EPFS PIT CLOSURE SUMMARY

**DEPUTY OIL & GAS INSPECTOR** 

JUL 1 7 1998

Operator: Meridian

Cleveland No. 3 Meter/Line ID - 71104

SITE DETAILS

Rng::9

MOCD Hazard Ranking: 30

Sec: 21

Unit: C

Land Type: BLM

PREVIOUS ACTIVITIES

Site Assessment: 6/11/94 Monitor Well: N/A

Excavation: 8/22/94 Re-Excavation: N/A Soil Boring: 8/8/95 Geoprobe: N/A

**CONCLUSIONS** 

The initial excavation was excavated to the top of bedrock, which was 5 feet below ground surface (bgs). PID field screening indicated subsurface soils to be 265 ppm at 5 feet bgs. Excavation was terminated and a sample was collected. Sample analysis indicated total BTEX to be above standards at 83 mg/kg and TPH was above standards at 2.380 mg/kg. A test boring was drilled in the center of the initial excavation to determine the vertical extent of impact to soil. A hard, gravbrown, medium-coarse grained sand (possibly sandstone) was encountered at 15 feet bgs and continued to the termination of the boring at 40 feet bgs. A soil sample was collected for BTEX and TPH analysis at 38-40 feet bgs. Laboratory analysis showed all BTEX compounds to be below detection limits. TPH Method 418.1 analysis showed TPH present at 106 mg/kg. The sample was re-analyzed using Method 8015 modified and the sample results were below laboratory detection limits.

### **RECOMMENDATIONS**

No further action is recommended at the site for the following reasons:

- The bulk of the impacted soil was removed during the phase 1 excavation.
- Test boring sample results indicated soils below standards 33 feet beneath the initial excavation.
- The excavation was terminated in bedrock.
- No groundwater was encountered in the test boring.
- No potential receptors are within 1,000 feet of the site.
- Residual hydrocarbons remaining in the soils at the bottom of the initial excavation will naturally degrade in time with minimal risk to the environment.



### FIELD PIT SITE ASSESSMENT FORM

9	• ·							
GENERAL	Meter: 7/10 Location: Cleveland No. 3  Operator #: Z999 Operator Name: Meridian P/L District: Balland  Coordinates: Letter: C Section Z1 Township: Z7 Range: 9  Or Latitude Longitude  Pit Type: Dehydrator Location Drip: X Line Drip: Other:  Site Assessment Date: 6-1/-94 Area: 11 Run: 31							
	NMOCD Zone:       Land Type:       BLM       ✓ (1)         (From NMOCD       State       ☐ (2)         Maps)       Inside       ☐ (2)       Fee       ☐ (3)         Outside       ☐ (2)       Indian       ☐         Depth to Groundwater       ☐ (1)       ☐ (1)       ☐ (2)         Less Than 50 Feet (20 points)       ☐ (1)       ☐ (2)         Greater Than 100 Ft (0 points)       ☐ (2)       ☐ (3)							
ASSESSMENT	Wellhead Protection Area:  Is it less than 1000 ft from wells, springs, or other sources of fresh water extraction?, or; Is it less than 200 ft from a private domestic water source? (1) YES (20 points) (2) NO (0 points)							
SITE ASS	Horizontal Distance to Surface Water Body Less Than 200 Ft (20 points) (1) 200 Ft to 1000 Ft (10 points) (2) Greater Than 1000 Ft (0 points) (3) Name of Surface Water Body \(\sum_{\text{Aguez Canyon}}\)  Name of Surface Water Body							
	(Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)  Distance to Nearest Ephemeral Stream (1) < 100'(Navajo Pits Only)  (2) > 100'							
KS	TOTAL HAZARD RANKING SCORE: 30 POINTS  Remarks:							
REMARKS	Juside V-Z. on Red line & Topp 15 luside							
RE	Drof Hast							

NO	ORIGINAL PIT LOCATION  Original Pit: a) Degrees from North 147 Footage from Wellhead 130  b) Length: 15 Width: 14 Depth: 4
ORIGINAL PIT LOCATION	Wellhead is-
-	Remarks: Photos - 1309
Ø	Bobtail
REMARKS	
	Completed By:
	Signature Date

