



# AE Order Number Banner

## Report Description

This report shows an AE Order Number in Barcode format for purposes of scanning. The Barcode format is Code 39.



**App Number:** pJXK1620948160

**1RP - 4364**

**NMR ENERGY LLC**

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

HOBBS OCD

MAY 22 2012

Form C-141  
Revised August 8, 2011

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

RECEIVED

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	NMR ENERGY LLC	Contact	HOLLIE LAMB
Address	800 BERING DR. SUITE 250	Telephone No.	432 682 1122
Facility Name	BARNHILL AND POST	Facility Type	TANK BATTERY

Surface Owner	FEE	Mineral Owner	FEE	API No.	30-025-28198
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	1	14S	37E	1650	S	990	W	Lea

Latitude 33.13336 Longitude -103.16141

NATURE OF RELEASE

Type of Release: unknown	Volume of Release: unknown	Volume Recovered:
Source of Release: unknown	Date and Hour of Occurrence: Unknown	Date and Hour of Discovery Unknown
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	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.\*

On April 4, 2012, a C-141 was requested by NMOCD personnel. The NMOCD indicated there was historical impact by the previous operator to the site in question, beyond what was furnished to us in the operator record or public record, at the time of assumption of the operator.

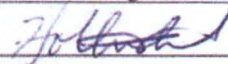
Cause of problem:  
Unknown

GW 80'

Describe Area Affected and Cleanup Action Taken.\*

The suspect area will be assessed to determine if any soils are above the RRAL. Based on the assessment, the remediation work plan will be submitted for approval.

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: HOLLIE LAMB	Approved by Environmental Specialist:		
Title: REGULATORY AFFAIRS COORDINATOR	Approval Date:	Expiration Date:	
E-mail Address: hlamb@helmsol.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 04/09/2012	Phone: 432 682 1122		

\* Attach Additional Sheets If Necessary-SEE ATTACHED

NOTE: This historical release notification is being filed at the request of Daniel Sanchez and Sonny Suazo with the NMOCD. Request to file was made during a meeting with them April 04, 2012 in New Mexico. The release occurred during ownership of the previous operator.





HOBBS OCD

MAY 22 2012

RECEIVED

April 19, 2012

Mr. Geoffrey Leking  
Environmental Engineer Specialist  
Oil Conservation Division, District 1  
1625 North French Drive  
Hobbs, New Mexico 88240

**Re: Assessment Work Plan for the NMR Energy, LLC., Barnhill and Post Tank Battery, Unit L, Section 1, Township 14 South, Range 37 East, Lea County, New Mexico.**

Mr. Leking:

Tetra Tech, Inc. (Tetra Tech) was contacted by NMR Energy, LLC., (NMR) to assess a reportedly historical impact at the Barnhill and Post Tank Battery, Unit L, Section 1, Township 14 South, Range 37 East, Lea County, New Mexico (Site). The site coordinates are N 33.13336°, W 103.16141°. The site location is shown on Figures 1 and 2.

### **Background**

The NMOCD requested NMR Energy to submit a State of New Mexico C-141 Initial Report for a reportedly historical spill that occurred under the previous operator of the facility. The initial C-141 form is enclosed in Appendix A.

### **Groundwater**

The New Mexico State Engineer's Office Well Reports showed one well in Section 1, with a reported groundwater depth of 50' below surface. In addition, wells were also noted in Section 2, 11 and 14, near the site, with depths to groundwater ranging from 46' to 100' below surface. The USGS data also showed groundwater depths ranging from 85' to 120' below surface. According to the NMOCD groundwater map and data, the depth to groundwater in this area is approximately 80' below surface. The groundwater data is shown in Appendix B.

**Tetra Tech**

1910 North Big Spring, Midland, TX 79705

Tel 432.682.4559 Fax 432.682.3946 [www.tetrattech.com](http://www.tetrattech.com)



## **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. Based upon the depth to groundwater, the proposed RRAL for TPH is 1,000 mg/kg.

