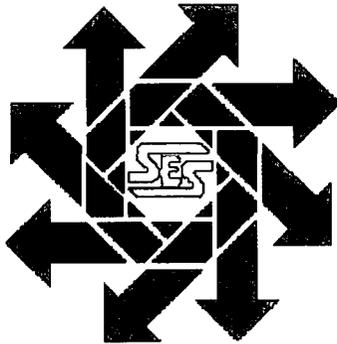


**Holly Energy Partners  
T #2 Release  
Section 15, Township 20S, Range 28E  
Eddy County, New Mexico**

**Closure Report**

**March 15, 2010**



***Prepared for:***

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

***Prepared by:***

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

## TABLE OF CONTENTS

I. COMPANY CONTACTS .....	1
II. BACKGROUND .....	1
III. CONTAMINANT AND SIZE OF AREA .....	1
IV. SURFACE AND GROUND WATER .....	1
V. SOILS.....	1
VI. CHARACTERIZATION .....	1
VII. WORK PERFORMED.....	2
VIII. CONCLUSION .....	3
IX. FIGURES & APPENDICES.....	3
Figure 1 – Vicinity Map .....	4
Figure 2 – Site Plan .....	5
Appendix A – Analytical Results .....	6
Appendix B –Site Photos .....	7

**I. Company Contacts**

Representative	Company	Telephone	E-mail
Dickie Townley	Holly Energy Partners	(575) 748-8949	Dickie.Townley@hollyenergy.com
Bob Allen	SESI	(575) 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.

**III. Contaminant and Size of Area**

The suspected contaminate is hydrocarbon fluid. A pipeline leak released an unknown volume of fluid. The size of the impacted area is approximately 1,103 sq. ft.

**IV. 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'.

**V. Soils**

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

**VI. Characterization**

The target cleanup levels are reached by the application of the "Guidelines for Remediation of Leaks, Spills and Releases New Mexico Oil Conservation Division (NMOCD) – August 13, 1993 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:

<b>Depth to Ground Water:</b>			
(Vertical distance from contaminants to seasonal high water elevation of groundwater)	Less than 50 feet	20 points	X
	50 feet to 99 feet	10 points	
	>100 feet	0 points	
<b>Wellhead Protection Area:</b>			
(Less than 200 feet from a private domestic water source; or less than 1000 feet from all other water sources)	Yes	20 points	
	No	0 points	X
<b>Distance to Surface Water:</b>			
(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Less than 200 feet	20 points	
	200 feet to 1000 feet	10 points	
	>1000 feet	0 points	X
<b>RANKING SCORE (TOTAL POINTS)</b>			<b>20</b>

## VII. 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:

Sample ID	TPH (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl Benzene (mg/kg)	Xylenes (mg/kg)
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.

For the period of February 22, 2010 and March 10, 2010 SESI was onsite with D&D Construction to begin removing all of the hydrocarbon impacted soils.

The affected area was excavated to a depth of 29' bgl at the deepest point to reach the full vertical extent of the hydrocarbon impacted soils. The excavated soils were transported to CRI, and NMOCD approved facility for disposal. Confirmation samples were collected from the excavated area and transported under chain of custody to Cardinal Laboratories of Hobbs, New Mexico for analysis. The samples were 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)
East Wall 10' bgl	<100	<0.050	<0.050	<0.050	<0.300
East Wall 20' bgl	<100	<0.100	<0.100	<0.100	<0.300
West Wall 10' bgl	<100	<0.050	<0.050	<0.050	<0.300
West Wall 20' bgl	<100	<0.050	<0.050	<0.050	<0.300
North Wall	<100	<0.050	<0.050	<0.050	<0.300
Floor 29' bgl	<100	<0.050	0.182	<0.050	<0.300

The entire area was then backfilled with 3,400 yards of like soils and contoured to natural grade.

### VIII. Conclusion

Remedial actions at this site have all been performed with the approval of, and in accordance with all NMOCD requirements.

As a result, we respectfully submit this closure report for your consideration and approval.

### IX. Figures & Appendices

Figure 1 – Vicinity Map

Figure 2 – Site Plan

Appendix A – Analytical Results

Appendix B – Site Photos

# **Figure 1 Vicinity Map**

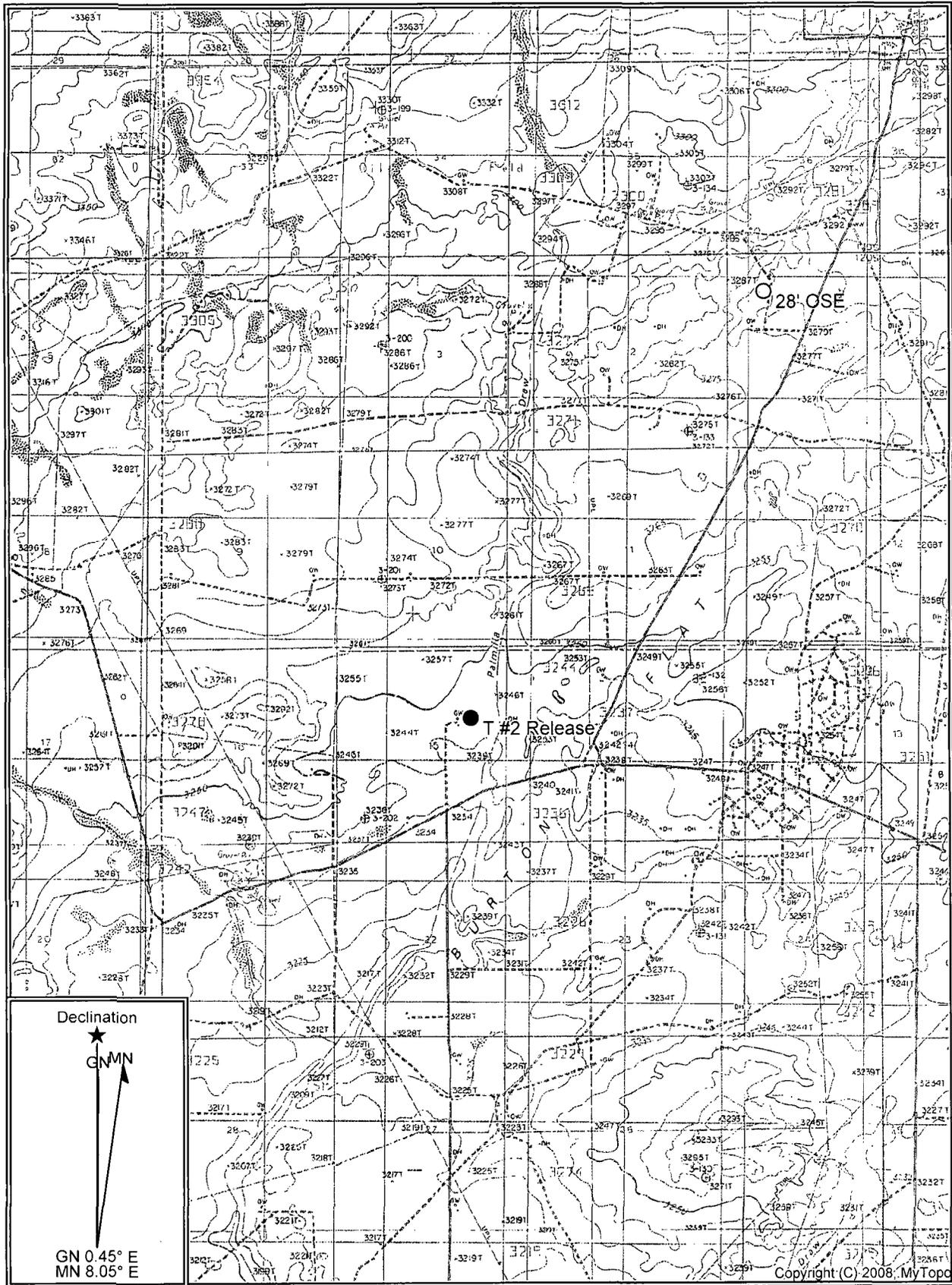
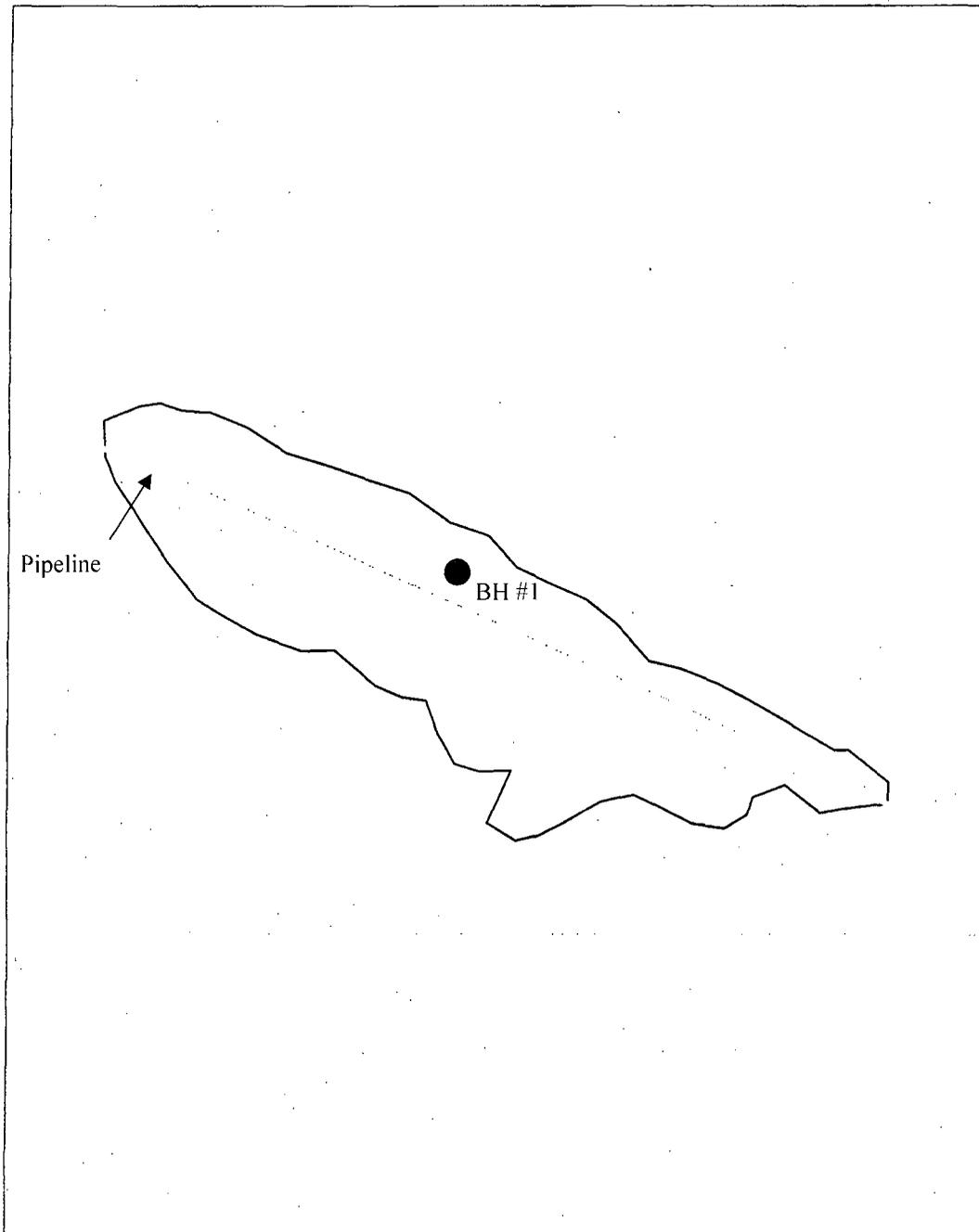


