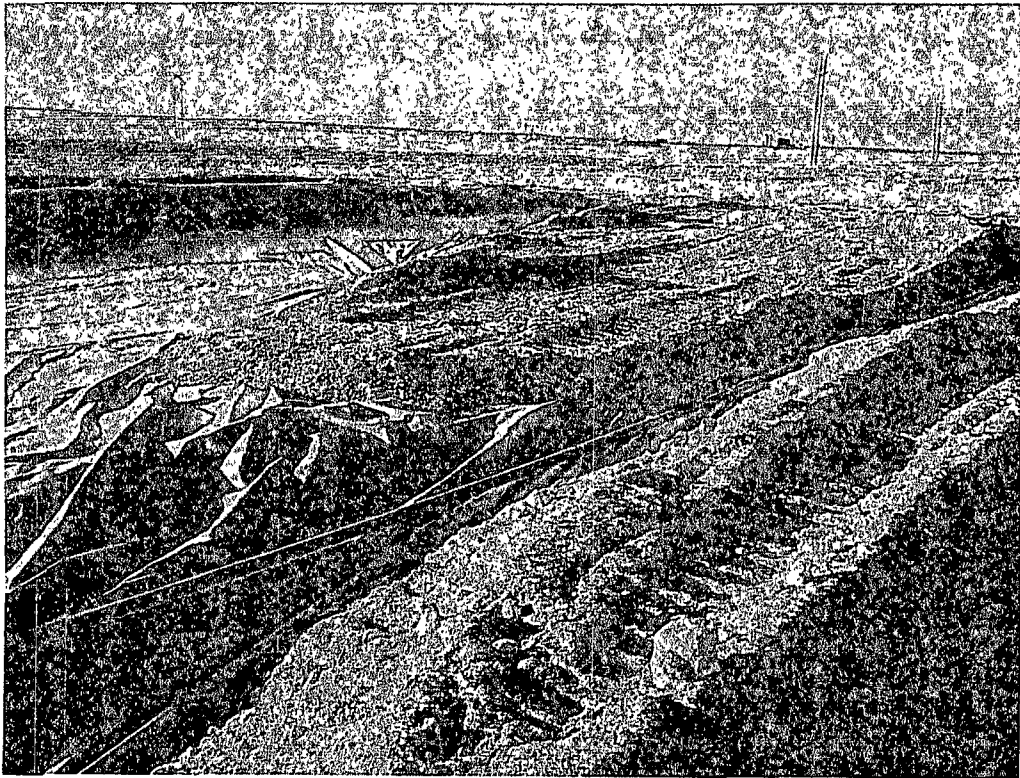
View of backfilled area south of pad



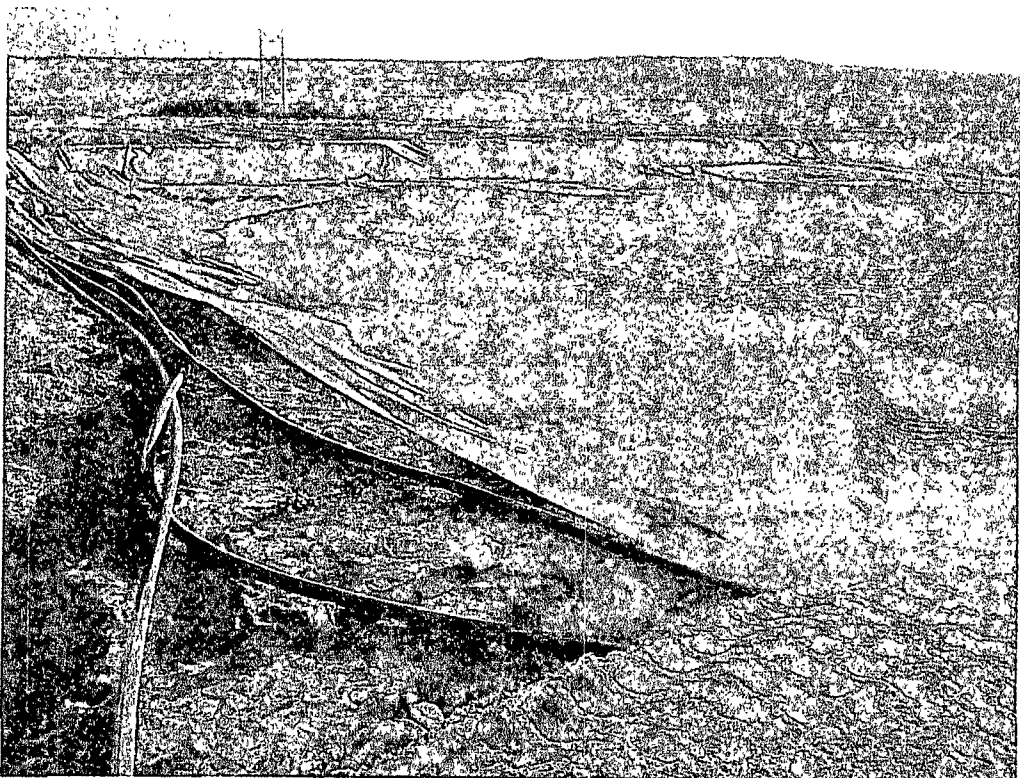
