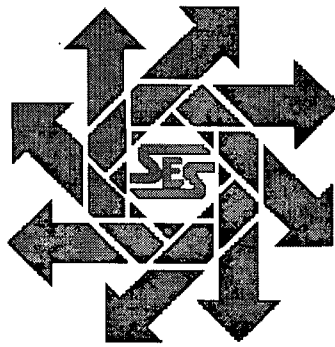


**Holly Energy Partners  
T #2 Release  
Delineation Report/Work Plan  
Section 15, Township 20S, Range 28E  
Eddy County, New Mexico**

**August 20, 2009**



**Prepared for:**

**Holly Energy Partners  
P.O. Box 1260  
Artesia, New Mexico 88211**

**By:**

**Safety & Environmental Solutions, Inc.  
703 East Clinton  
Hobbs, New Mexico 88240  
(575) 397-0510**

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**I. Company Contacts**

<b>NAME</b>	<b>Company</b>	<b>Telephone</b>	<b>E-mail</b>
Dickie Townley	Holly Energy Partners	(575) 748-8949	Dickie.Townley@hollyenergy.com
Bob Allen	SESI	505-397-0510	ballen@sesi-nm.com

**II. Background**

Safety and Environmental Solutions, Inc. (SESI) was engaged by Holly Energy Partners to perform site assessment at a release area at the T #2 located in Eddy County, New Mexico. A pipeline leak released an unknown volume of hydrocarbon fluid onto the ground.

**III. Surface and Ground Water**

The closest groundwater of record listed with the New Mexico office of the state engineer is located in the same section, range and township. The depth of water in this well was 48'.

**IV. Soils**

The surface soils in the area are predominantly sand and sandy loam.

**V. Work Performed**

On June 19, 2009 SESI was onsite to delineate the exposed pipeline leak utilizing a hand auger. D&D Construction was previously onsite and had excavated the around the flowline to a depth of five (5) feet.

On June 25, 2009 SESI was onsite to delineate the excavation utilizing a hand auger. Auger refusal was encountered at a depth of 15 feet due to hard rock layer. A sample was retrieved at a depth of 15 feet and was properly preserved and transported under Chain-of-Custody to Cardinal Laboratories of Hobbs, New Mexico for analysis. The sample was analyzed for Total Petroleum Hydrocarbons (EPA Method 418.1) and BTEX (EPA Method SW-846-8021B).

The results of the analysis are as follows:

<b>Sample ID</b>	<b>TPH (mg/kg)</b>	<b>Benzene (mg/kg)</b>	<b>Toluene (mg/kg)</b>	<b>Ethyl Benzene (mg/kg)</b>	<b>Xylenes (mg/kg)</b>
15' BGL	26,500	12.5	200	118	746

On August 7, 2009 SESI was onsite with Atkins Drilling to further delineate the affected area. Borehole #1 was drilled to a depth of 30'.

Samples were retrieved at the depths of 20' 25' and 30' below ground level. The samples were transported under Chain of Custody to Cardinal Laboratories of Hobbs, New Mexico for analysis. The sample was analyzed for Total Petroleum Hydrocarbons (EPA Method 418.1) and BTEX (EPA Method SW-846-8021B).

The results of the analysis are as follows:

Sample ID	TPH (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl Benzene (mg/kg)	Xylenes (mg/kg)
20' BGL	8,840	4.60	23.3	7.22	52.5
25' BGL	<100	0.641	5.17	2.04	15.0
30' BGL	<100	0.183	0.519	0.356	2.05

Based upon the analytical results, the vertical extent of TPH contamination was determined at a depth of twenty-five (25) feet.

## **VI. Action Plan**

Based on the characterization of the site, the cleanup level reached by the application of the “**Guidelines for Remediation of Leaks, Spills and Releases**” *New Mexico Oil Conservation Division (NMOCD)* – August 13, 1993 (Guidelines) to this site is 100 parts per million (ppm) Total Petroleum Hydrocarbons (TPH). Application of the New Mexico Oil Conservation Division's ranking criteria for contaminated soils at this site is presented below:

Depth to Ground Water:	20 points
Distance to Well Head or Water Source:	0 points
Distance to Surface Water/Waterways:	0 points
Total Score:	20 points

It is requested that the area be excavated horizontally to 100 ppm and that the most highly contaminated soil be transported to a New Mexico Oil Conservation Division (NMOCD) approved facility for disposal. The area will then be backfilled with clean soils and contoured to natural grade.

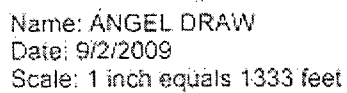
## **VII. Figures & Appendices**

Figure 1 – Vicinity Map  
Figure 2 – Site Plan  
Figure 3 – Logs of Boring  
Appendix A – Analytical Results  
Appendix B – Site Photos