Figure 1 Vicinity Map: T#2

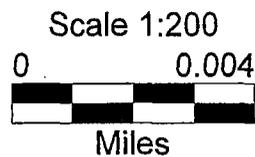


Figure 1 Vicinity Map: T#2

## **Figure 2 Site Plan**



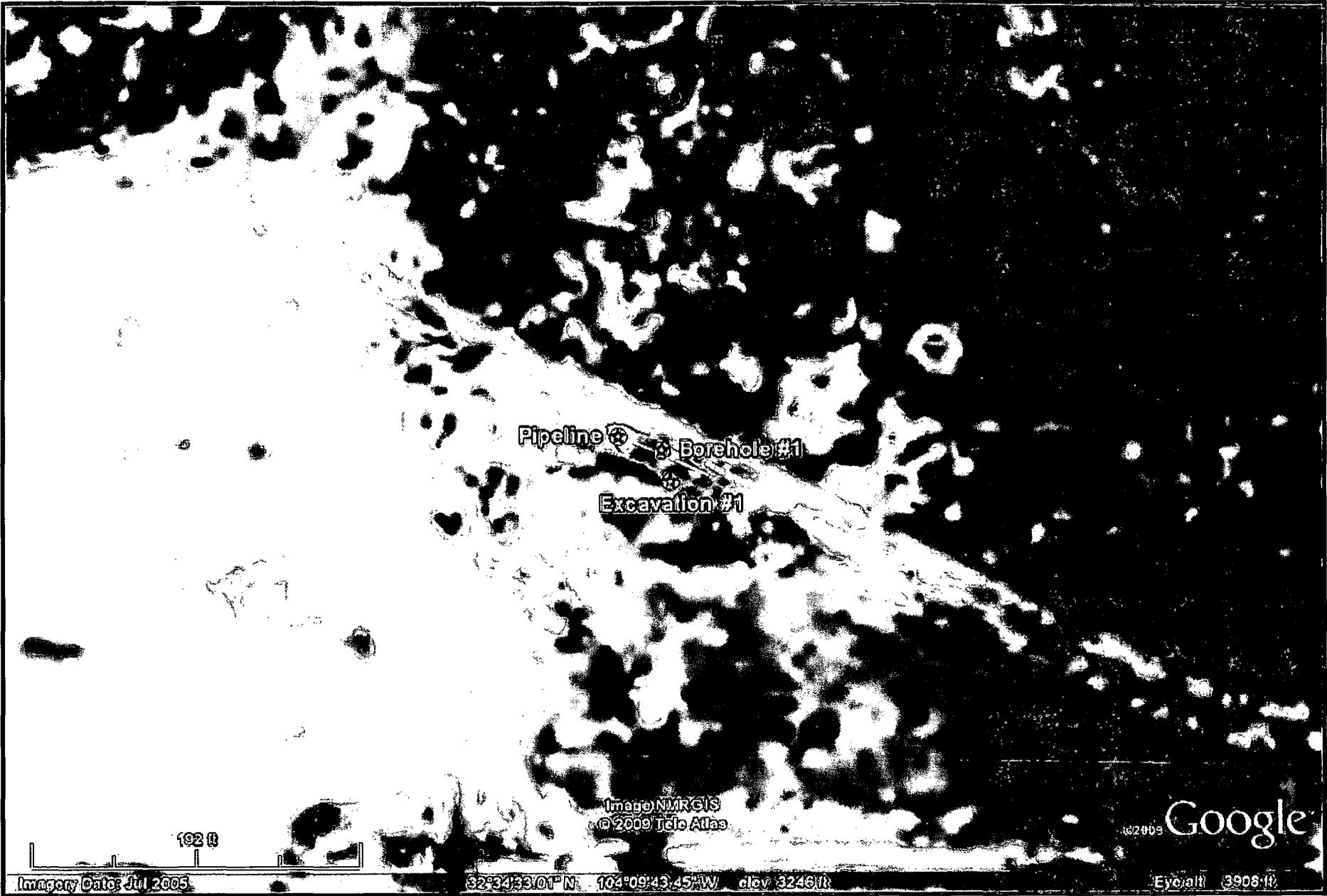
Lat/Long  
WGS 1984



site map.cor  
9/2/2009

GPS Pathfinder® Office





Pipeline

Borehole #1

Excavation #1

192 ft

Image NMRGIS  
© 2009 Tolo Atlas

Google

2009

Imagery Date: Jul 2005

52°34'33.01" N, 104°09'43.45" W, elev 3246 ft

Eye alt 3908 ft

# **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

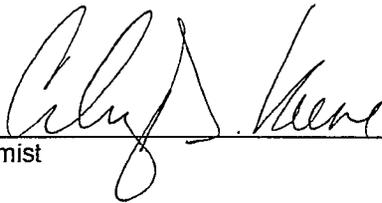
Receiving Date: 07/06/09  
 Reporting Date: 07/10/09  
 Project Number: HOL-09-012  
 Project Name: HOLLY T#2 RELEASE  
 Project Location: EDDY CO., NM