Pad area - liner installation



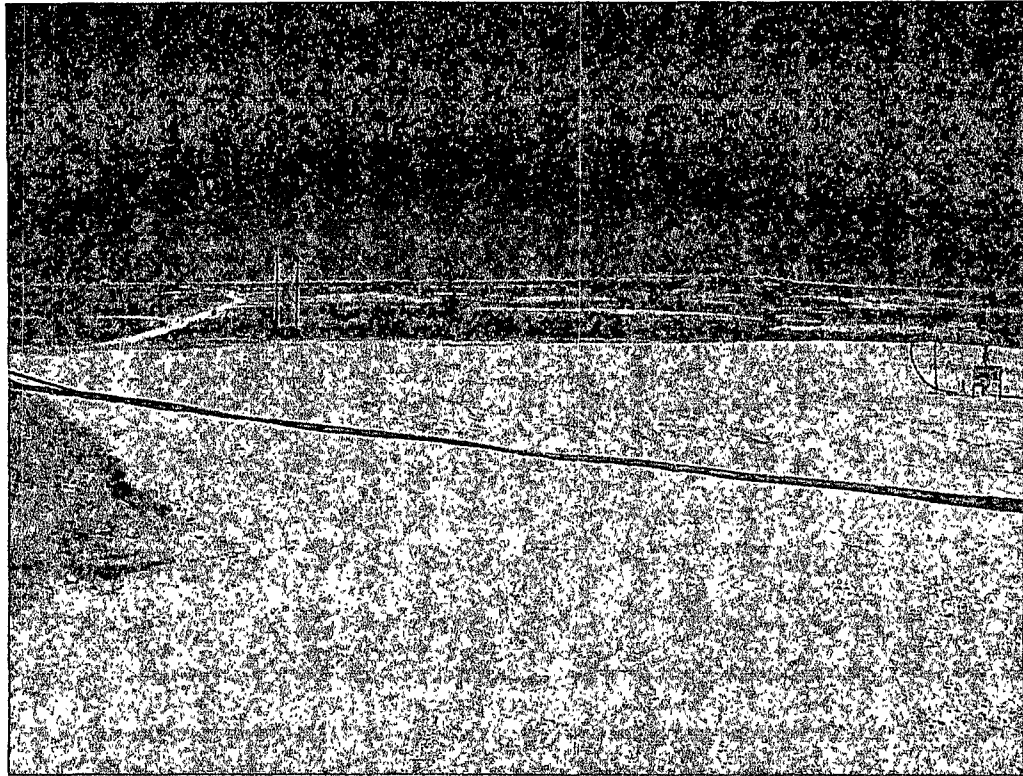
Pad area - liner installation



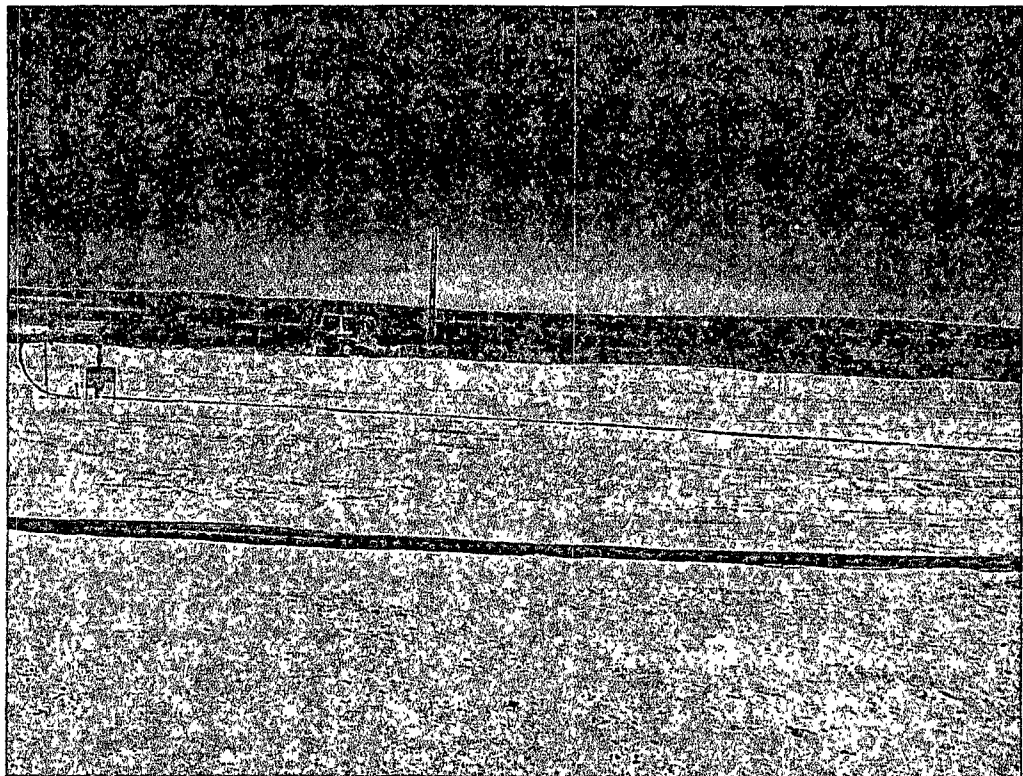