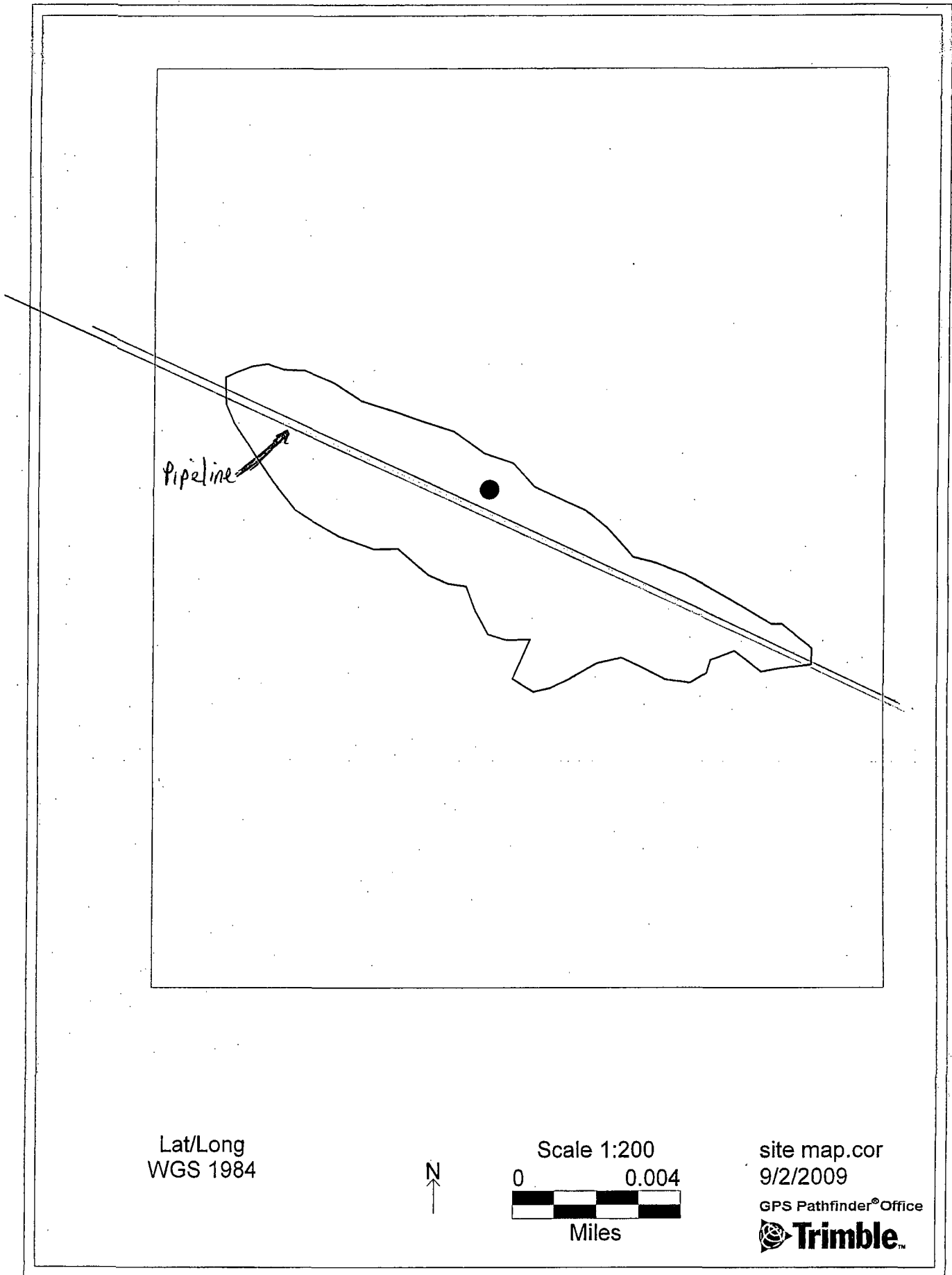
# **Figure 1**

## **Vicinity Map**



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## **Figure 2 Site Plan**

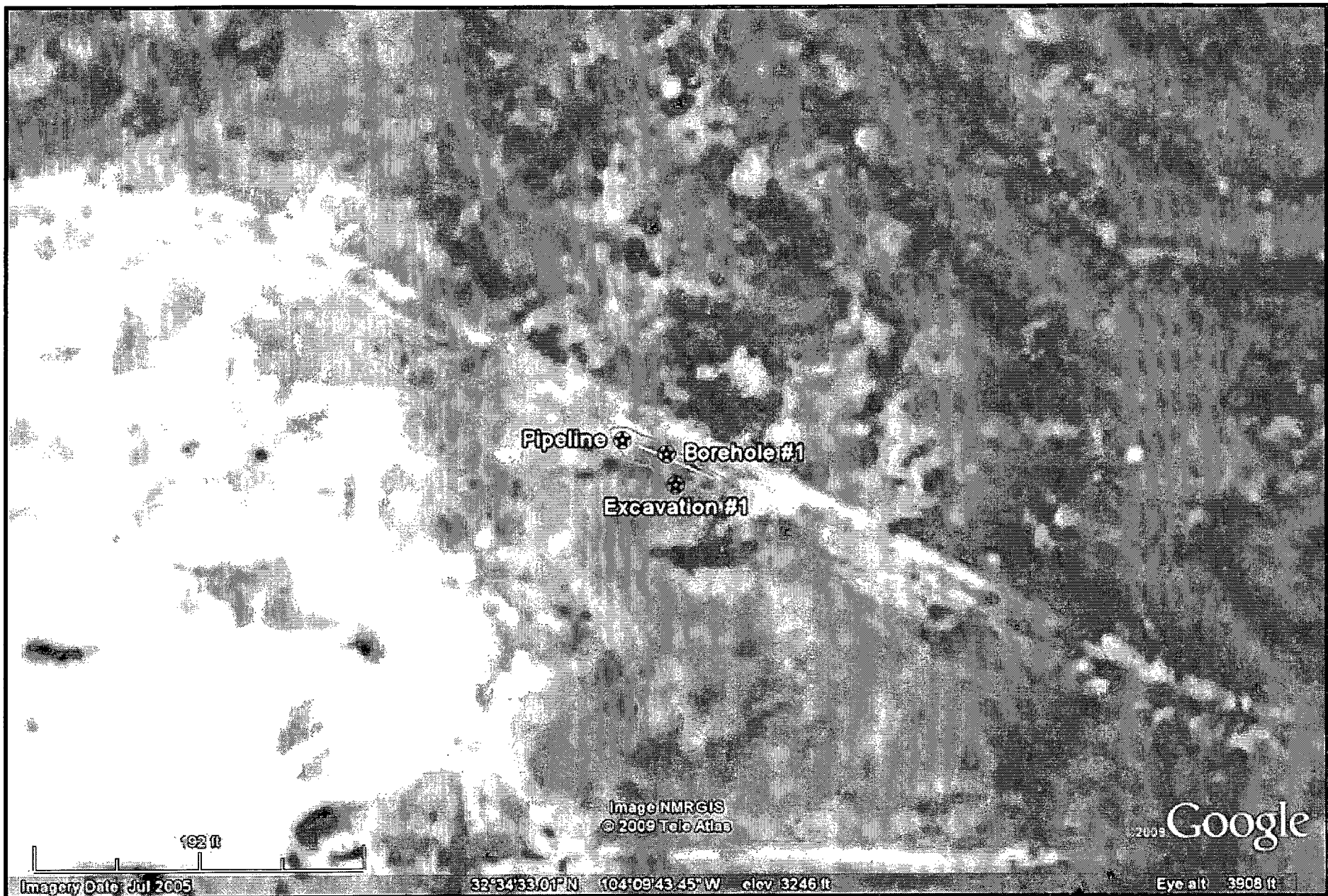


Lat/Long  
WGS 1984



Scale 1:200  
0 0.004  
Miles

site map.cor  
9/2/2009  
GPS Pathfinder® Office  
 **Trimble**™



Pipeline ✱ ✱ Borehole #1  
✱  
Excavation #1

Image NMRGIS  
© 2009 Telo Atlas

2009 Google

192 ft  
Imagery Date: Jul 2005

32°34'33.01"N 104°09'43.45"W elev 3246 ft

Eye alt 3908 ft

## **Figure 3**

### **Logs of Boring**



**Safety & Environmental  
Solutions, Inc.**

# LOG OF BORING BH-1

(Page 1 of 1)

Holly Energy Partners  
T#2 Pipeline Release  
Unit letter G, Section 15, T20S, R28E  
Eddy County, New Mexico  
N32° 34' 32.9", W104° 09' 43.3"

Date, Time Started : 08/07/09, 0800  
Date, Time Complete : 08/07/09, 0835  
Hole Diameter : 8 1/4 in.  
Drilling Method : Hollow Stem Auger  
Drilling Equipment : Foremost-Mobile B-58

Drilled By : Atkins Engineering  
Sampling Method : 2 ft. split spoon  
Logged By : Isaac Kincaid  
Company Rep. :

Depth in Feet	Sample Type	Recovery (ft.)	USCS	GRAPHIC	Sample Type: SS Split Spoon (18" or 24") CB Core Barrel (2.5' or 5') CT Auger Cuttings NR No recovery	Lab No.	TPH-418.1 (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethyl Benzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)
					DESCRIPTION							
0					Previously excavated, open excavation							
5												
10												
15	SS	--	CA		15-20 ft. CALICHE, soft, white with heavy odor. Moist due to rain water	H-17757-1	26,500	12.5	200	118	746	1,076
20	SS	--	CA		20-25 ft. CALICHE, sandy, with staining and heavy odor, odor decreasing at 25 ft.	H-17949-1	8,840	4.60	23.3	7.22	52.5	87.6
25	SS	--	SP		25-28 ft. SAND, white	H-17949-2	<100	0.641	5.17	2.04	15.0	22.8
30			CL		28-30 ft. CLAY, red, very cohesive, no odor or staining	H-17949-3	<100	0.183	0.519	0.356	2.05	3.11

**Notes:**

Upon completion, plugged back to surface with 4 bags bentonite, hydrated

2:30:00 PM 08/07/09 Holly Energy Partners T#2 Pipeline Release Unit letter G, Section 15, T20S, R28E Eddy County, New Mexico N32° 34' 32.9", W104° 09' 43.3"

# **Appendix A**

## **Analytical Results**





PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR  
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.  
ATTN: BOB ALLEN  
703 E. CLINTON, #102  
HOBBS, NM 88240  
FAX TO: (575) 393-4388

Receiving Date: 07/06/09  
Reporting Date: 07/10/09  
Project Number: HOL-09-012  
Project Name: HOLLY T#2 RELEASE  
Project Location: EDDY CO., NM

Sampling Date: 06/25/09  
Sample Type: SOIL  
Sample Condition: INTACT @ 17.5 °C  
Sample Received By: ML  
Analyzed By: ZL

LAB NO.	SAMPLE ID	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
ANALYSIS DATE:		07/09/09	07/09/09	07/09/09	07/09/09
H17757-1	AH#1 15' BGL	12.5	200	118	746
Quality Control		0.057	0.052	0.050	0.156
True Value QC		0.050	0.050	0.050	0.150
% Recovery		114	104	100	104
Relative Percent Difference		<1.0	2.0	2.0	<1.0
METHODS: BTEX.- SW-846 8021B					

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE,  
AND TOTAL XYLENES. Reported on wet weight.