# PHASE I EXCAVATION

# FIELD PIT REMEDIATION/CLOSURE FORM

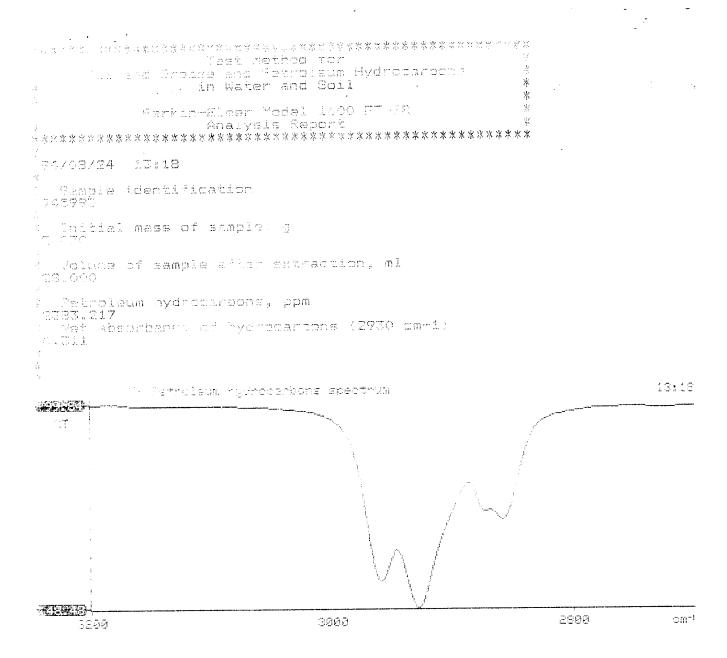
GENERAL	Meter: 71104 Location: Cleveland No. 3  Coordinates: Letter: C Section 21 Township: 27 Range: 9  Or Latitude Longitude  Date Started: 8-22-94 Run: 11 31
FIELD OBSERVATIONS	Sample Number(s): KP 202  Sample Depth: Feet  Final PID Reading PID Reading Depth Feet  Yes No  Groundwater Encountered
CLOSURE	Remediation Method:  Excavation  Onsite Bioremediation  Backfill Pit Without Excavation  Soil Disposition:  Envirotech  Tierra
70	Other Facility Name:
REMARKS	Remarks: Some Line markers. Started Remediating TO 12' SOIL TURNED Gray Looking with a Small Hit SAND STON: AT 5' Pid Closed Pit
	Signature of Specialist: Kelly Palelle (SP3191) 03/16/94



### FIELD SERVICES LABORATORY **ANALYTICAL REPORT**

### PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

	SAMPLE	IDENTIFICA	TION			
_	Fiel	d ID		Lab iD		_
SAMPLE NUMBER:	KP 200	2	9459	93		
MTR CODE   SITE NAME:	71104		1	N/A		
SAMPLE DATE   TIME (Hrs):	8-22-94	/	150	0	<del></del>	
SAMPLED BY:		N	/A			
DATE OF TPH EXT.   ANAL.:	9-26-91		8-7	4-94		ļ
DATE OF BTEX EXT.   ANAL.:	<del></del>	5/94	- State 8	3126A		•
TYPE   DESCRIPTION:	<u> </u>	<i>,</i>	light m	24 Sand	o Clay	]
			0	(	I	
REMARKS:						
		RESULTS				
	e fact	e de Serviciones				
PARAMETER	RESULT	UNITS	DF	QUALIF	IERS M(g)	V(ml)
BENZENE	LO.5	MG/KG	70		ivitgy	V(11117)
TOLUENE	30	MG/KG	ZO			
ETHYL BENZENE	1.9	MG/KG	SO			
TOTAL XYLENES	51	MG/KG	20			
TOTAL BTEX	83	MG/KG				
TPH (418.1)	2380	MG/KG			2.07	28
HEADSPACE PID	265	PPM				
PERCENT SOLIDS	90.5	%				
	- TPH is by EPA Method			•		
e Surrogate Recovery was at rative:	1.07	% for this sample	e All QA/QC	was accept	table.	
ATI results	attache	d Sum	pagate re	coven	A wa	000
= Dilution Factor Used	limits a	the to	Umatri	x into	yere	nce.
= Dilution Factor Osed				9/2/	,	





ATI I.D. 408397

August 29, 1994

El Paso Natural Gas Co. P.O. Box 4990 Farmington, NM 87499

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On 08/25/94, Analytical Technologies, Inc., (ADHS License No. AZ0015), received a request to analyze non-aqueous samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

If you have any questions or comments, please do not hesitate to contact us at (505) 344-3777.

H. Mitchell Rubenstein, Ph.D.

Laboratory Manager

MR:jt

Enclosure



### GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)

CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 408397

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE

1 1100 1						
SAMPI ID. #		MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
22	945992	NON-AQ	08/22/94	08/25/94	08/26/94	10
23	945993	NON-AQ	08/22/94	08/25/94	08/26/94	20
24	945994	NON-AQ	08/22/94	08/25/94	08/26/94	1
PARAI	METER		UNITS	22	23	24
BENZ			MG/KG	<0.25	<0.5	<0.025
TOLU			MG/KG	1.2	30	<0.025
	LBENZENE		MG/KG	0.60	1.9	<0.025
	L XYLENES		MG/KG	6.0	51	<0.025

### SURROGATE:

BROMOFLUOROBENZENE (%)

62\* 159\*

94

# PHASE II

### RECORD OF SUBSURFACE EXPLORATION

### PHILIP ENVIRONMENTAL

4000 Monroe Road

Farmington, New Mexico 87401 (606) 326-2262 FAX (606) 326-2388

Elevation	
Borehole Location	727, R9, 521, C
GWL Depth	<del>,</del>
Logged By	Jeff W. Kindley
Drilled By	G. Sudduth
Date/Time Started	08/08/95 (124
Date/Time Comple	ted 091 08 195 1610