Pad area - 1.0' of caliche material top of liner



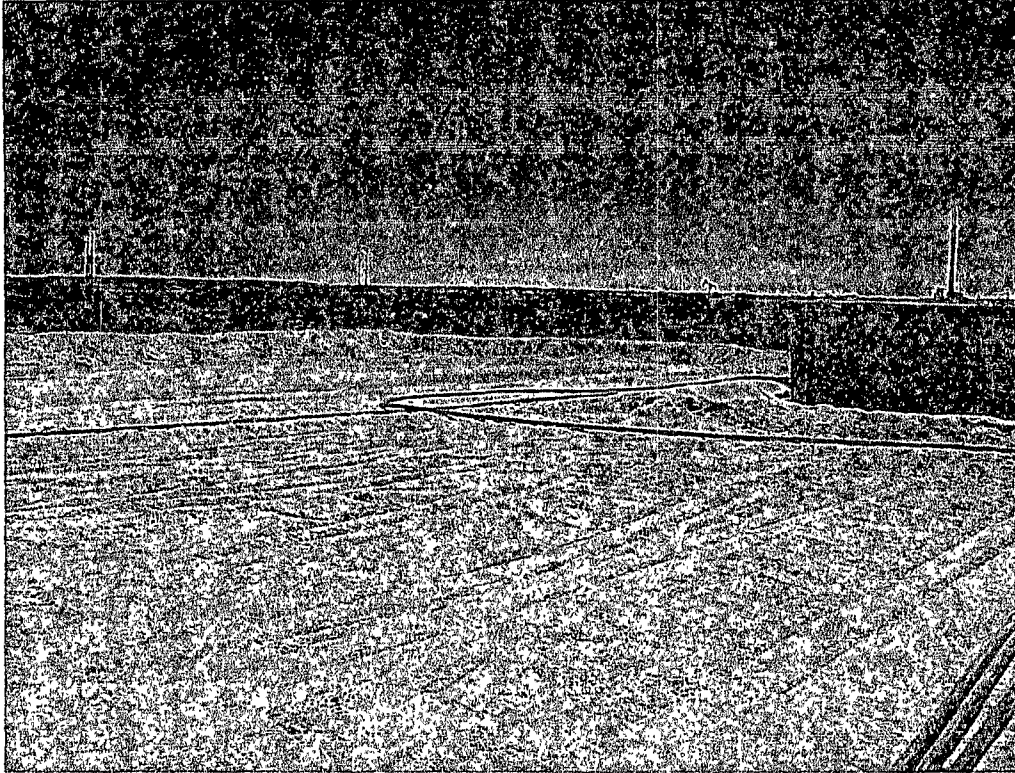
Pad area - 1.0' of caliche material top of liner