Chemist

Date

H17757 BTEX SESI

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703 E. CLINTON, #102  
HOBBS, NM 88240  
FAX TO: (575) 393-4388

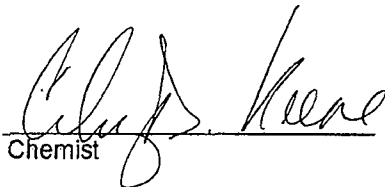
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Project Name: HOLLY T#2 RELEASE  
Project Location: EDDY CO., NM

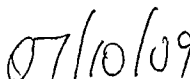
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Sampling Date: 06/25/09  
Sample Type: SOIL  
Sample Condition: INTACT @ 17.5°C  
Sample Received By: ML  
Analyzed By: AB

LAB NUMBER      SAMPLE ID      418.1  
TPH  
(mg/kg)

H17757-1	AH#1 15' BGL	26,500
Quality Control		329
True Value QC		300
% Recovery		110
Relative Percent Difference		3.7

METHOD: EPA 418.1. Reported on wet weight. Not NELAP accredited for 418.1 TPH.

  
Chemist

  
Date



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 1

[illegible]

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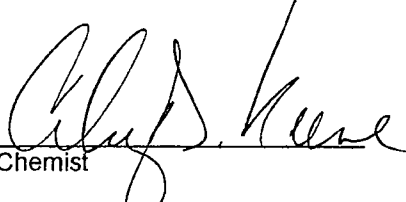
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Project Name: T #2 RELEASE  
Project Location: EDDY CO., NM

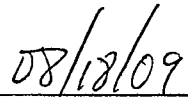
Analysis Date: 08/10/09  
Sampling Date: 08/07/09  
Sample Type: SOIL  
Sample Condition: COOL & INTACT @ 4°C  
Sample Received By: CK  
Analyzed By: AB

LAB NUMBER      SAMPLE ID      418.1  
TPH  
(mg/kg)

H17949-1	BH #1 20'	8,840
H17949-2	BH #1 25'	<100
H17949-3	BH #1 30'	<100
Quality Control		317
True Value QC		300
% Recovery		106
Relative Percent Difference		0.6

METHOD: EPA 418.1. Reported on wet weight. Not accredited for TPH 418.1

  
Chemist

  
Date

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ATTN: BOB ALLEN  
703 E. CLINTON, #102  
HOBBS, NM 88240  
FAX TO: (575) 393-4388

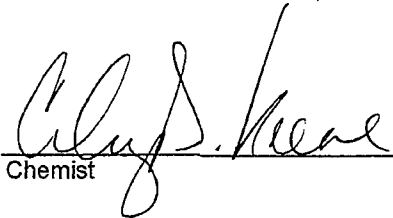
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Project Name: T #2 RELEASE  
Project Location: EDDY CO, NM

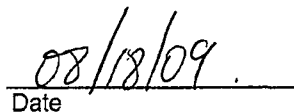
Sampling Date: 08/07/09  
Sample Type: SOIL  
Sample Condition: COOL & INTACT @ 4 °C  
Sample Received By: CK  
Analyzed By: ZL

LAB NO.	SAMPLE ID	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
ANALYSIS DATE:		08/11/09	08/11/09	08/11/09	08/11/09
H17949-1	BH #1 20'	4.60	23.3	7.22	52.5
H17949-2	BH #1 25'	0.641	5.17	2.04	15.0
H17949-3	BH #1 30'	0.183	0.519	0.356	2.05
Quality Control		0.048	0.050	0.051	0.154
True Value QC		0.050	0.050	0.050	0.150
% Recovery		96.0	100	102	103
Relative Percent Difference		<1.0	<1.0	2.1	1.4

METHODS: BTEX - SW-846 8021B

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE,  
AND TOTAL XYLENES. Reported on wet weight.

  
\_\_\_\_\_  
Chemist

  
\_\_\_\_\_  
Date

H17849 BTEX SESI

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<small>Minitest of Successor's signed out or of related to the performance of services hereunder or Call chain regional or otherwise such claim is based upon any of the above stated reasons or otherwise.</small>					
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Relinquished By:		Time:			Fax Result:
		1410			<input type="checkbox"/> No Add'l Fax #:
		Date:	Received By:		REMARKS:
		Time:			
Delivered By: (Circle One)		Temp:	Sample Condition	CHECKED BY:	
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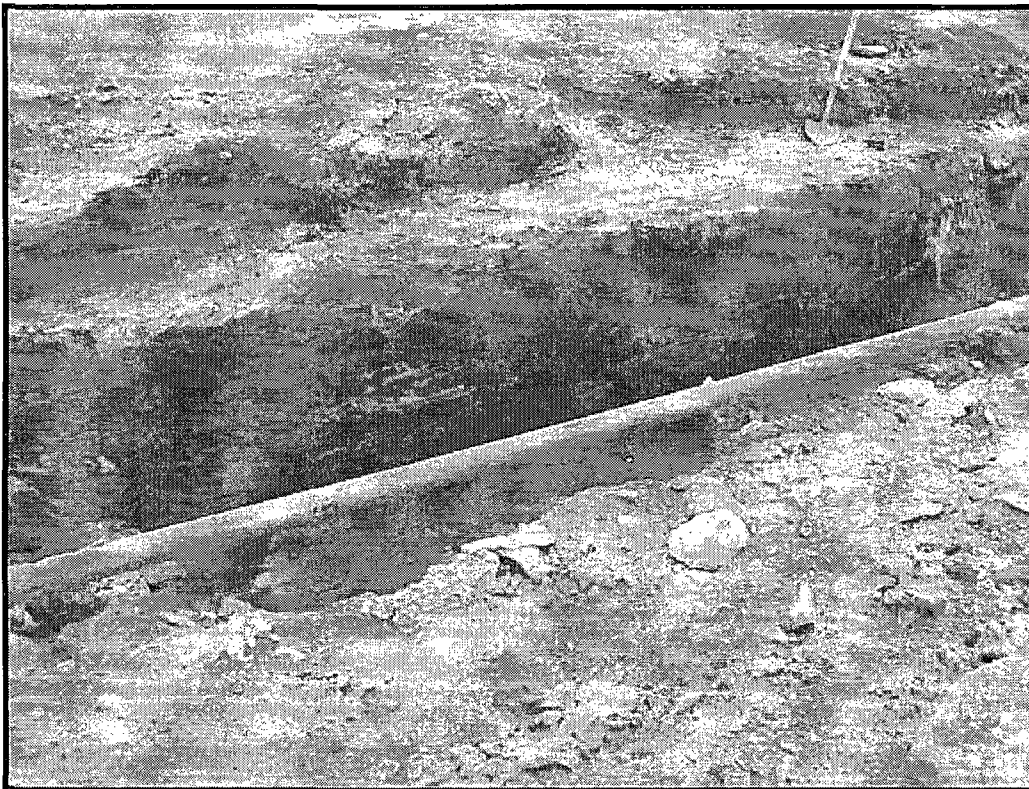
## **Appendix B**