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

07/10/09  
 \_\_\_\_\_  
 Date

H17757 BTEX SESI

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



# ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

(575) 393-2326 Fax (575) 393-2476

Page \_\_\_ of \_\_\_

Company Name: <b>SESE</b>	<b>BILL TO</b>	<b>ANALYSIS REQUEST</b>											
Project Manager: <b>Bob Allen</b>	P.O. #:												
Address: <b>703 E Clinton</b>	Company:												
City: <b>Hobbs</b> State: <b>NM</b> Zip: <b>88240</b>	Attn:												
Phone #: <b>575-397-0510</b> Fax #:	Address: <b>SAME</b>												
Project #: <b>1401-09-012</b> Project Owner: <b>Holly</b>	City:												
Project Name: <b>T#2 Release</b>	State: Zip:												
Project Location: <b>Eddy Co, NM</b>	Phone #:												
Sampler Name: <b>Tracie Kincaid</b>	Fax #:												

FOR LAB USE ONLY		(G/RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.		SAMPLING		DATE	TIME
Lab I.D.	Sample I.D.			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE	ICE / COOL	OTHER:			
H17949															
1	BH#1 25' 20'	6	1			✓				✓			8/7/9	0805	✓
2	BH#1 25'	6	1			✓				✓			8/7/9	0815	✓
3	BH#1 30'	6	1			✓				✓			8/7/9	0820	✓

TPA 418-1  
 JSTET

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Sampler Relinquished:	Date: <b>8/7/9</b>	Received By:	Phone Result: <input type="checkbox"/> No Add'l Phone #:
	Time: <b>1410</b>		Fax Result: <input type="checkbox"/> No Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:
	Time:		
Delivered By: (Circle One)	Temp: <b>40°C</b>	Sample Condition	CHECKED BY: (Initials)
Sampler - UPS - Bus - Other:		<input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No	

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.





# CARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240  
(915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: SAFETY & ENVIRONMENTAL SOLUTIONS				BILL TO				ANALYSIS REQUEST													
Project Manager:				P.O. #:																	
Address: 703 E. CLINTON, #102				Company: SAME																	
City: HOBBS		State: NM		Zip: 88240		Attn:															
Phone #: (505) 397-0510		Fax #: (505) 393-4388		Address:																	
Project #: Hal-09-01R		Project Owner:		City:																	
Project Name: Holly T#2 Release				State:				Zip:													
Project Location: Eddy Co, NM				Phone #:																	
Sampler Name: Brian Cuellar				Fax #:																	
FOR LAB USE ONLY																					
Lab I.D.		Sample I.D.		G	6	-	MATRIX				PRESERV.		SAMPLING								
							GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE/COOL	OTHER:	DATE	TIME				
H17757-1	AH #1	15' bgl							✓					✓		6/25/9	1130	✓	✓		

TPH 418.1  
13 TEX

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claims are based upon any of the above stated reasons or otherwise.

Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collection, including attorney's fees.

Sampler Relinquished:		Date: 7/6/05		Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	
		Time: 1605		ISAAC Kincaid		Fax Result: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Relinquished By:		Date: 7/6/9		Received By: (Lab Staff)		REMARKS:	
		Time: 1610		Misty Lubert			
Delivered By: (Circle One)		Sample Condition		Checked By:			
Sampler - UPS - Bus - Other:		Temp. °C Intact?		By: (Initials)			
		7.5°C <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		MAB			

† Cardinal cannot accept verbal changes. Please fax written changes to (915) 673-7020.



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: 08/07/09  
Reporting Date: 08/11/09  
Project Owner: HOLLY (HOL-09-012)  
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





February 23, 2010

Bob Allen  
Safety & Environmental Solutions, Inc.  
703 East Clinton, #102  
Hobbs, NM 88240

Re: Holly T-2 Release (HOL-09-012)

Enclosed are the results of analyses for sample number H19323, received by the laboratory on 02/22/10 at 4:05 pm.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.2	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 4 (includes Chain of Custody)

Sincerely,

Celey D. Keene  
Laboratory Director





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

Receiving Date: 02/22/10  
 Reporting Date: 02/23/10  
 Project Owner: HOLLY (HOL-09-012)  
 Project Name: HOLLY T-2 RELEASE  
 Project Location: EDDY CO., NM

Sampling Date: 02/22/10  
 Sample Type: SOIL  
 Sample Condition: COOL & INTACT @ -1 °C  
 Sample Received By: JH  
 Analyzed By: ZL

LAB NO.	SAMPLE ID	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
ANALYSIS DATE:		02/23/10	02/23/10	02/23/10	02/23/10
H19323-1	EAST WALL 20' BGL	<0.100	<0.100	<0.100	<0.300
H19323-2	EAST WALL 10' BGL	<0.050	<0.050	<0.050	<0.300
H19323-3	WEST WALL 20' BGL	<0.050	<0.050	<0.050	<0.300
H19323-4	WEST WALL 10' BGL	<0.050	<0.050	<0.050	<0.300
H19323-5	NORTH WALL	<0.050	<0.050	<0.050	<0.300
Quality Control		0.058	0.058	0.060	0.172
True Value QC		0.050	0.050	0.050	0.150
% Recovery		116.0	116.0	120	115
Relative Percent Difference		<1.0	<1.0	<1.0	<1.0

METHODS: BTEX - SW-846 8021B

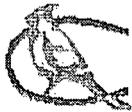
TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES. Reported on wet weight.

Lab Director

Date

H19323 BTEX SESI

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**CARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240  
 (505) 393-2326 Fax (505) 393-2476

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

Company Name: <b>Safety &amp; Environmental Solutions, Inc.</b>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>											
Project Manager: <b>Bob Allen</b>		P.O. #:													
Address: <b>703 East Clinton</b>		Company: <b>Same</b>													
City: <b>Hobbs</b> State: <b>NM</b> Zip: <b>88240</b>		Attn:													
Phone #: <b>575-397-0510</b> Fax #: <b>575-393-4388</b>		Address:													
Project #: <b>HOL-09-012</b> Project Owner: <b>Holly</b>		City:													
Project Name: <b>Holly T-2 Release</b>		State: Zip:													
Project Location: <b>Edgy Co</b>		Phone #:													
Sampler Name: <b>Brian Cuello</b>		Fax #:													

Lab I.D.	Sample I.D.	(C)RAB OR (C)OMP.	# CONTAINERS	MATRIX							PRESERV.		SAMPLING		DATE	TIME	TPH	418	BTEX
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER							
HM3831	East Wall 20' bgl	G	1			X					X			2/22/10	0818	X	X		
-2	East Wall 10' bgl	G	1			X					X			2/22/10	1049	X	X		
-3	West Wall 20' bgl	G	1			X					X			2/22/10	1126	X	X		
-4	West Wall 10' bgl	G	1			X					X			2/22/10	1142	X	X		
-5	North Wall	C	1			X					X			2/22/10	1321	X	X		

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Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 2 1/2% per annum from the original date of invoice, and all costs of collections, including attorney's fees.

Sampler Relinquished:		Date: <u>2/22/10</u>	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:		Time: <u>1:00 P</u>	Date: <u>2/22/10</u>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One)		Time: <u>4:05</u>	Received By:	REMARKS: <u>RUSH</u>	
Sampler - UPS - Bus - Other: <u>-10c</u>		Temp. <u>-10c</u>	Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		
			Checked By:		

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.

#26



**ARDINAL  
LABORATORIES**

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

---

March 12, 2010

Bob Allen  
Safety & Environmental Solutions, Inc.  
703 East Clinton, #102  
Hobbs, NM 88240

Re: T-2 Release (HOL-09-012)

Enclosed are the results of analyses for sample number H19416, received by the laboratory on 03/10/10 at 3:55 pm.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.2	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 4 (includes Chain of Custody)