If the delineation assessment determines the groundwater is less than 50' below surface, the Site will be remediated to the appropriate RRAL. In addition, Tetra Tech will collect a static water level on any water wells in the area to confirm the groundwater depth for the area, if accessible.

## **Assessment Work Plan**

According to the NMOCD, the historical impact is located inside the facility berm. The proposed location is shown in Figure 3 and 4. Tetra Tech will install one backhoe trench inside the berm to evaluate and define the vertical extent of subsurface impact. If the soil impact cannot be vertically defined, a borehole will be installed using an air rotary rig. Soil samples will be collected at selected depth intervals for field screening and sampling. A head space gas survey will be performed by collecting discrete soil samples and placing a portion of the sample in a clean plastic sample bag and measuring organic vapors using an Organic Vapor Meter (OVM).

If a drilling rig is utilized, all down hole equipment (i.e., drill rods, drill bits, etc.) will thoroughly decontaminated between each borehole with a high-pressure hot water wash and rinse. Soil cuttings from drilling will be stockpiled adjacent to the well until disposal is arranged.

The samples selected for analysis will be determined from field observation and data. All samples will be collected and preserved in laboratory prepared sample containers with standard QA/QC procedures. All samples will be shipped under proper chain-of-custody control and analyzed within the standard holding times. The soil samples will be analyzed for Total Petroleum Hydrocarbon (TPH) by method 8015 DRO/GRO, Benzene, Toluene, Ethyl benzene, and Xylene (BTEX) by method EPA Method 8021B and chloride by method EPA method 300.