### **Site Photos**

July 6, 2009

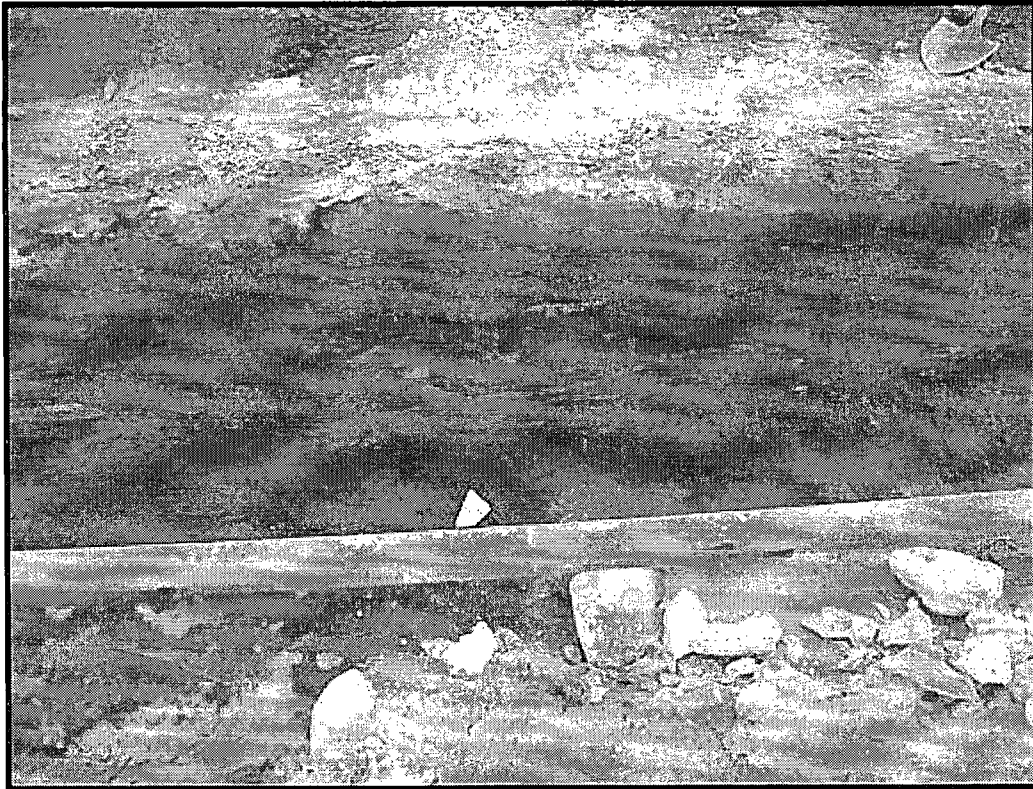


Release area facing east

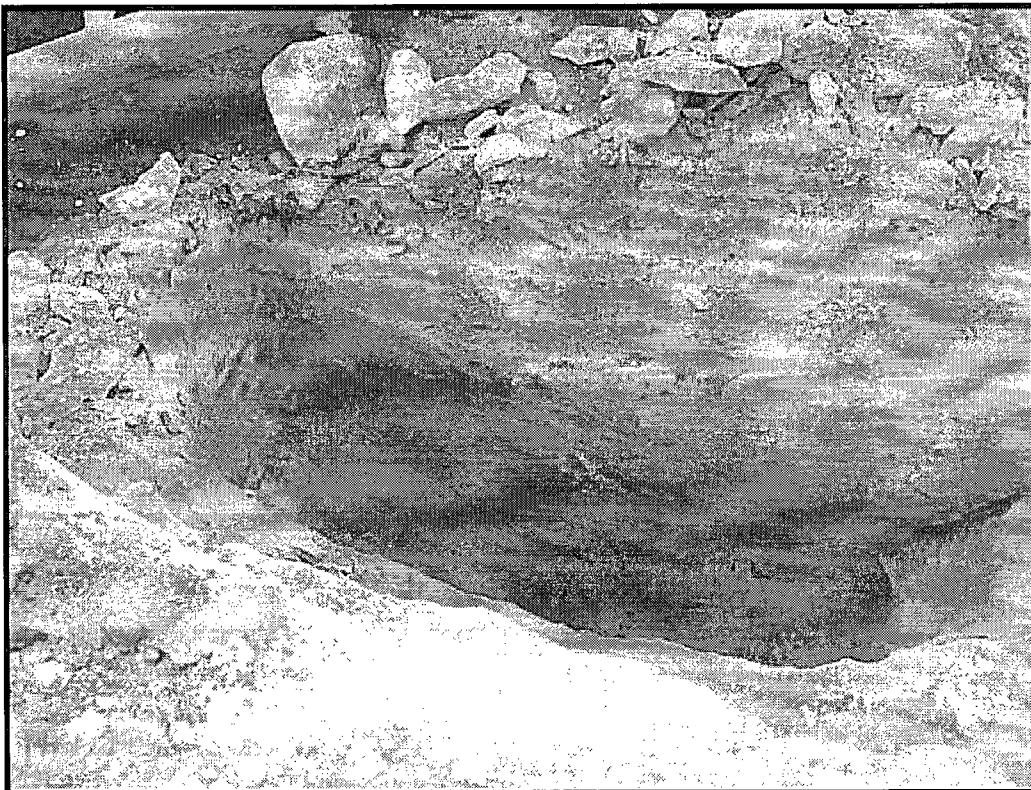


North wall of release area facing north

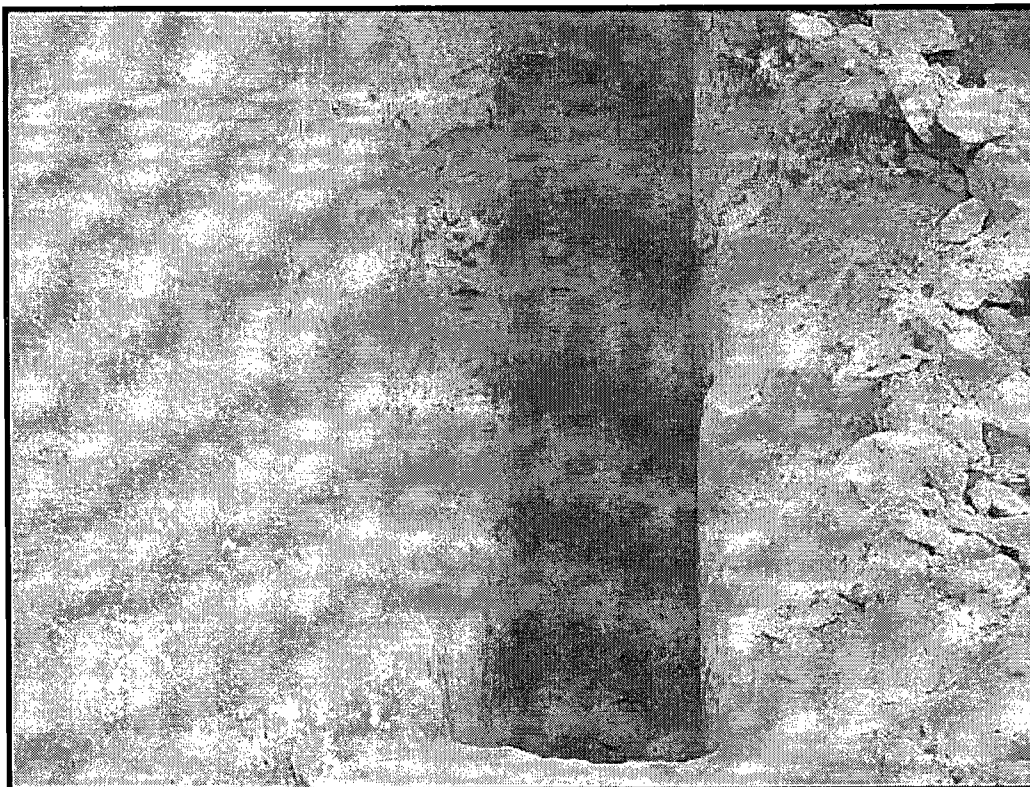




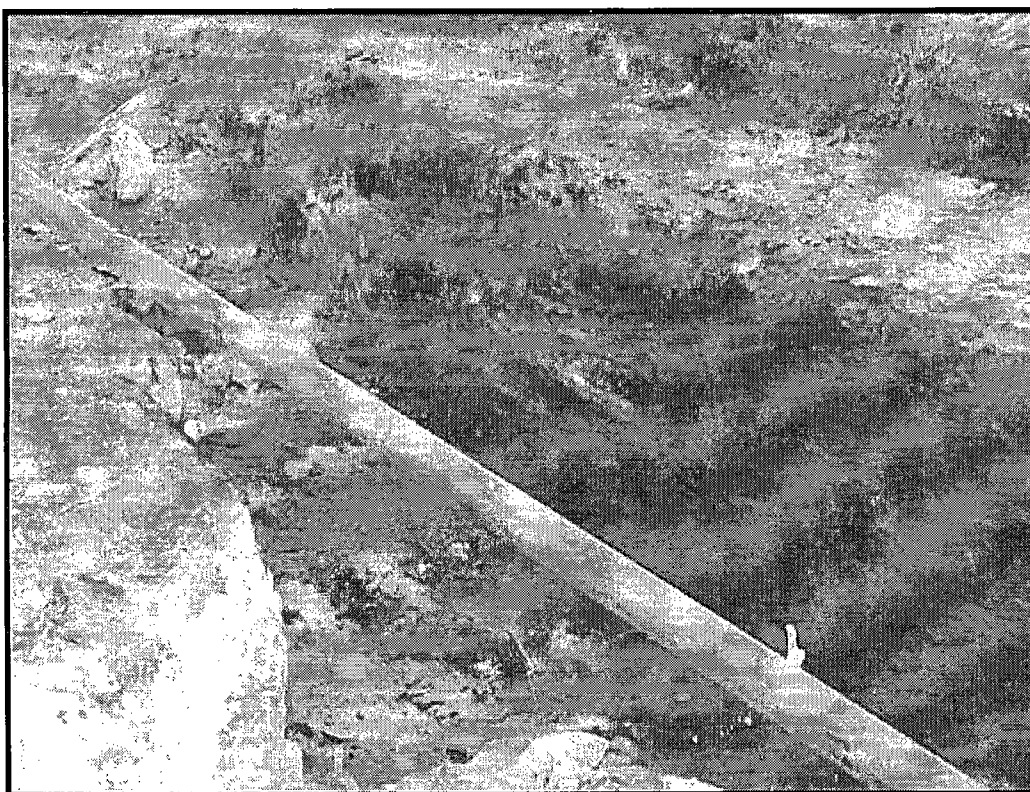
North wall of release area facing north