Sincerely,

Celey D. Keene  
Laboratory Director

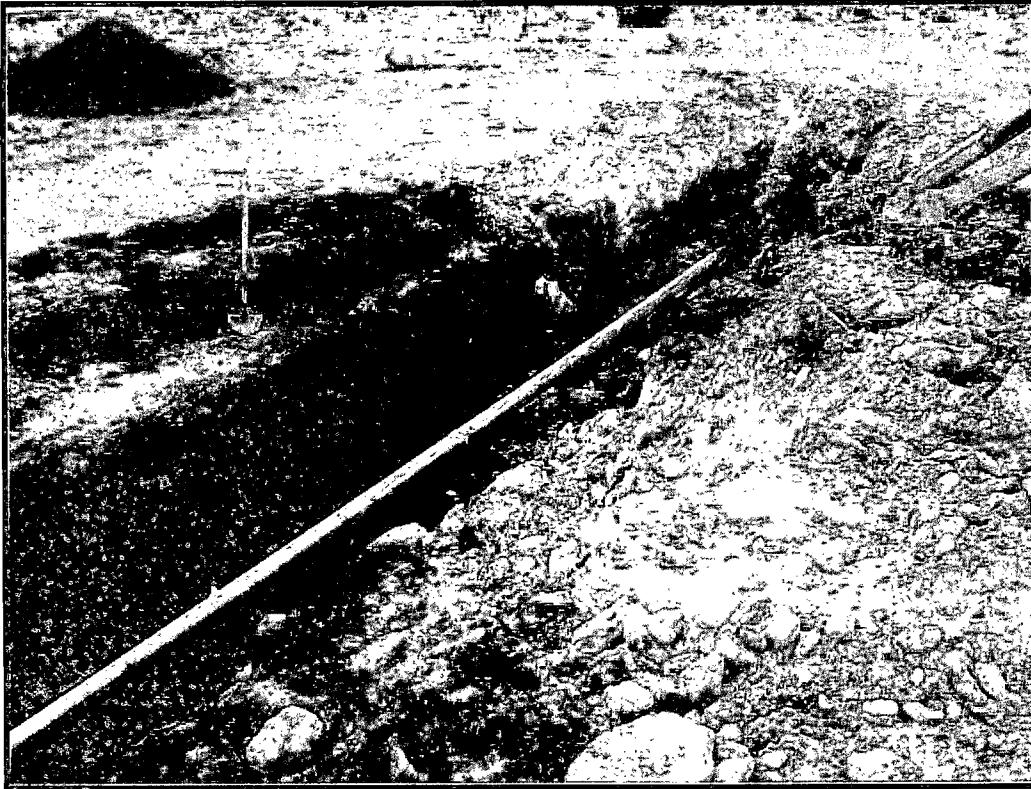




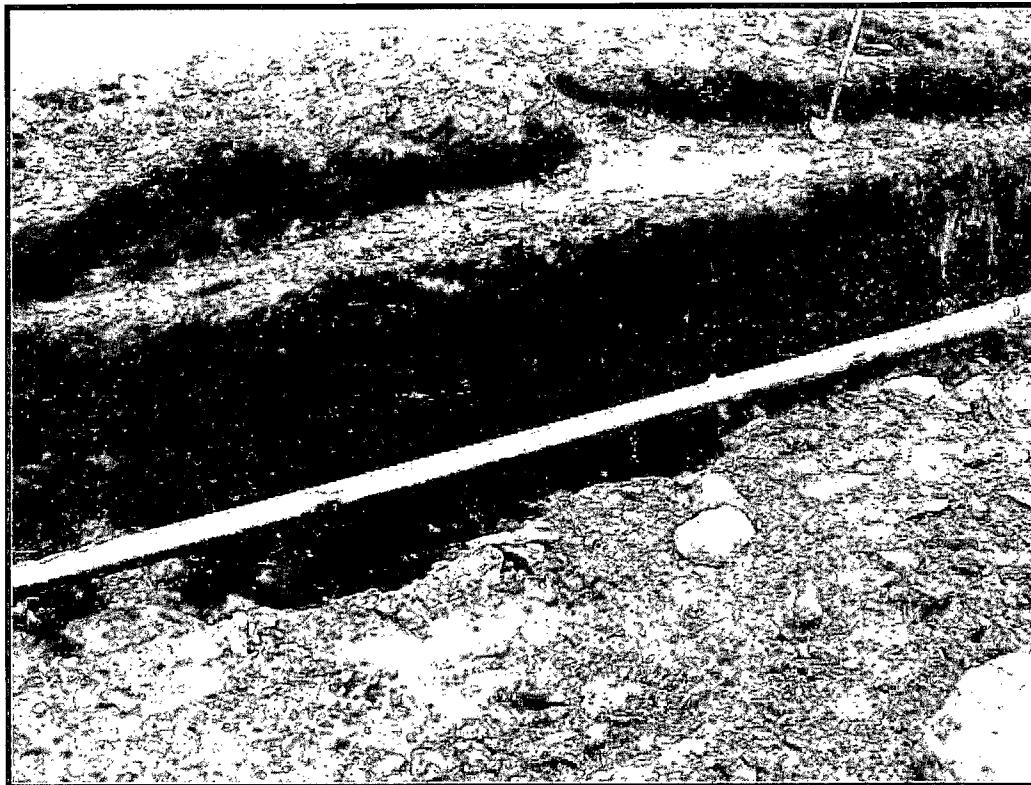


**Appendix B**  
**Site Photos**

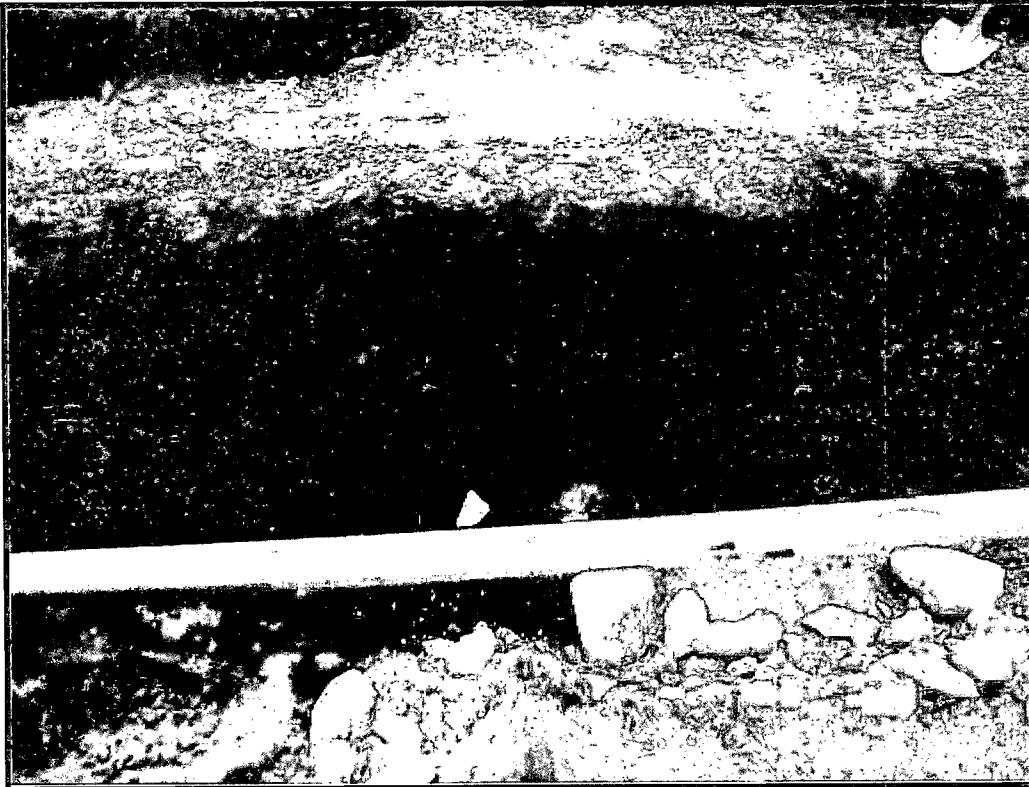
July 6, 2009



Release area facing east



North wall of release area facing north