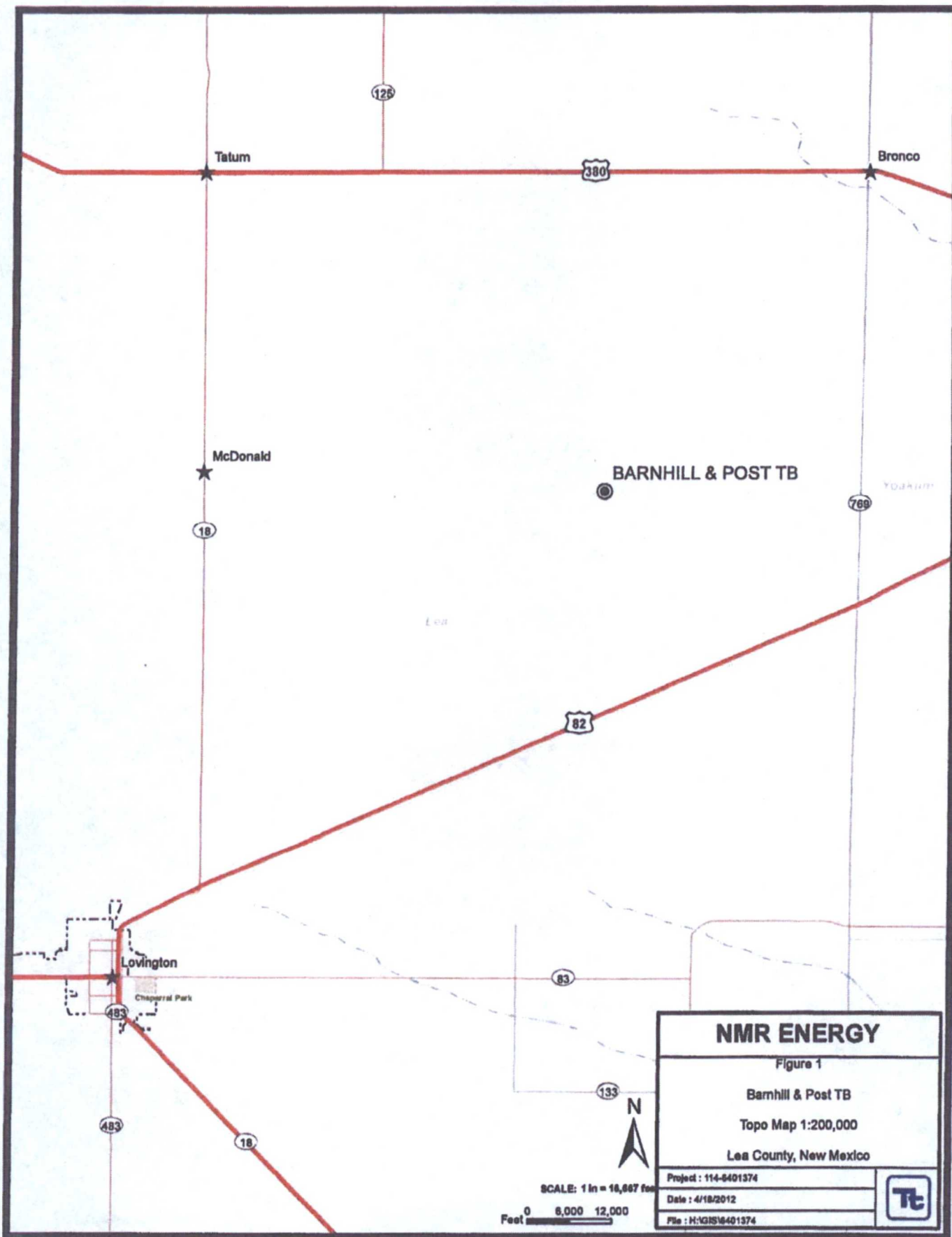
**TETRA TECH**

Once the analytical data has been received and review, a remediation work plan will be prepared and submitted to the NMOCD for approval. If you have any questions or comments concerning the proposed work plan, please call me at (432) 682-4559.