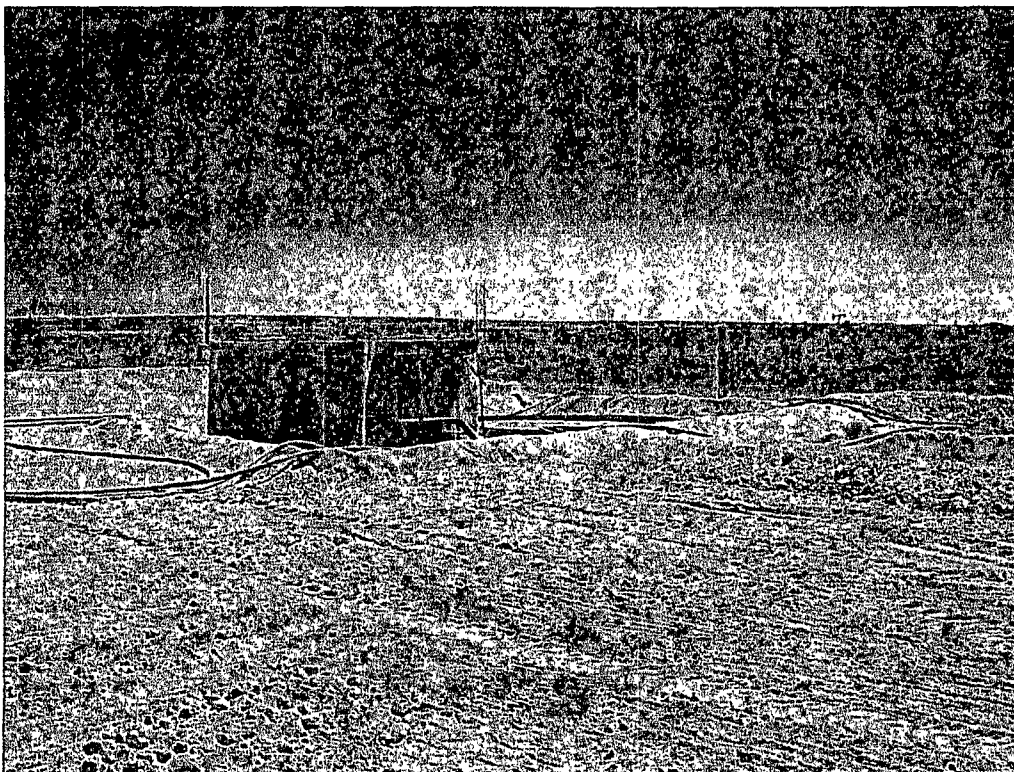
Pad area with 1.0' caliche material



Pad area with 1.0' of caliche material



Pad area with 1.0' caliche material



Pad area and new construction of lined area for open top tank

Appendix A

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

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

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company Alamo Permian Resources, LLC	Contact Steven Mastin
Address 415 W. Wall St. Suite 500	Telephone No. (432) 557-5847
Facility Name Berry A #33	Facility Type

Surface Owner Federal	Mineral Owner Federal	Lease No. API No. 30-015-25154
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LOCATION OF RELEASE

Unit Letter K	Section 24	Township 17-S	Range 27-E	Feet from the 1650	North/South Line South	Feet from the 2040	East/West Line West	County Eddy
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Latitude N 32.81684° Longitude W 104.23415°

NATURE OF RELEASE

Type of Release: Oil and Water	Volume of Release 3 bbls oil 15 bbls water	Volume Recovered
Source of Release Overflow tank	Date and Hour of Occurrence Estimated: July 14, 2011	Date and Hour of Discovery Approximately: Aug 14, 2011
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	
By Whom? Jennifer Van Curen w/BLM	Date and Hour	
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

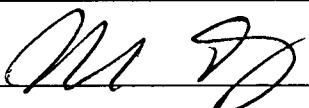
Describe Cause of Problem and Remedial Action Taken.*

Electrical malfunction caused an injection pump to be down long enough that the overflow tank ran over

Describe Area Affected and Cleanup Action Taken.*

Tetra Tech inspected site and collected samples to define spills extent. Soil with elevated chloride concentrations was removed and hauled away to Gandy Marley, Inc. Additional areas, at the request of the BLM, were excavated and lined. The Site was then brought up to surface grade with clean backfill material. Tetra Tech prepared closure report and submitted to NMOCD for review.