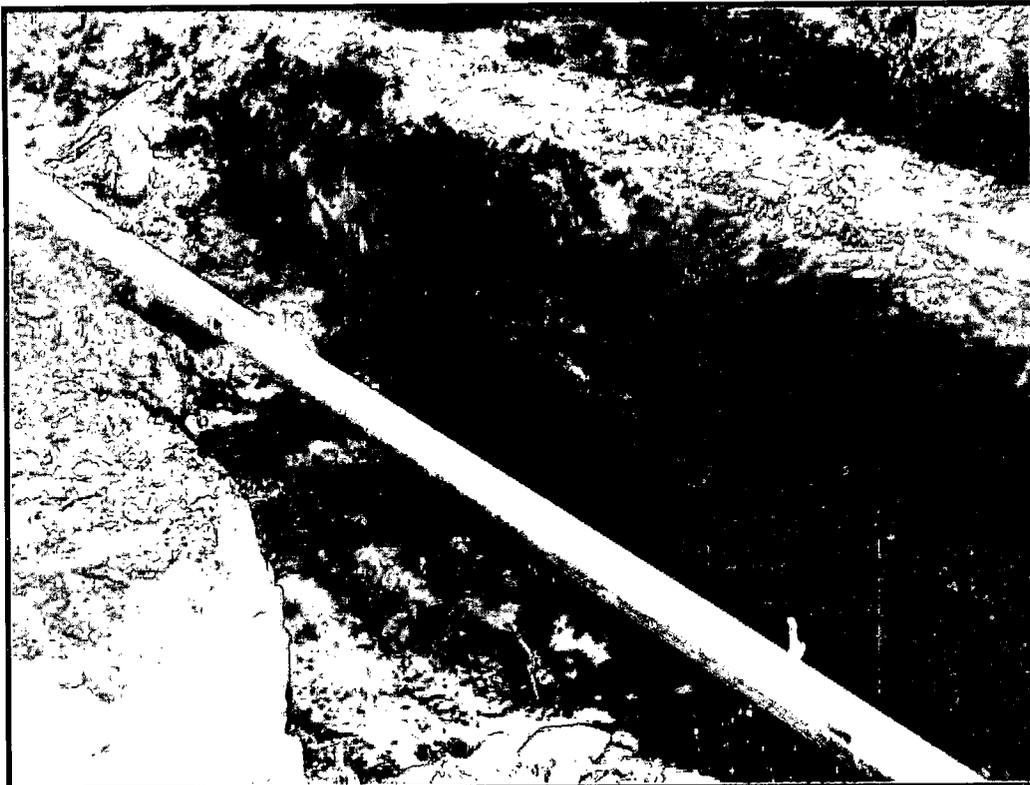
North wall of release area facing north



Test Trench at 9'bgs facing east



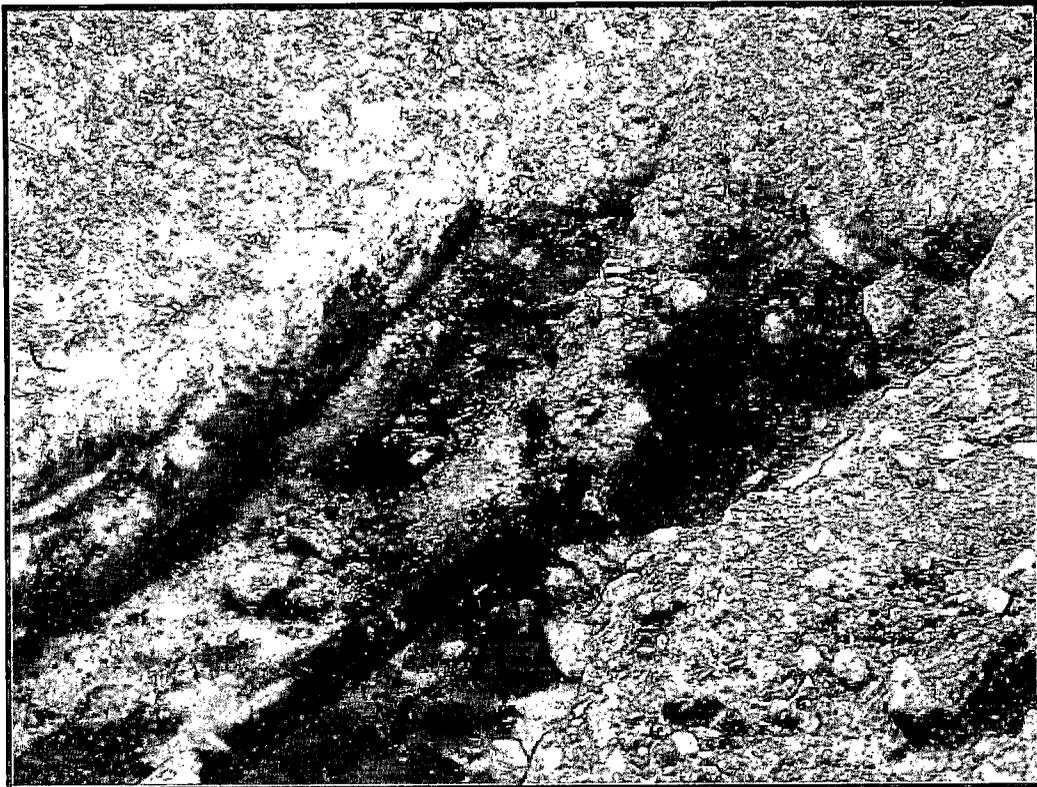
Test Trench 12 ½' bgs facing north



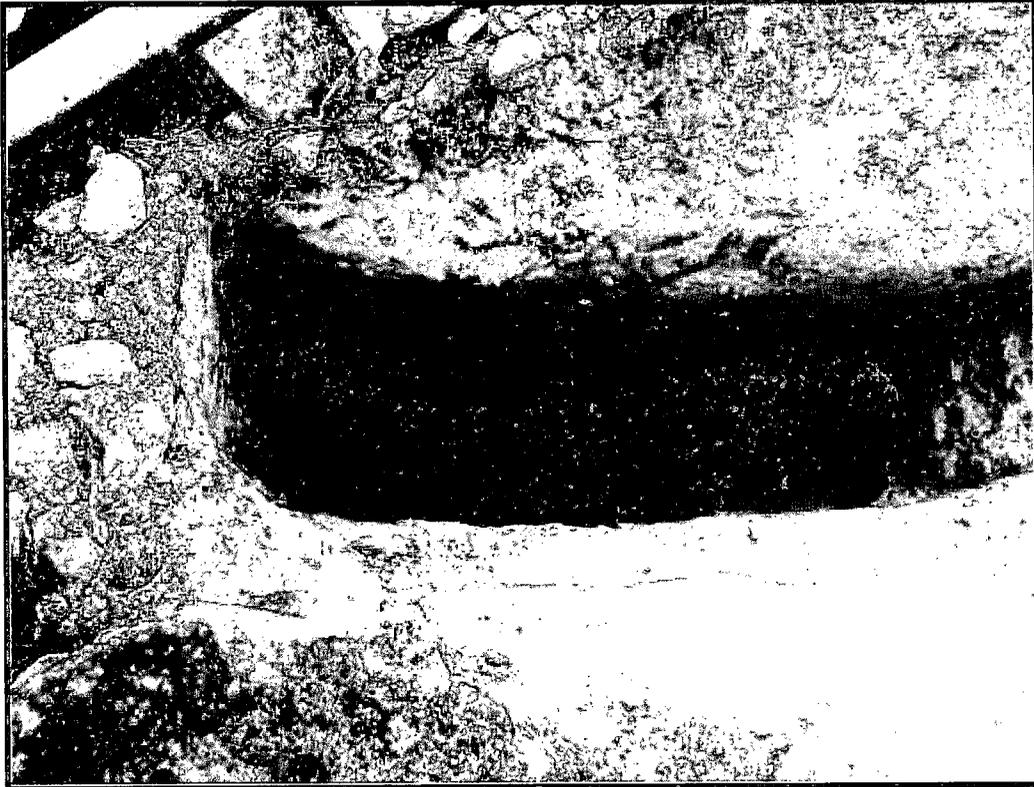
North wall of release area facing northwest