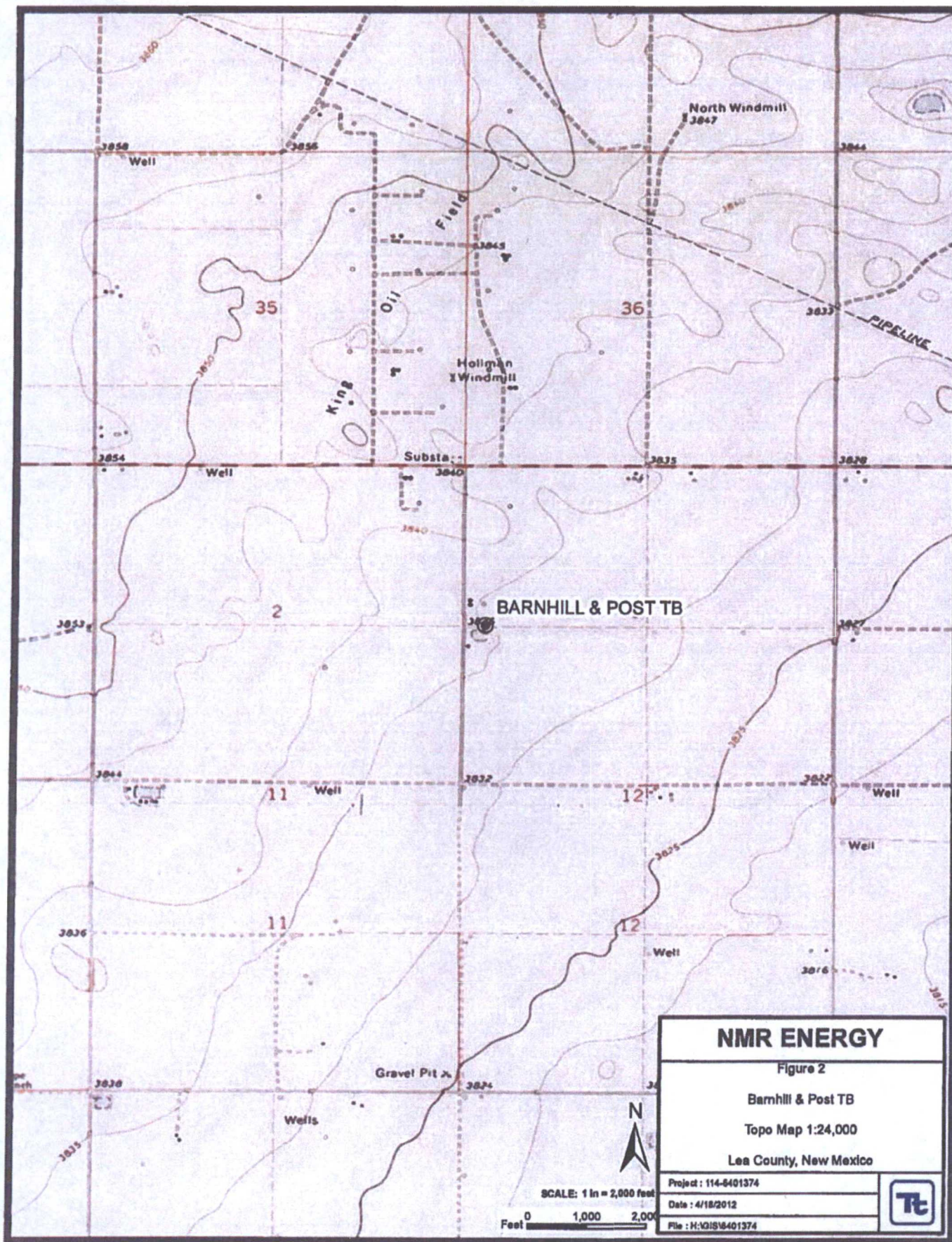
Respectfully submitted,  
TETRA TECH

Ike Tavarez , PG  
Sr. Project Manager

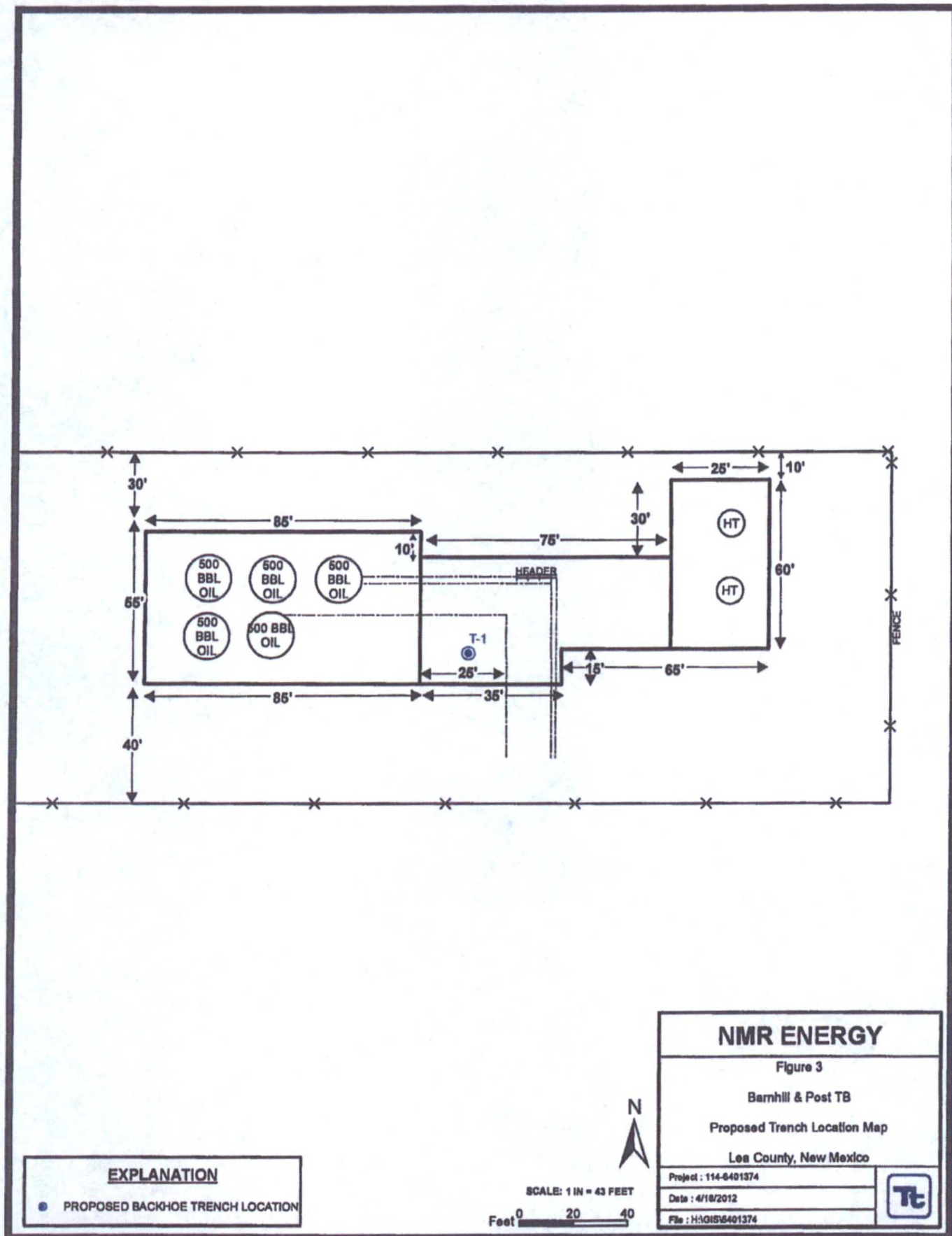
cc: Hollie Lamb - HeLM