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: 	<u>OIL CONSERVATION DIVISION</u>		
Printed Name: Ike Tavarez	Approved by District Supervisor:		
Title: Project Manager	Approval Date:	Expiration Date:	
E-mail Address: ike.tavarez@tetrattech.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 5/16/12	Phone: (432) 682-4559		

* Attach Additional Sheets If Necessary

2PA-881

District I
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State of New Mexico
Energy Minerals and Natural Resources

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

157
Form C-141
Revised August 8, 2011

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	ALAMO PERMIAN RESOURCES, LLC	Contact	STEVEN MASTIN
Address	415 W. WALL ST. SUITE 500	Telephone No.	432 557 5847
Facility Name	BERRY A 33	Facility Type	
Surface Owner	FEDERAL	Mineral Owner	FEDERAL
		API No.	30-015-25154

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
K	24	17S	27E	1650	S	2040	W	EDDY

Latitude 32.8168411354531

Longitude -104.234151895391

NATURE OF RELEASE

Type of Release: OIL & WATER	Volume of Release: EST 18 BBLs (3bbls oil & 15 bbls water)	Volume Recovered:
Source of Release: OVERFLOW TANK	Date and Hour of Occurrence: EST JULY 14, 2011	Date and Hour of Discovery APPROX AUG 14, 2011
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	
By Whom? JENNIFER VAN CUREN w/ BLM	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

Cause of problem: An electrical malfunction caused an injection pump to be down long enough that the overflow tank ran over

Describe Area Affected and Cleanup Action Taken.*

TBD

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OIL CONSERVATION DIVISION

Signature: <i>Carie Stoker</i>	Approved by Environmental Specialist:		
Printed Name: CARIE STOKER			
Title: REGULATORY/ PRODUCTION TECH	Approval Date:	Expiration Date:	
E-mail Address: cstoker@alamoresources.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 08/29/2011	Phone: 432 664 7659		

* Attach Additional Sheets If Necessary

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Revised October 10, 2003

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side of form

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OPERATOR

☐ Initial Report ☒ Final Report

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Address 415 W. Wall St. Suite 500	Telephone No. (432) 557-5847
Facility Name Berry A #33	Facility Type
Surface Owner Federal	Mineral Owner Federal
Lease No. API No. 30-015-25154	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
K	24	17-S	27-E	1650	South	2040	West	Eddy

Latitude N 32.81684° Longitude W 104.23415°

NATURE OF RELEASE

Type of Release: Water	Volume of Release 25 bbls	Volume Recovered
Source of Release Overflow tank	Date and Hour of Occurrence Aug 30, 2011	Date and Hour of Discovery Aug 30, 2011
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Steven Mastin	
By Whom? Ricky Rodriguez, pumper	Date and Hour Aug 30, 2011	
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.* Electrical malfunction caused an injection pump to be down long enough that the overflow tank ran over		
Describe Area Affected and Cleanup Action Taken.* Tetra Tech inspected site and collected samples to define spills extent. Soil with elevated chloride concentrations was removed and hauled away to Gandy Marley, Inc. Additional areas, at the request of the BLM, were excavated and lined. The Site was then brought up to surface grade with clean backfill material. Tetra Tech prepared closure report and submitted to NMOCD for review.		
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: Ike Tavarez	Approved by District Supervisor:	
Title: Project Manager	Approval Date:	Expiration Date:
E-mail Address: ike.tavarez@tetrattech.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 5/16/12 Phone: (432) 682-4559		

Attach Additional Sheets If Necessary

2RP-891

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

Form C-141
Revised August 8, 2011

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	ALAMO PERMIAN RESOURCES, LLC	Contact	STEVEN MASTIN
Address	415 W. WALL ST. SUITE 500	Telephone No.	432 557 5847
Facility Name	BERRY A 33	Facility Type	
Surface Owner	FEDERAL	Mineral Owner	FEDERAL
		API No.	30-015-25154