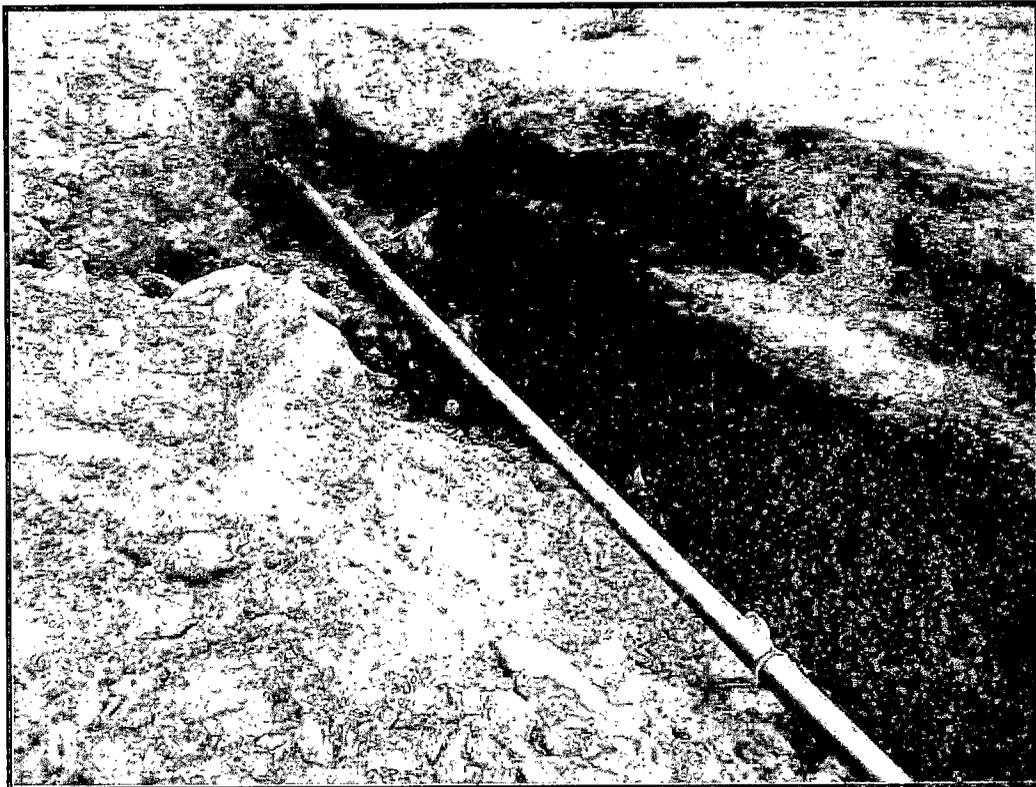
Release area facing west



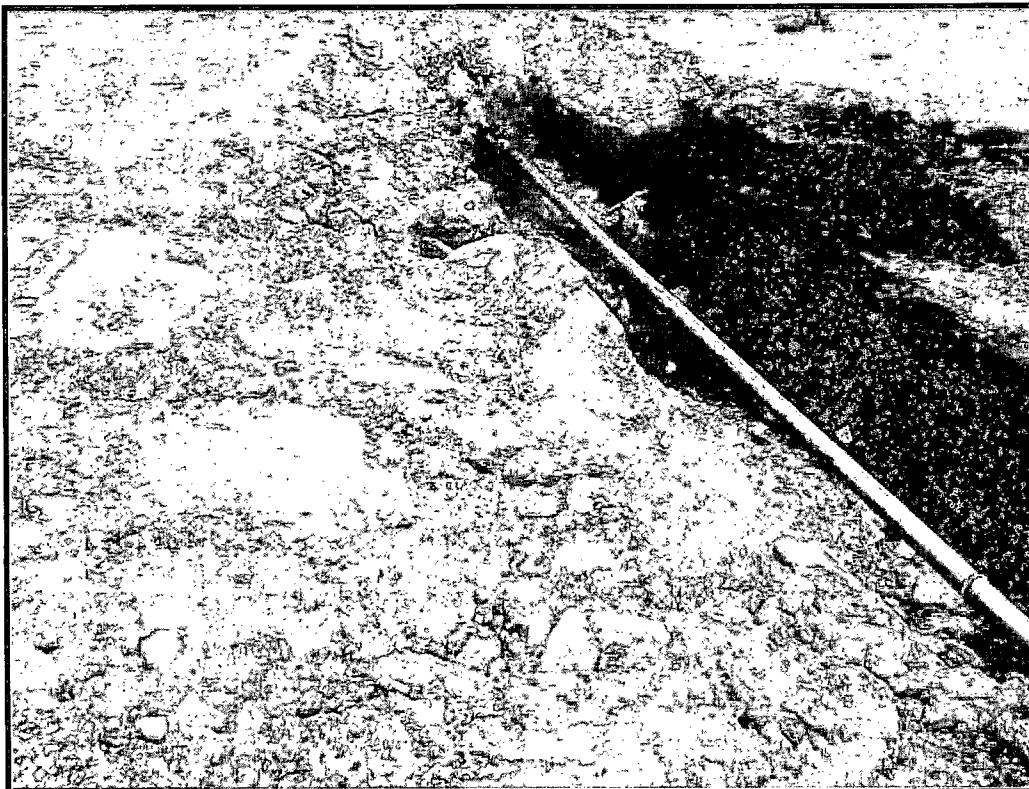
Release area facing east



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



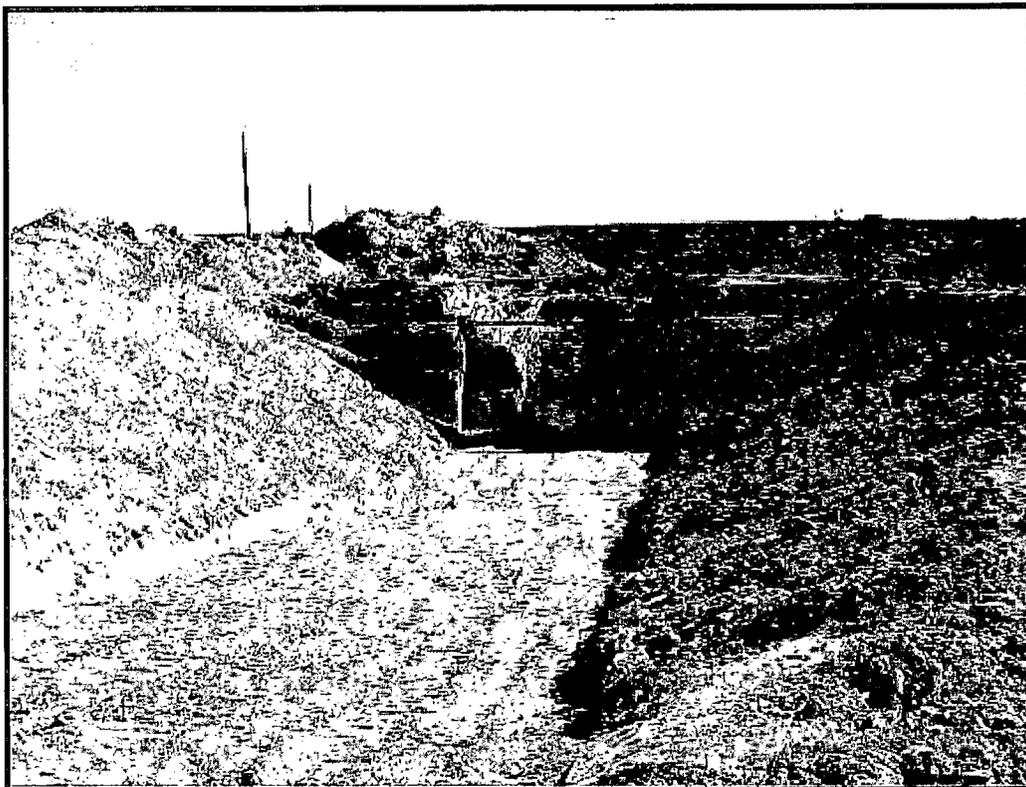
Excavated bottom



Excavated sloped area facing east



Excavated sloped area facing west



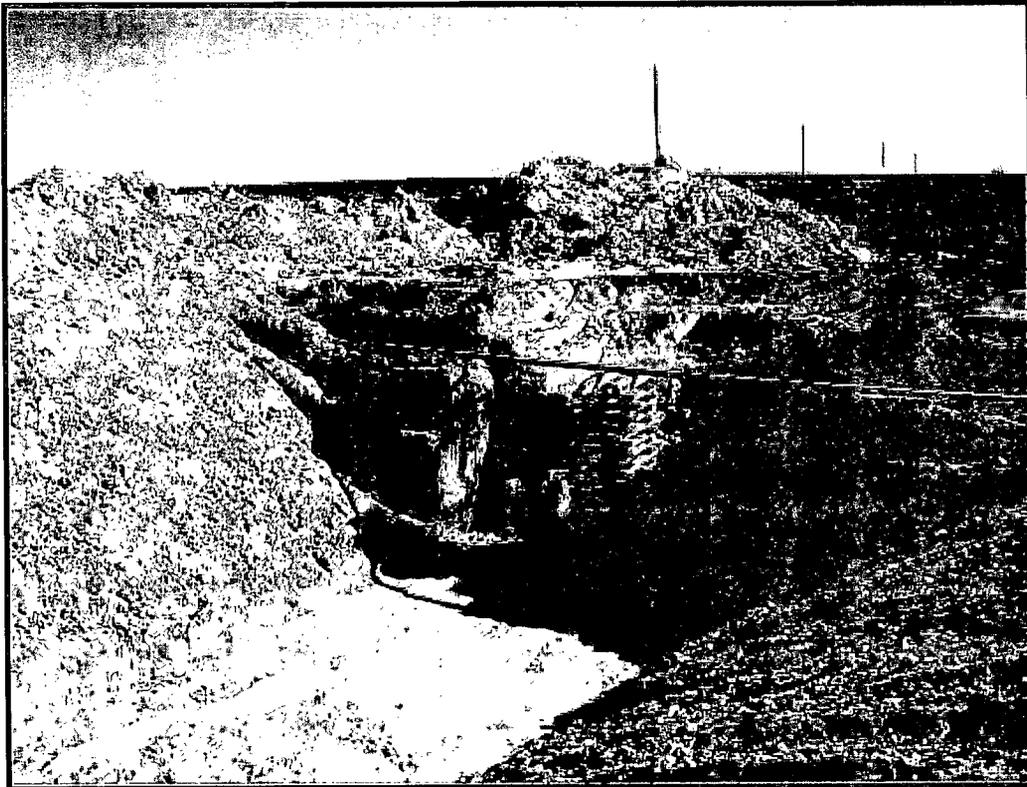