Test Trench at 9'bgs facing east

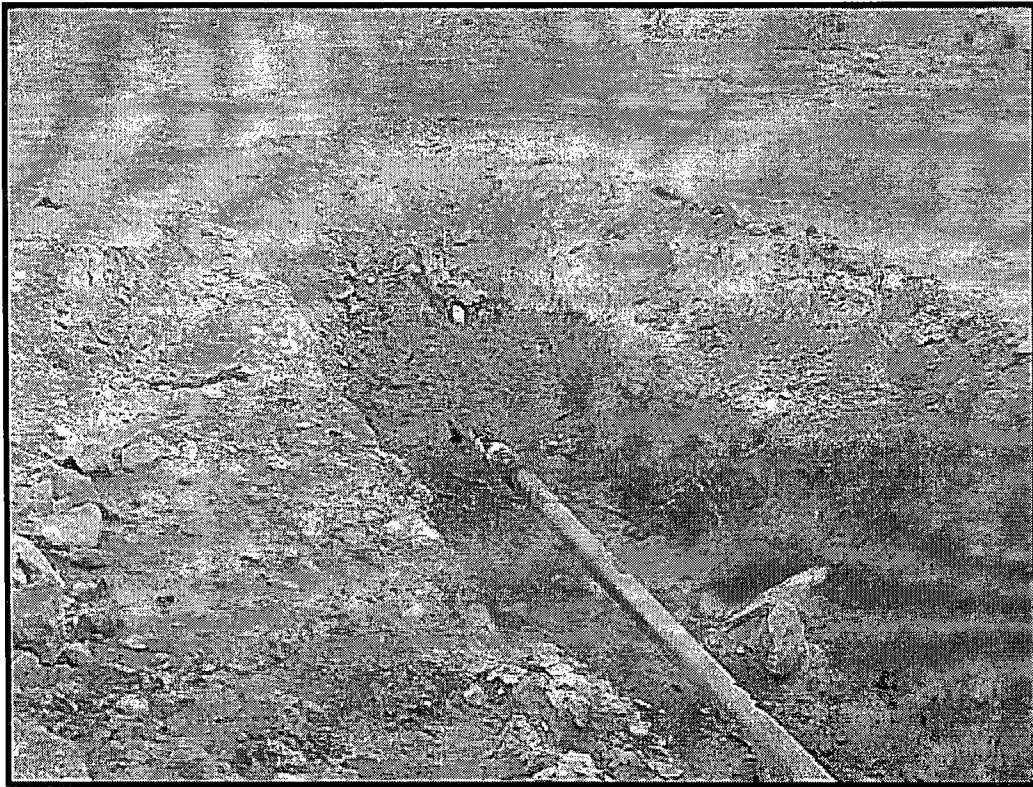


Test Trench 12 ½' bgs facing north



North wall of release area facing northwest

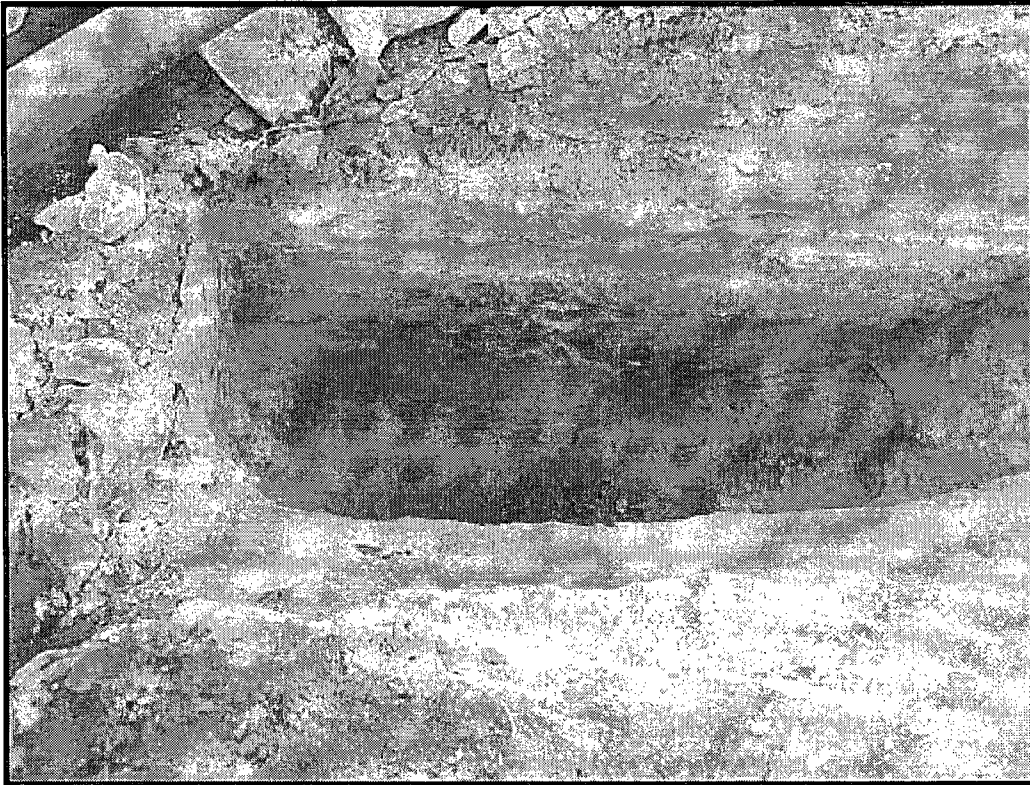




Release area facing west



Release area facing east

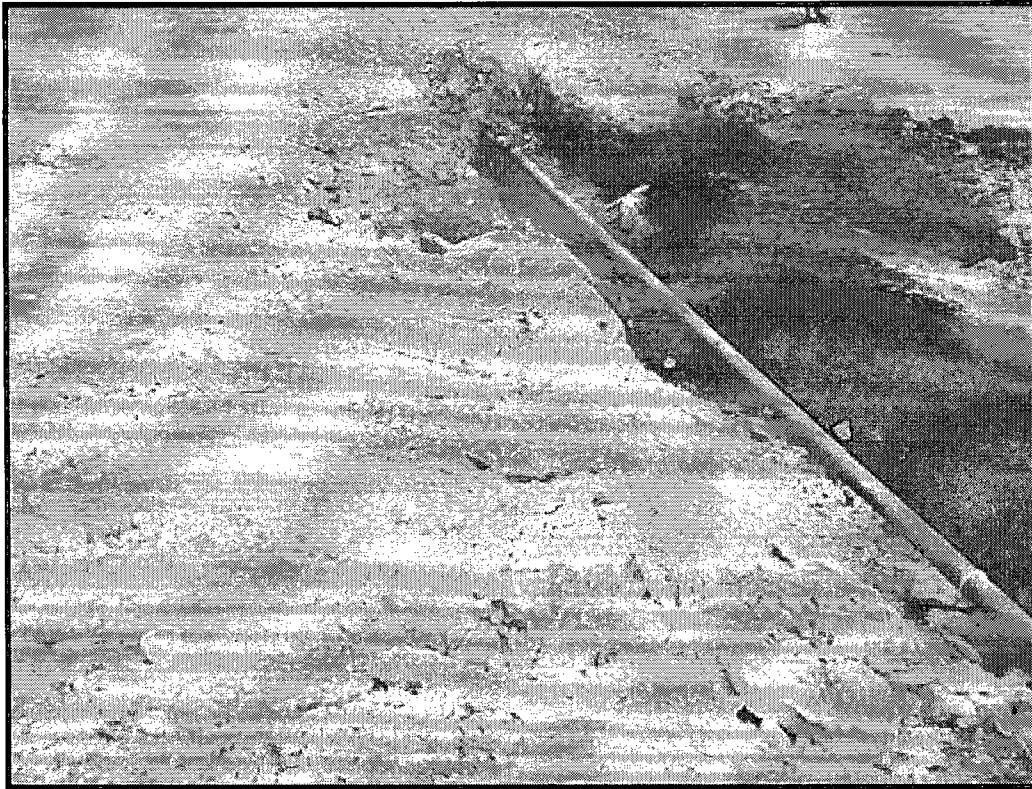