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
K	24	17S	27E	1650	S	2040	W	EDDY

Latitude 32.8168411354531

Longitude -104.234151895391

NATURE OF RELEASE

Type of Release: WATER	Volume of Release: 25 BBLS	Volume Recovered:
Source of Release: OVERFLOW TANK	Date and Hour of Occurrence: AUG 30, 2011	Date and Hour of Discovery AUG 30, 2011
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? STEVEN MASTIN	
By Whom? RICKY RODRIGUEZ, PUMPER	Date and Hour AUG 30, 2011	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

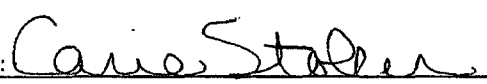
Describe Cause of Problem and Remedial Action Taken.*

Cause of problem: An electrical malfunction caused an injection pump to be down long enough that the overflow tank ran over

Describe Area Affected and Cleanup Action Taken.*

TBD

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: CARIE STOKER	Approved by Environmental Specialist:		
Title: REGULATORY/ PRODUCTION TECH	Approval Date:	Expiration Date:	
E-mail Address: cstoker@alamoresources.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 08/30/2011	Phone: 432 664 7659		

* Attach Additional Sheets If Necessary.

Appendix B

Water Well Data
Average Depth to Groundwater (ft)
Alamo - Berry A #33
Eddy County, New Mexico

16 South 26 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

16 South 27 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

16 South 28 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

17 South 26 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








17 South 27 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

17 South 28 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

18 South 26 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

18 South 27 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

18 South 28 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

-  New Mexico State Engineers Well Reports
-  USGS Well Reports
-  Geology and Groundwater Conditions in Southern Eddy, County, NM
-  NMOCD - Groundwater Data
-  Field water level
-  New Mexico Water and Infrastructure Data System
-  Site Location - Berry A #33

Appendix C

Summary Report

Ike Tavaréz
Tetra Tech
1910 N. Big Spring Street
Midland, TX 79705

Report Date: January 31, 2012

Work Order: 12012602



Project Location: Eddy Co., NM
Project Name: Alamo/Berry A #33
Project Number: 114-6401102

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
287421	BH-1 0-1'	soil	2012-01-23	00:00	2012-01-25
287422	BH-1 2-3'	soil	2012-01-23	00:00	2012-01-25
287423	BH-1 4-5'	soil	2012-01-23	00:00	2012-01-25
287424	BH-1 6-7'	soil	2012-01-23	00:00	2012-01-25
287425	BH-1 9-10'	soil	2012-01-23	00:00	2012-01-25
287426	BH-1 14-15'	soil	2012-01-23	00:00	2012-01-25
287427	BH-1 19-20'	soil	2012-01-23	00:00	2012-01-25
287428	BH-1 29-30'	soil	2012-01-23	00:00	2012-01-25
287429	BH-1 39-40'	soil	2012-01-23	00:00	2012-01-25
287432	BH-2 0-1'	soil	2012-01-23	00:00	2012-01-25
287433	BH-2 2-3'	soil	2012-01-23	00:00	2012-01-25
287434	BH-2 4-5'	soil	2012-01-23	00:00	2012-01-25
287435	BH-2 6-7'	soil	2012-01-23	00:00	2012-01-25
287436	BH-2 9-10'	soil	2012-01-23	00:00	2012-01-25
287437	BH-2 14-15'	soil	2012-01-23	00:00	2012-01-25
287438	BH-2 19-20'	soil	2012-01-23	00:00	2012-01-25
287439	BH-2 24-25'	soil	2012-01-23	00:00	2012-01-25
287440	BH-2 29-30'	soil	2012-01-23	00:00	2012-01-25
287441	BH-2 39-40'	soil	2012-01-23	00:00	2012-01-25
287442	BH-3 0-1'	soil	2012-01-23	00:00	2012-01-25
287443	BH-3 2-3'	soil	2012-01-23	00:00	2012-01-25
287444	BH-3 4-5'	soil	2012-01-23	00:00	2012-01-25
287445	BH-3 6-7'	soil	2012-01-23	00:00	2012-01-25
287446	BH-3 9-10'	soil	2012-01-23	00:00	2012-01-25
287451	BH-4 0-1'	soil	2012-01-24	00:00	2012-01-25
287452	BH-4 2-3'	soil	2012-01-24	00:00	2012-01-25
287453	BH-4 4-5'	soil	2012-01-24	00:00	2012-01-25
287454	BH-4 6-7'	soil	2012-01-24	00:00	2012-01-25
287455	BH-4 9-10'	soil	2012-01-24	00:00	2012-01-25
287456	BH-4 14-15'	soil	2012-01-24	00:00	2012-01-25