Excavated ramp area facing north



Excavated ramp with slope facing northwest



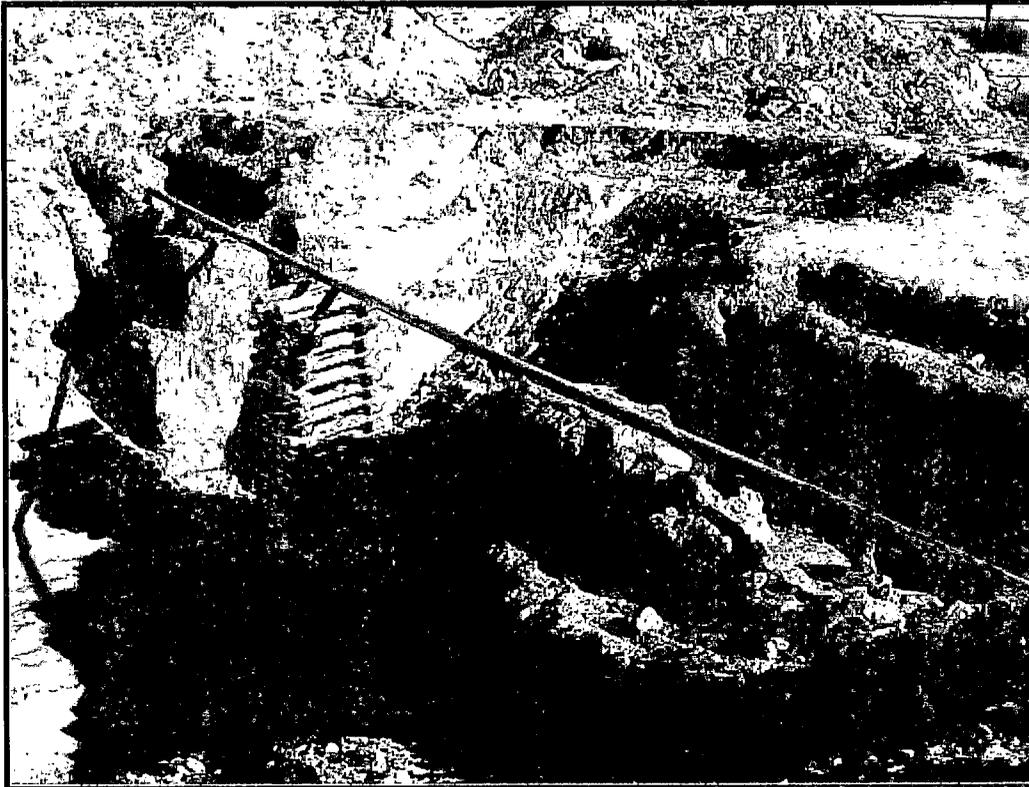
Excavated ramp area with slope facing northeast



Excavated bottom facing north



Excavated slope facing north

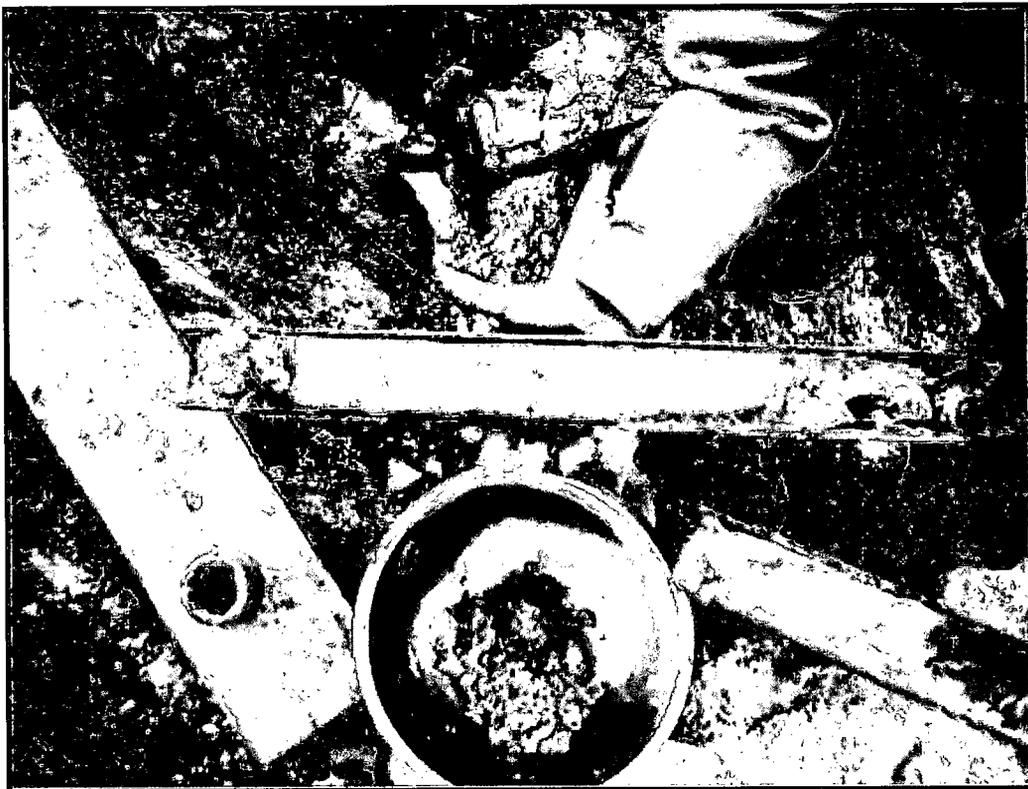


Excavated area facing west

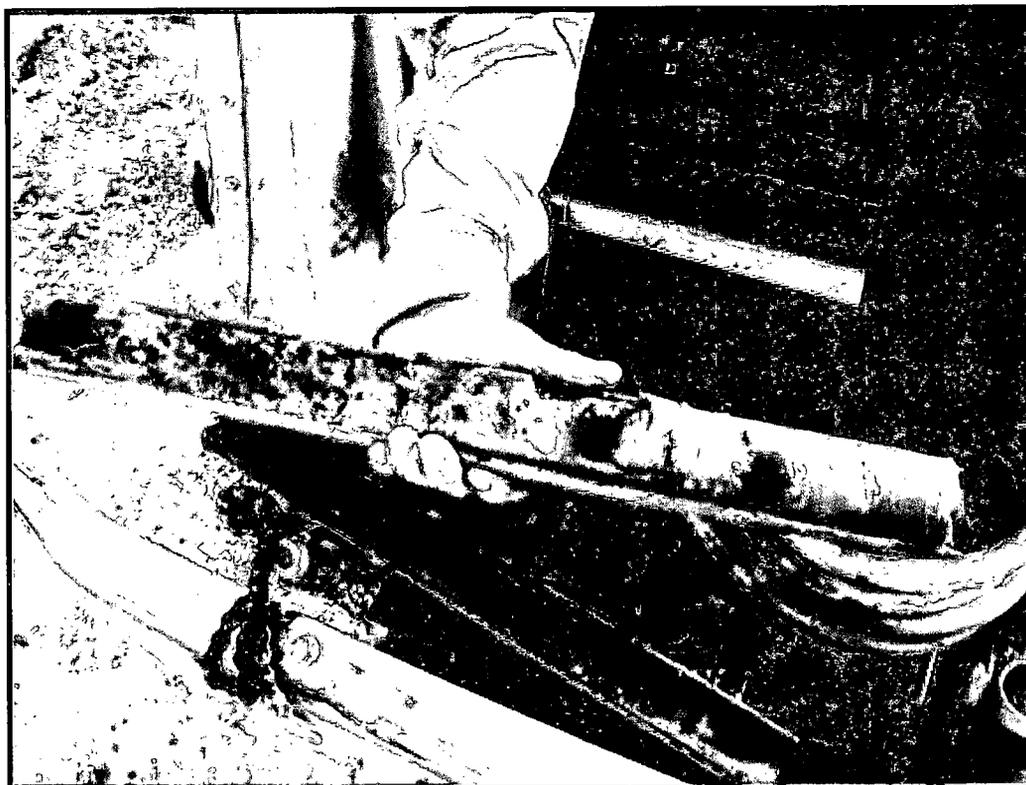
August 7, 2009



BH #1 20'