Test trench facing east at 12 ½' bgs



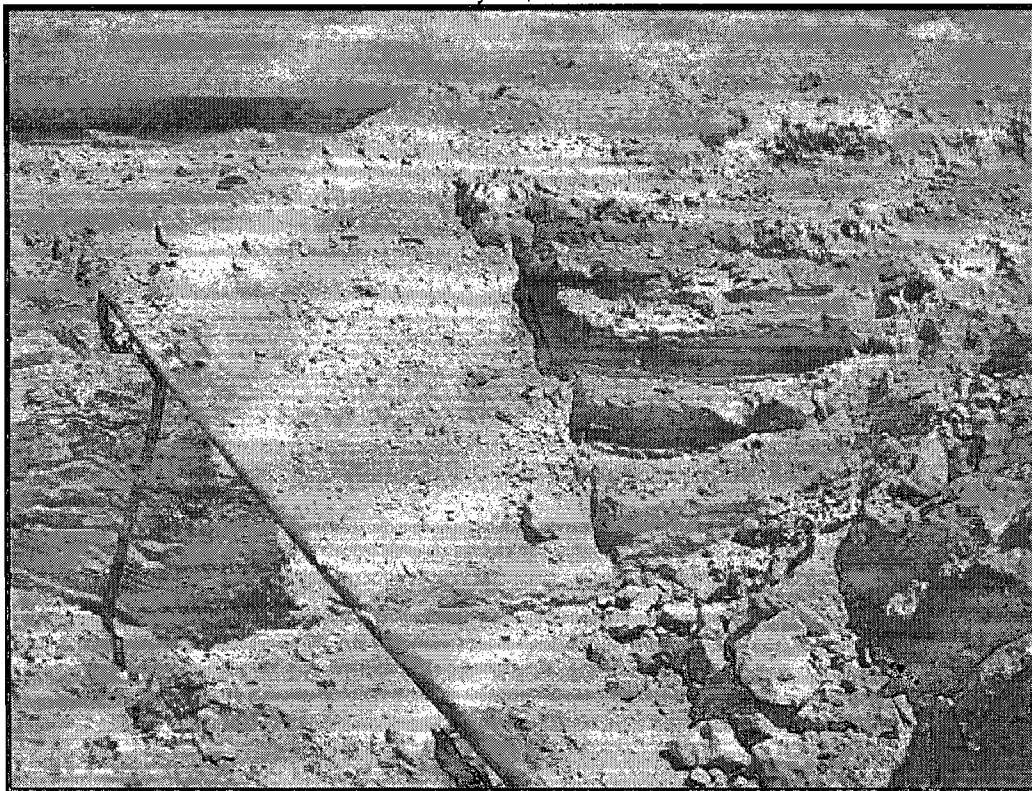
Backfilled test trench facing west





Backfilled test trench facing west

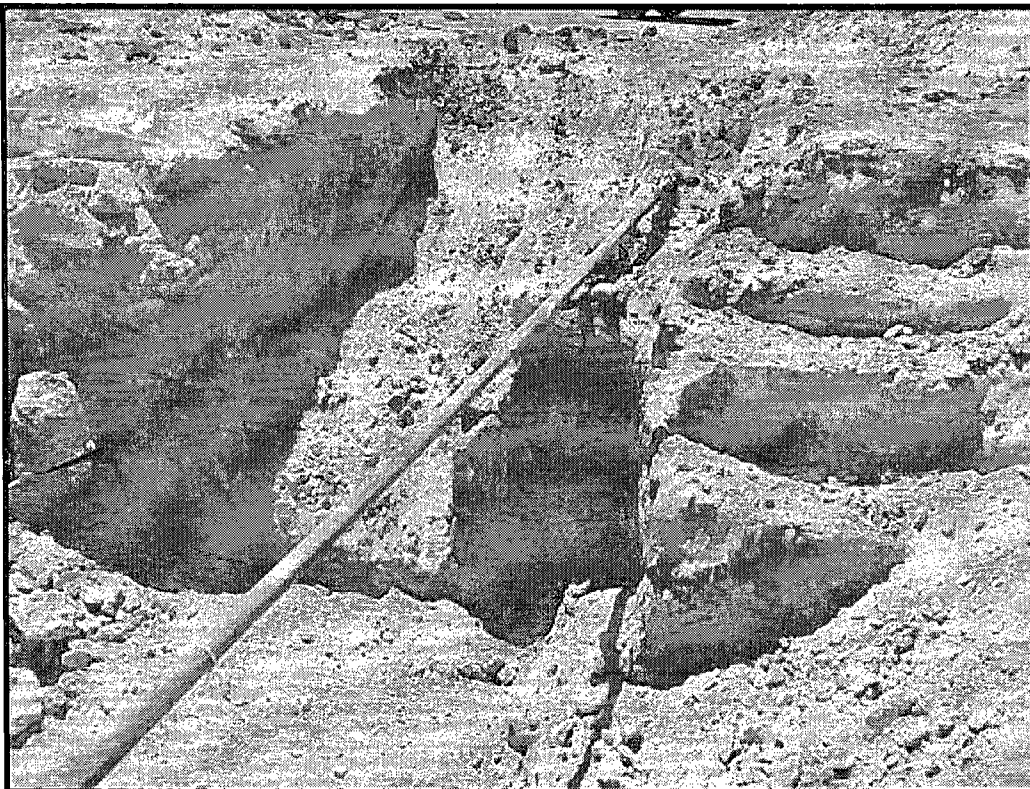
July 17, 2009



Excavated slope area facing east



Excavated bottom