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
287457	BH-4 19-20'	soil	2012-01-24	00:00	2012-01-25
287458	BH-4 24-25'	soil	2012-01-24	00:00	2012-01-25
287459	BH-4 29-30'	soil	2012-01-24	00:00	2012-01-25
287461	BH-5 0-1'	soil	2012-01-24	00:00	2012-01-25
287462	BH-5 2-3'	soil	2012-01-24	00:00	2012-01-25
287463	BH-5 4-5'	soil	2012-01-24	00:00	2012-01-25
287470	BH-6 0-1'	soil	2012-01-24	00:00	2012-01-25
287471	BH-6 2-3'	soil	2012-01-24	00:00	2012-01-25
287472	BH-6 4-5'	soil	2012-01-24	00:00	2012-01-25

Sample: 287421 - BH-1 0-1'

Param	Flag	Result	Units	RL
Chloride		8250	mg/Kg	4

Sample: 287422 - BH-1 2-3'

Param	Flag	Result	Units	RL
Chloride		10900	mg/Kg	4

Sample: 287423 - BH-1 4-5'

Param	Flag	Result	Units	RL
Chloride		9010	mg/Kg	4

Sample: 287424 - BH-1 6-7'

Param	Flag	Result	Units	RL
Chloride		1010	mg/Kg	4

Sample: 287425 - BH-1 9-10'

Param	Flag	Result	Units	RL
Chloride		8460	mg/Kg	4

Sample: 287426 - BH-1 14-15'*continued ...*

sample 287426 continued ...

Param	Flag	Result	Units	RL
Param	Flag	Result	Units	RL
Chloride		14200	mg/Kg	4

Sample: 287427 - BH-1 19-20'

Param	Flag	Result	Units	RL
Chloride		11300	mg/Kg	4

Sample: 287428 - BH-1 29-30'

Param	Flag	Result	Units	RL
Chloride		1480	mg/Kg	4

Sample: 287429 - BH-1 39-40'

Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4

Sample: 287432 - BH-2 0-1'

Param	Flag	Result	Units	RL
Chloride		15100	mg/Kg	4

Sample: 287433 - BH-2 2-3'

Param	Flag	Result	Units	RL
Chloride		15000	mg/Kg	4

Sample: 287434 - BH-2 4-5'

Param	Flag	Result	Units	RL
Chloride		13500	mg/Kg	4

Sample: 287435 - BH-2 6-7'

Report Date: January 31, 2012

Work Order: 12012602

Page Number: 4 of 7

Param	Flag	Result	Units	RL
Chloride		6610	mg/Kg	4

Sample: 287436 - BH-2 9-10'

Param	Flag	Result	Units	RL
Chloride		2800	mg/Kg	4

Sample: 287437 - BH-2 14-15'

Param	Flag	Result	Units	RL
Chloride		14700	mg/Kg	4

Sample: 287438 - BH-2 19-20'

Param	Flag	Result	Units	RL
Chloride		6800	mg/Kg	4

Sample: 287439 - BH-2 24-25'

Param	Flag	Result	Units	RL
Chloride		291	mg/Kg	4

Sample: 287440 - BH-2 29-30'

Param	Flag	Result	Units	RL
Chloride		858	mg/Kg	4

Sample: 287441 - BH-2 39-40'

Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4

Sample: 287442 - BH-3 0-1'

Param	Flag	Result	Units	RL
Chloride		537	mg/Kg	4

Sample: 287443 - BH-3 2-3'

Param	Flag	Result	Units	RL
Chloride		790	mg/Kg	4

Sample: 287444 - BH-3 4-5'

Param	Flag	Result	Units	RL
Chloride		482	mg/Kg	4

Sample: 287445 - BH-3 6-7'

Param	Flag	Result	Units	RL
Chloride		3050	mg/Kg	4

Sample: 287446 - BH-3 9-10'