**EXPLANATION**

- PROPOSED BACKHOE TRENCH LOCATION



SCALE: 1 IN = 43 FEET

Feet 0 20 40

**NMR ENERGY**

Figure 3

Barnhill & Post TB

Proposed Trench Location Map

Lea County, New Mexico

Project : 114-6401374

Date : 4/18/2012

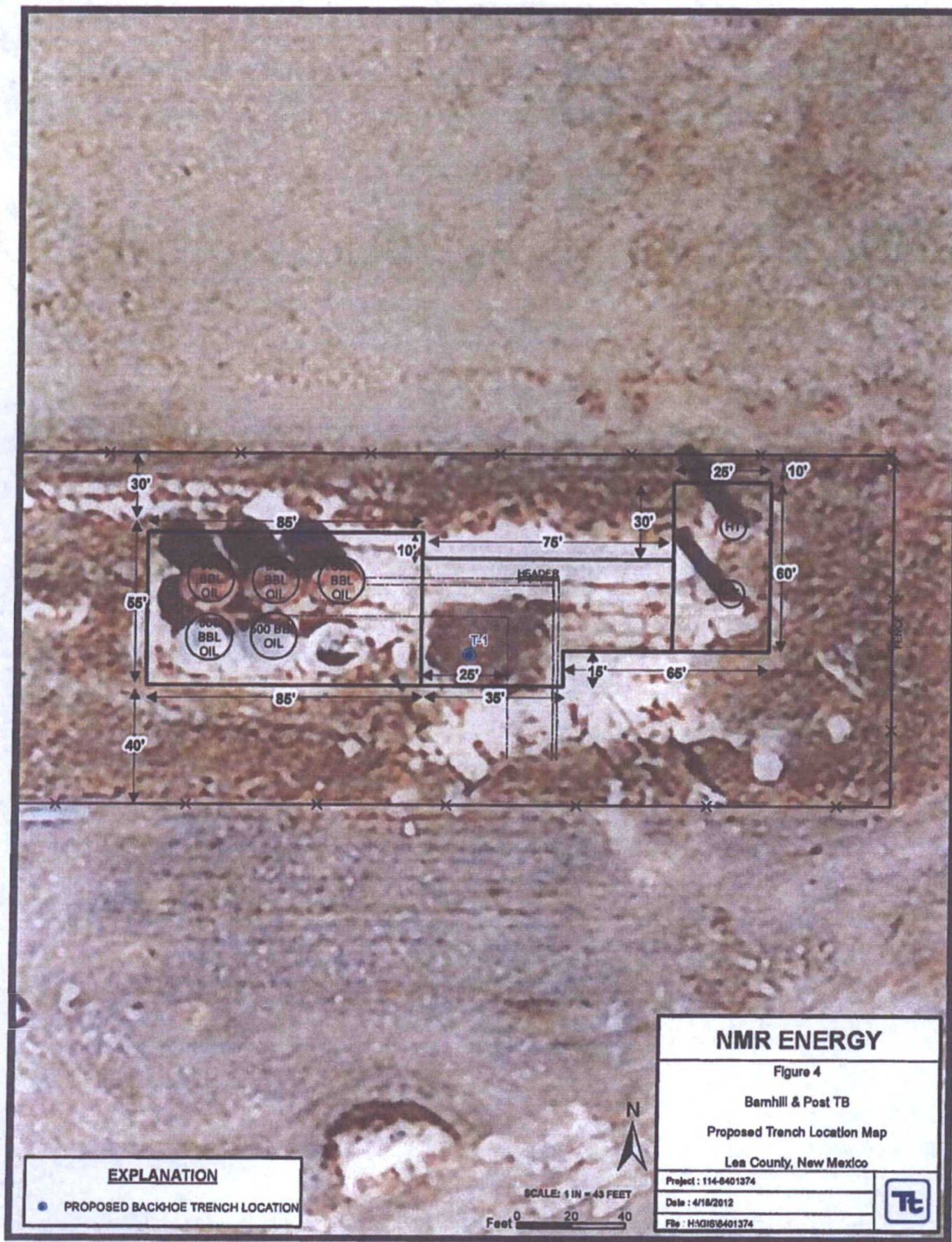
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## Appendix A