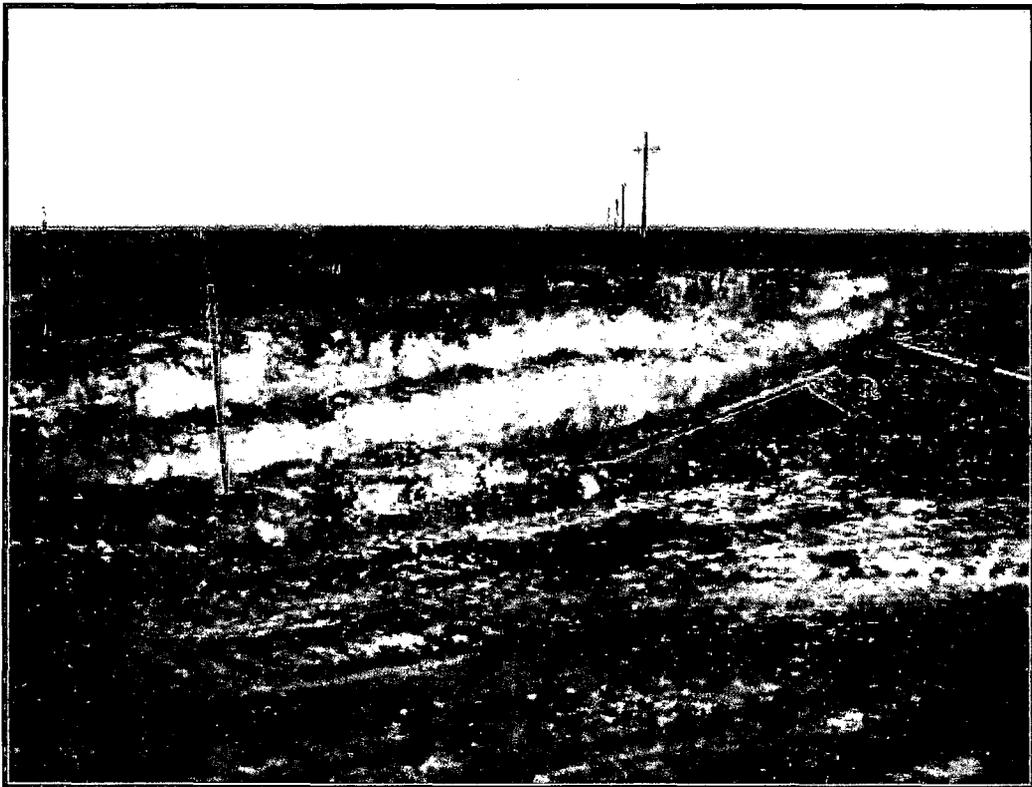
BH #1 25'



BH #1 30'



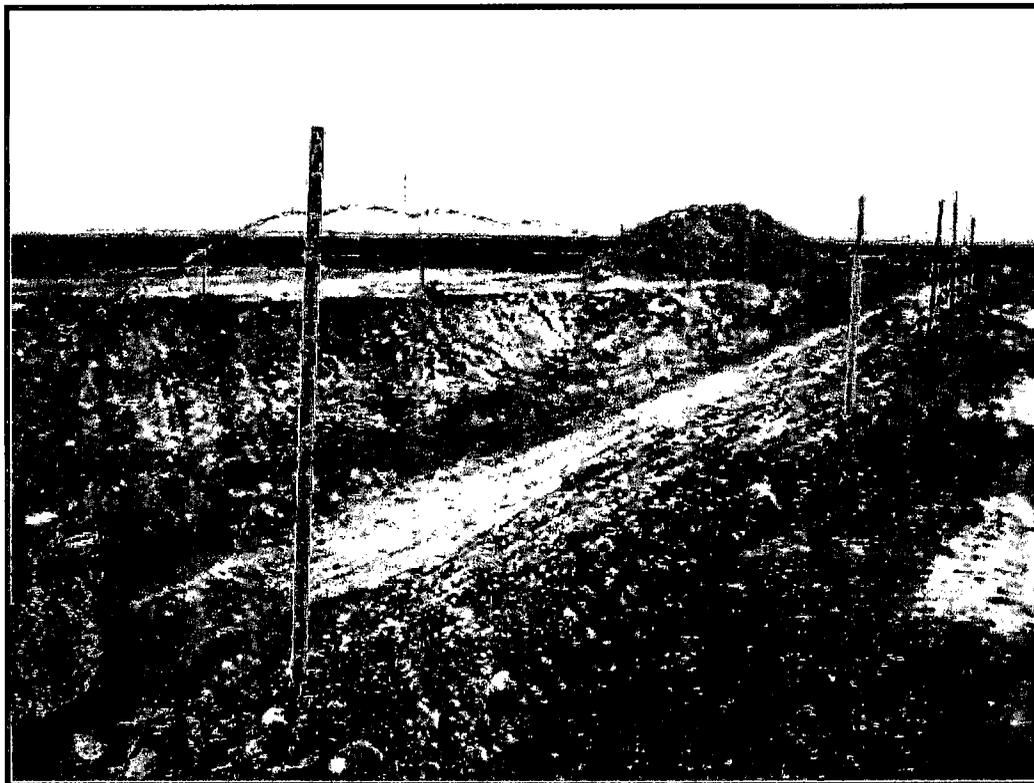
Excavation Facing South



Excavation Facing NE



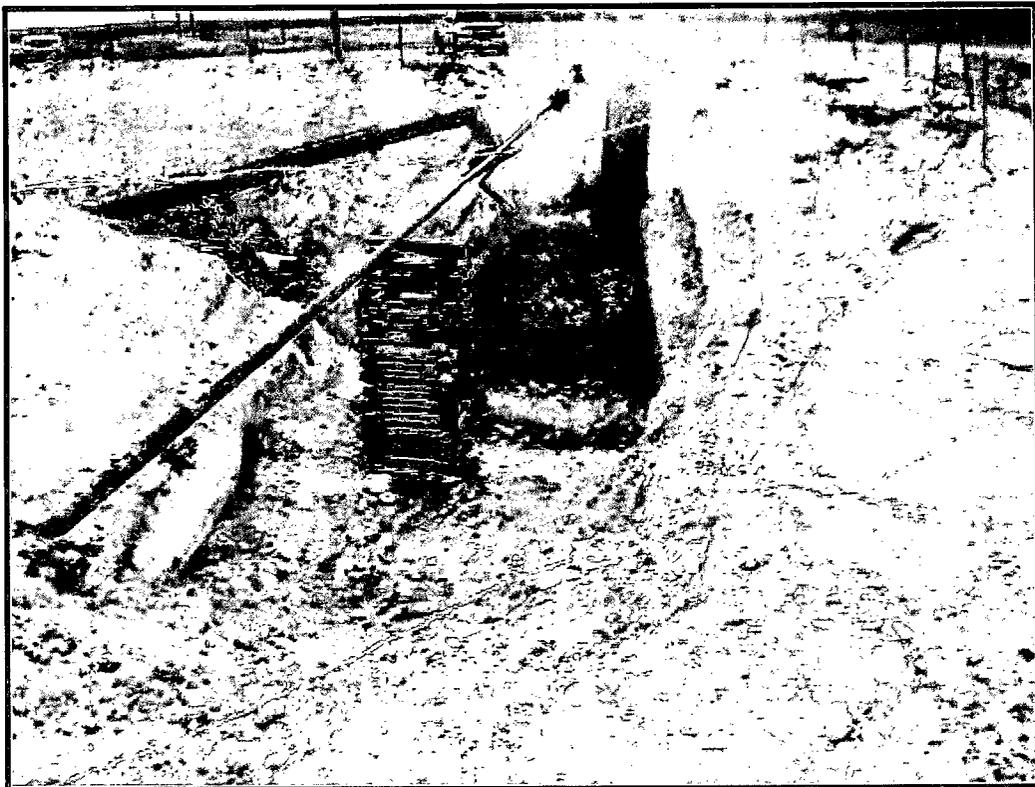
Excavation Facing East



Ramp Facing East



Ramp Facing North



Excavation Facing West



Backfilled Excavation Facing East



Backfilled Excavation Facing SE



Backfilled Excavation Facing South