Param	Flag	Result	Units	RL
Chloride		386	mg/Kg	4

Sample: 287451 - BH-4 0-1'

Param	Flag	Result	Units	RL
Chloride		4700	mg/Kg	4

Sample: 287452 - BH-4 2-3'

Param	Flag	Result	Units	RL
Chloride		5750	mg/Kg	4

Sample: 287453 - BH-4 4-5'

Param	Flag	Result	Units	RL
Chloride		9550	mg/Kg	4

Sample: 287454 - BH-4 6-7'

Param	Flag	Result	Units	RL
Chloride		771	mg/Kg	4

Sample: 287455 - BH-4 9-10'

Param	Flag	Result	Units	RL
Chloride		5050	mg/Kg	4

Sample: 287456 - BH-4 14-15'

Param	Flag	Result	Units	RL
Chloride		12200	mg/Kg	4

Sample: 287457 - BH-4 19-20'

Param	Flag	Result	Units	RL
Chloride		6660	mg/Kg	4

Sample: 287458 - BH-4 24-25'

Param	Flag	Result	Units	RL
Chloride		2150	mg/Kg	4

Sample: 287459 - BH-4 29-30'

Param	Flag	Result	Units	RL
Chloride		1190	mg/Kg	4

Sample: 287461 - BH-5 0-1'

Param	Flag	Result	Units	RL
Chloride		560	mg/Kg	4

Sample: 287462 - BH-5 2-3'

Param	Flag	Result	Units	RL
Chloride		613	mg/Kg	4

Sample: 287463 - BH-5 4-5'

Param	Flag	Result	Units	RL
Chloride		2180	mg/Kg	4

Sample: 287470 - BH-6 0-1'

Param	Flag	Result	Units	RL
Chloride		450	mg/Kg	4

Sample: 287471 - BH-6 2-3'

Param	Flag	Result	Units	RL
Chloride		532	mg/Kg	4

Sample: 287472 - BH-6 4-5'

Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4

Summary Report

Ike Tavarez
Tetra Tech
1910 N. Big Spring Street
Midland, TX 79705

Report Date: February 8, 2012

Work Order: 12012602

Project Location: Eddy Co., NM
Project Name: Alamo/Berry A #33
Project Number: 114-6401102

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
287421	BH-1 0-1'	soil	2012-01-23	00:00	2012-01-25
287432	BH-2 0-1'	soil	2012-01-23	00:00	2012-01-25
287442	BH-3 0-1'	soil	2012-01-23	00:00	2012-01-25
287451	BH-4 0-1'	soil	2012-01-24	00:00	2012-01-25
287460	BH-4 39-40'	soil	2012-01-24	00:00	2012-01-25
287461	BH-5 0-1'	soil	2012-01-24	00:00	2012-01-25
287464	BH-5 6-7'	soil	2012-01-24	00:00	2012-01-25
287465	BH-5 9-10'	soil	2012-01-24	00:00	2012-01-25
287466	BH-5 14-15'	soil	2012-01-24	00:00	2012-01-25
287467	BH-5 19-20'	soil	2012-01-24	00:00	2012-01-25
287470	BH-6 0-1'	soil	2012-01-24	00:00	2012-01-25

Sample - Field Code	BTEX				TPH DRO - NEW	TPH GRO
	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylene (mg/Kg)	DRO (mg/Kg)	GRO (mg/Kg)
287421 - BH-1 0-1'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	3.01
287432 - BH-2 0-1'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	2.78
287442 - BH-3 0-1'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	2.54
287451 - BH-4 0-1'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	2.52
287461 - BH-5 0-1'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	2.54
287470 - BH-6 0-1'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	2.22

Sample: 287460 - BH-4 39-40'

Param	Flag	Result	Units	RL
Chloride		256	mg/Kg	4

Sample: 287464 - BH-5 6-7'

Param	Flag	Result	Units	RL
Chloride		2150	mg/Kg	4

Sample: 287465 - BH-5 9-10'

Param	Flag	Result	Units	RL
Chloride		375	mg/Kg	4

Sample: 287466 - BH-5 14-15'

Param	Flag	Result	Units	RL
Chloride		1540	mg/Kg	4

Sample: 287467 - BH-5 19-20'

Param	Flag	Result	Units	RL
Chloride		217	mg/Kg	4