# EXPLANATION

- PROPOSED BACKHOE TRENCH LOCATION

## NMR ENERGY

Figure 4

Barnhill & Post TB

Proposed Trench Location Map

Lea County, New Mexico

Project : 114-8401374

Date : 4/18/2012

File : HXGIS\8401374





## Appendix B

**Water Well Data**  
**Average Depth to Groundwater (ft)**  
**NMR - Barnhill and Post Tank Battery**  
**Lea County, New Mexico**

13 South			36 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

13 South			37 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 40
31	32	33	34	35 65	36 78 40
				80	65

13 South			38 East		
6	5	4	3	2	
7	8	9	10	11	
18	17	16	15	14	
19	20	21	22	23	
53	40				
30	29	28	27	26	
85					
31	32	33	34	35	
87					

14 South			36 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

14 South			37 East		
6	5	4	3 32	2 55	1 85
85				46	50
7	8 42	9	10 62	11 85	12 85
				60	
18	17	16	15	14	13
			50	100	120
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

14 South			38 East		
6 77	5 45	4	3	2	
7	8	9 45	10	11	
18	17	16	15	14	
115					
19 40	20	21	22	23	
65					
30	29	28	27	26	
31	32	33	34	35	

15 South			36 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

15 South			37 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

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

**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



**GAS**

UN **LINDENMUTH & ASSOCIATES, INC.** ON

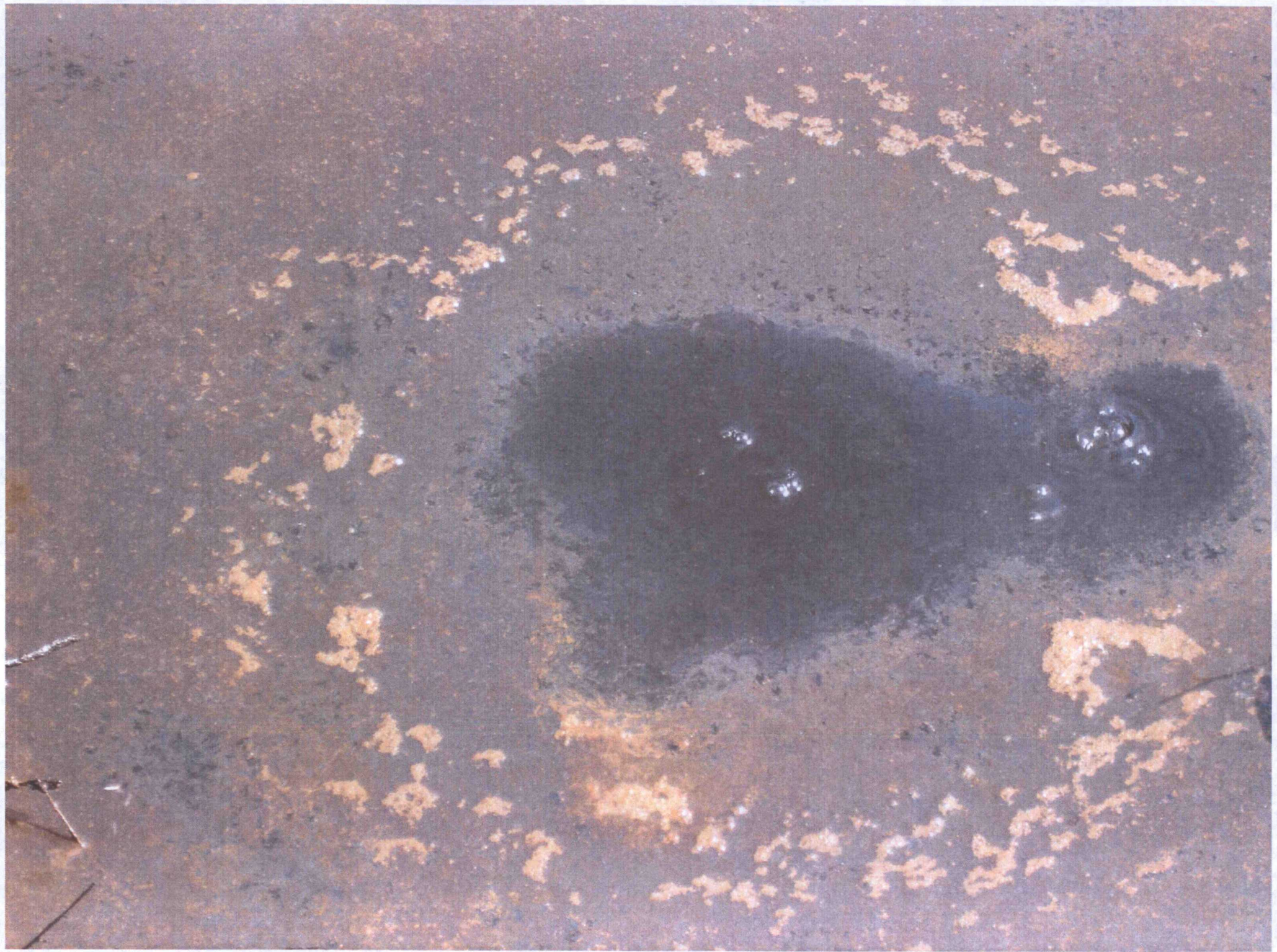
AUSTIN, TEXAS 78703 (512) 322-9779

POST LEASE  
BARNHILL LEASE  
UT. L. SEC. 1. T 14S. R 37E  
LEA CO.. NEW MEXICO

In Ca  
Emerg  
Lucky R  
24  
(505) 39

Pumper  
Hose  
Motor























UNION LINDENMUTH & ASSOCIATES, INC. ORP.

AUSTIN, TEXAS 78703 (512) 322-9779

BARNHILL #1 SOUTH KING DEV.

NW/4 SW/4

SEC. 1. T 14S. R 37E

LEA CO., NEW MEXICO

In Case Of  
Emergency Call  
Lucky R Pumping  
24 Hrs.  
(505) 394-2824