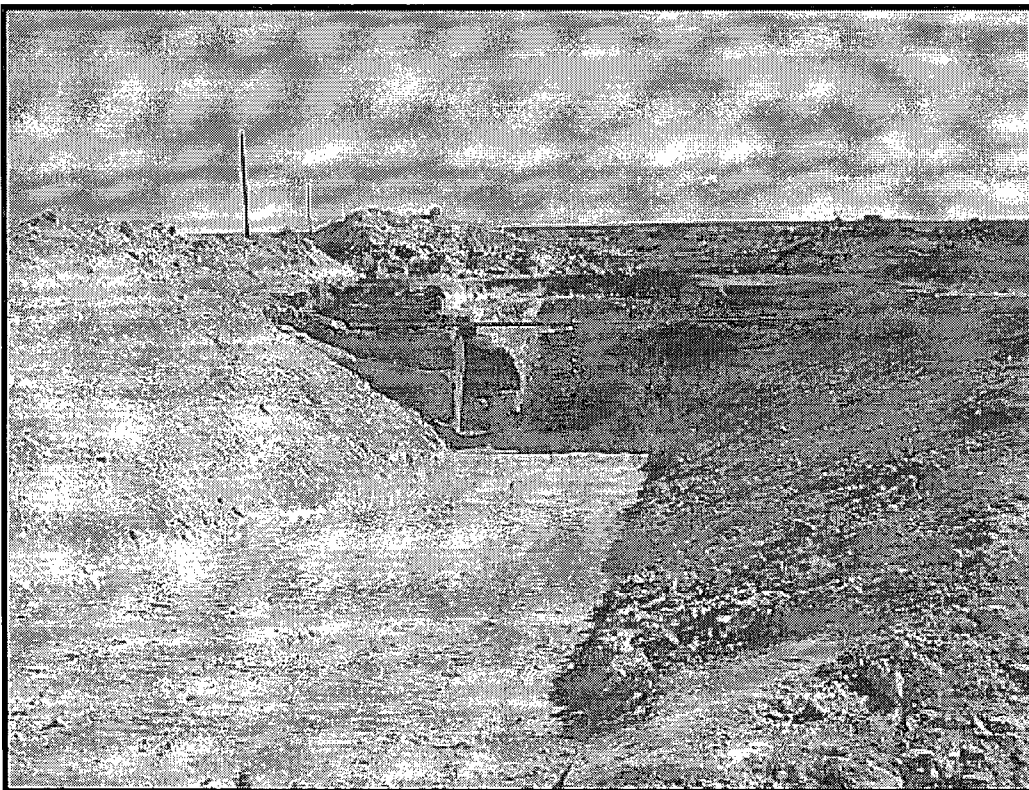


Excavated sloped area facing east





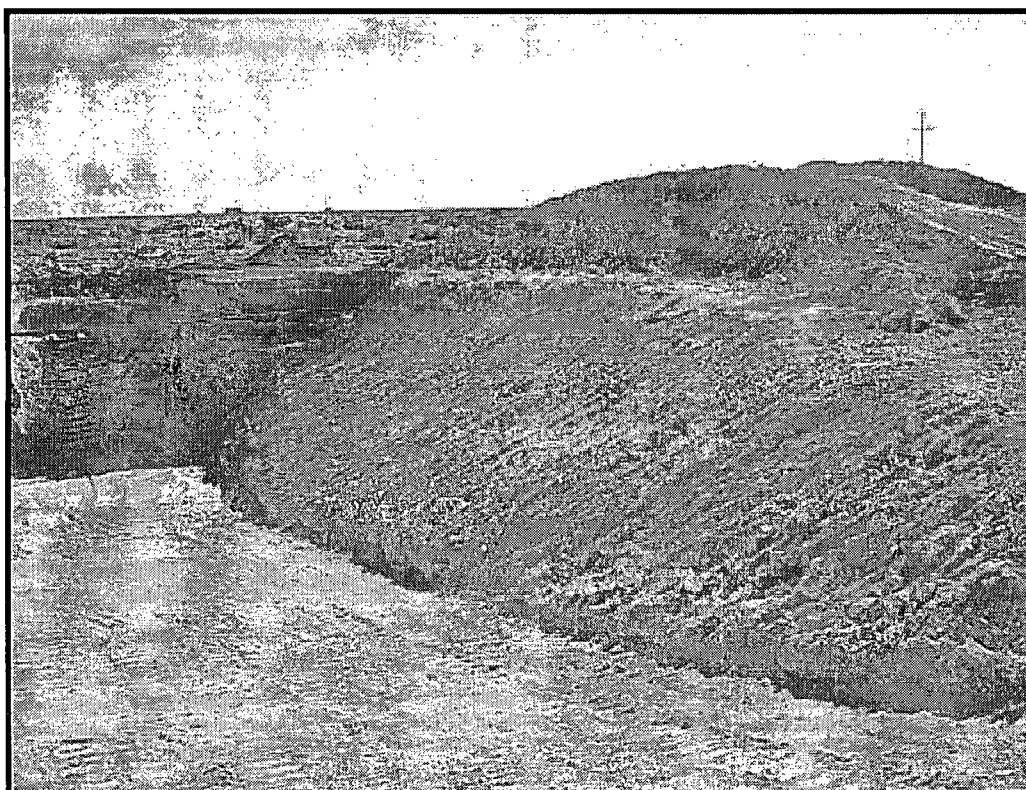
Excavated sloped area facing west



Excavated ramp area facing north



Excavated ramp with slope facing northwest

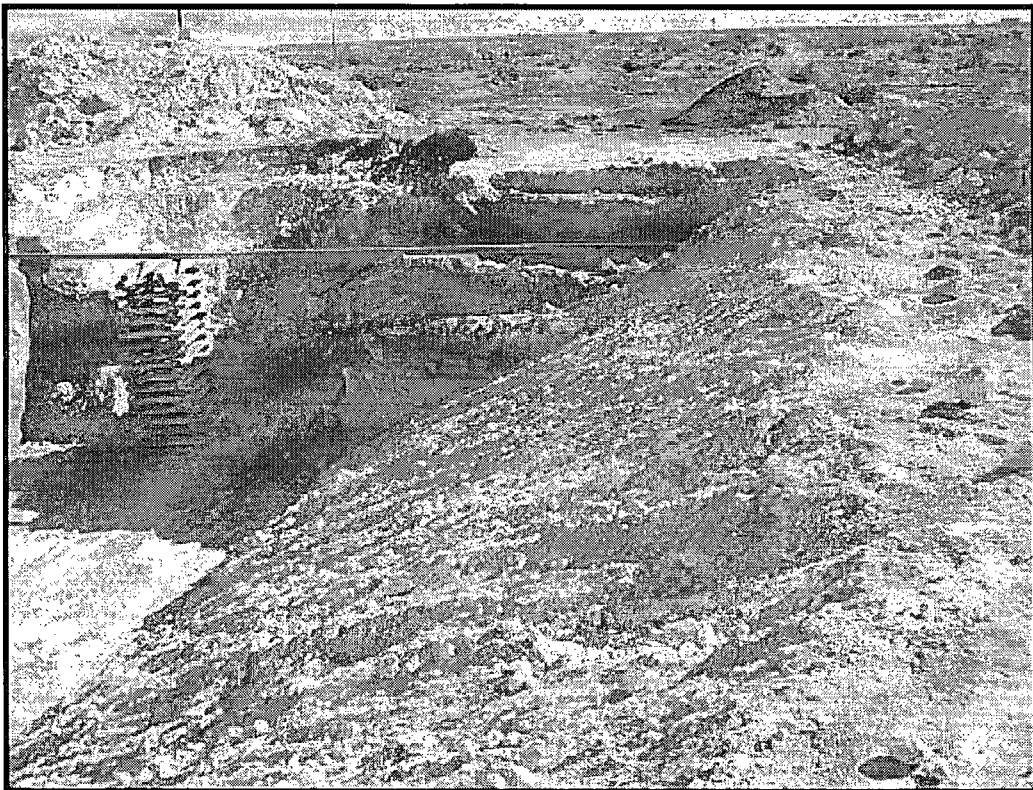


Excavated ramp area with slope facing northeast

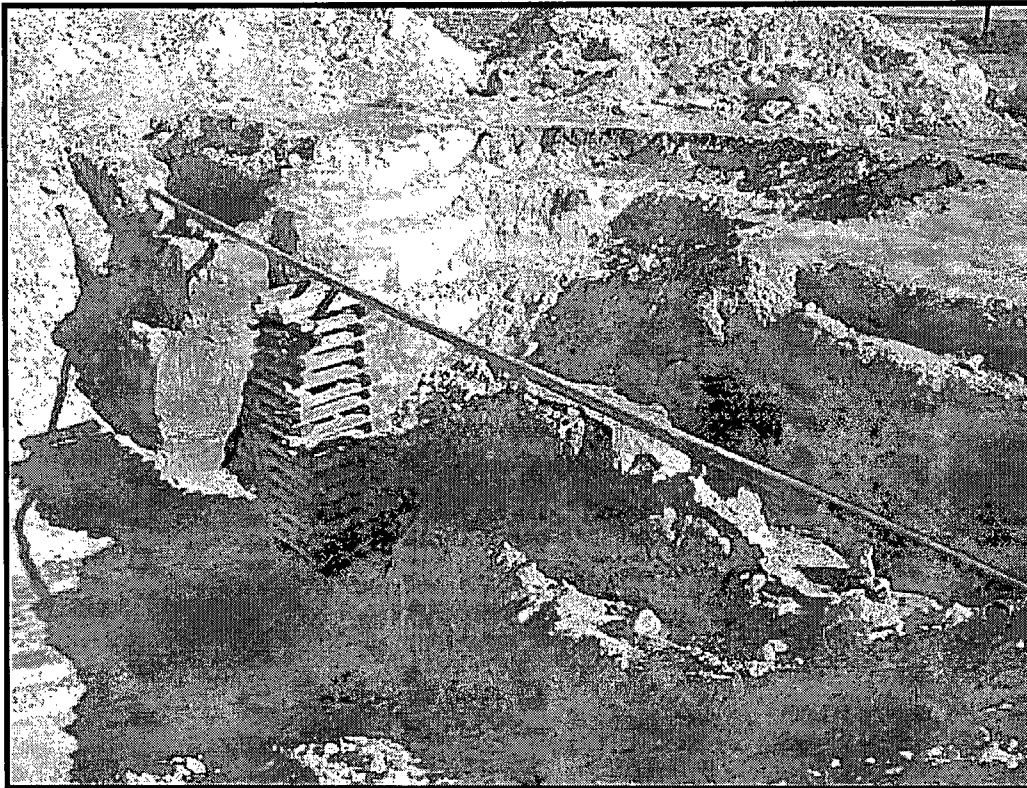




Excavated bottom facing north

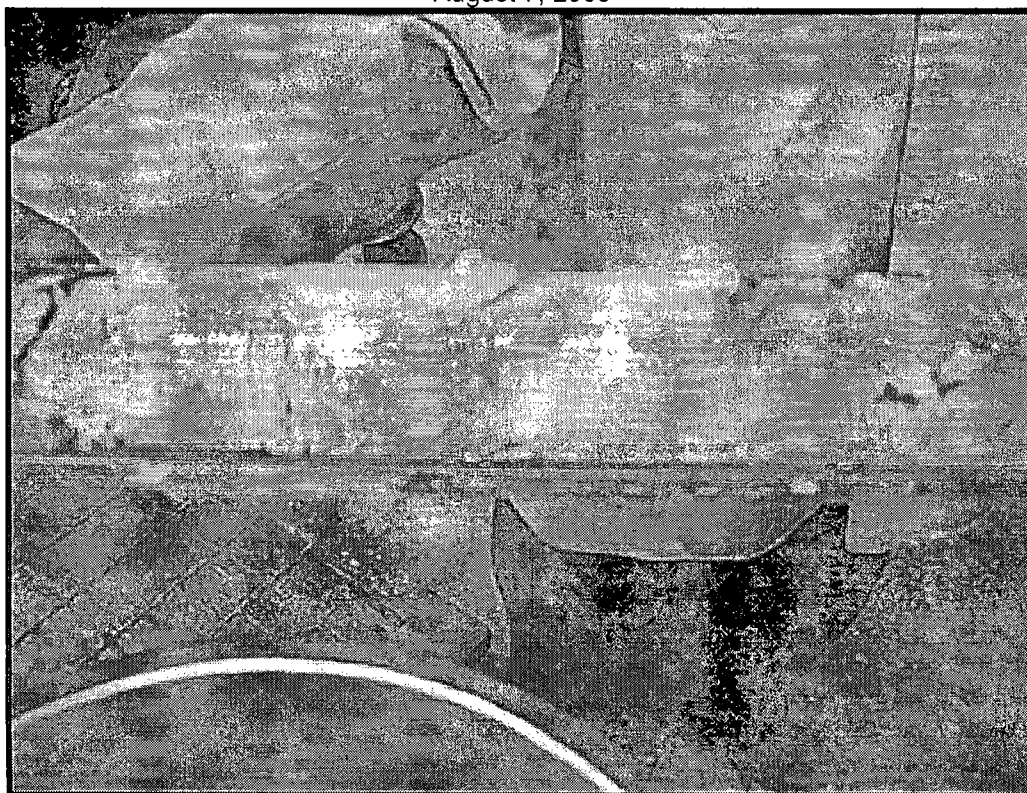


Excavated slope facing north



Excavated area facing west

August 7, 2009

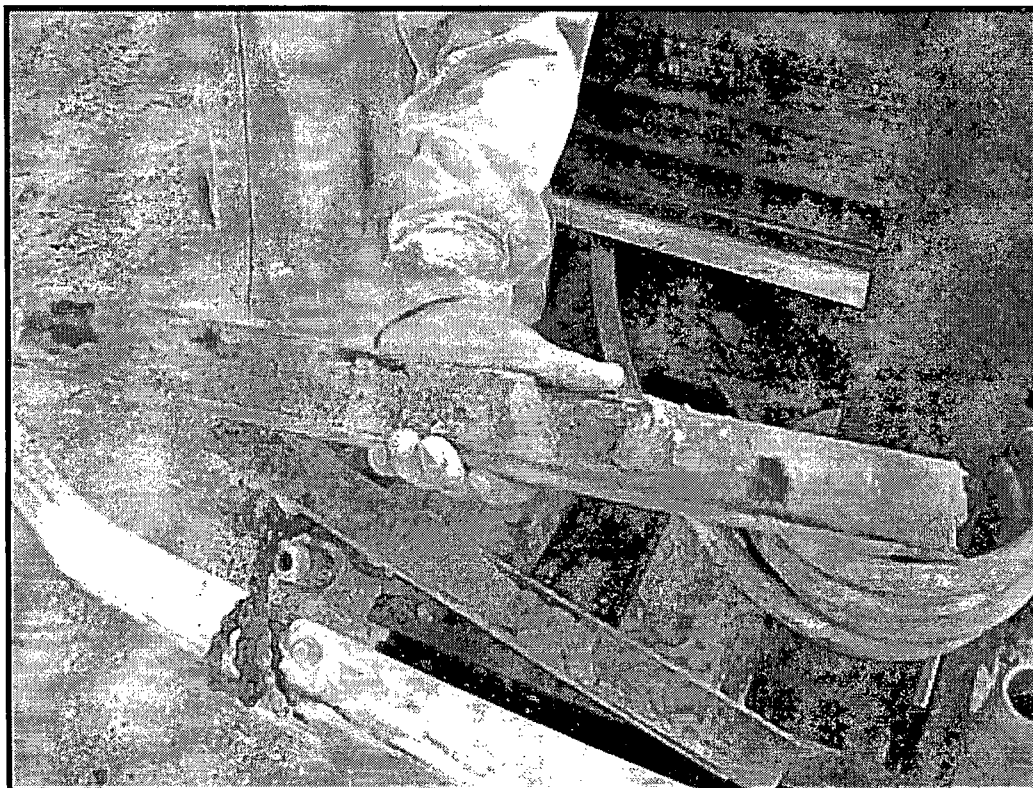


BH #1 20'





BH #1 25'



BH #1 30'