		Well #			
	-	Page	ı	of	
Project Name	EPNG Pi	ts			
Project Number	14509		60	000.77	
Project Location	Clan	Dance	2 میم		
Well Logged By	Je	711 off W. Kindley			
Personnel On-Site	_	G. Suddu	th.	D. Rok	ut
Contractors On-Site	_				
Client Personnel On-	-Site				
Drilling Method	4 1/4 ID	HSA			
Air Monitoring Meth	od P	D, CGI			

BH-1

Depth (Feet)	Sample Number	Sample Interval	Sample Type & Recovery (inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)	Monitori nite: PPI BH	-	Drilling Conditions & Blow Counts
0				Backfill to 5'					
10					,		!		·
15	1	13-15	1.5	SAND Gray/brown, modium to conce gamed, come, dry				85 114	1146
20	2	18-20	1.5 T.5	S.A.A -				105 115	(2)0
25	3	23-25	1.5	S.A.A.				원 91	1245
30	4	28-30	1.5	SAND broughbrown, median graned, hand, dry				52	1430
35	5	33-35	15	SAA				<u>14</u> 62	1450
40	6	38.4I	1.5	SAND, brown, medianto com grain, cose, dry Boring terminated at 40				13	\525

Comments:

Sangle collected at 38-40 interval for BTEX/TPM and sis B. M.

Geologist Signature

ofhen Knob



# FIELD SERVICES LABORATORY

### ANALYTICAL REPORT

## PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

### SAMPLE IDENTIFICATION

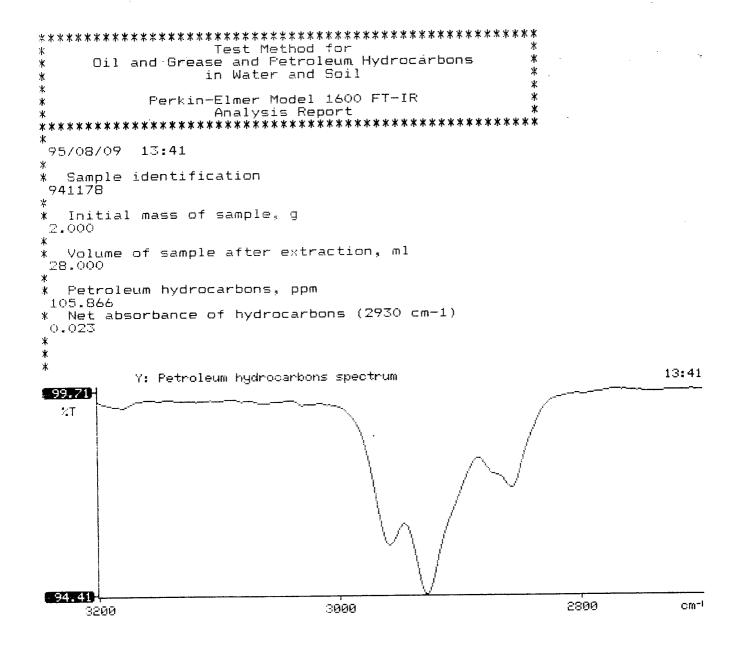
	Field ID	Lab ID
SAMPLE NUMBER:	JWK 8	947178
MTR CODE   SITE NAME:	71104	Cleveland No. 3
SAMPLE DATE   TIME (Hrs):	08-08-95	15:25
	Phase II Drilling	
PROJECT:	Phase   Urillian	819195
DATE OF TPH EXT.   ANAL.:	4/9/95	011113
DATE OF BTEX EXT.   ANAL.:		<del> </del>
TYPE   DESCRIPTION:	VG	Grown Sand

Field Remarks: (38-40')

### **RESULTS**

PARAMETER	RESULT	UNITS	QUALIFIERS			
PANAMETER			DF	Q	M(g)	V(ml)
BENZENE	20.025	MG/KG	(			
TOLUENE	40.025	MG/KG	(			
ETHYL BENZENE	20.025	MG/KG	1			
TOTAL XYLENES	40.025	MG/KG				
TOTAL BTEX	40.10	MG/KG				
TPH (418.1)	106	MG/KG			2.0	28
HEADSPACE PID	13	PPM				
PERCENT SOLIDS	91.3	%				
	TPH is by EPA Method	418.1 and BTEX is by El	PA Method 8020			

The Surrogate Recovery was at	<u> 10 l</u>	for this sample	All UA/UC was acceptable.	
Narrative:	for BTEX	and mão	d 8015 attack	
ALL RESULTS	TOT OTER			
DF = Dilution Factor Used				
0			. /	





ATI I.D. 508367

August 17, 1995

El Paso Natural Gas Co. P.O. Box 4990 Farmington, NM 87499

Project Name/Number: PIT CLOSURE/PHASE I, II & III PITS 24324

Attention: John Lambdin

On **08/11/95**, Analytical Technologies, Inc., (ADHS License No. AZ0015), received a request to analyze **non-aqueous** samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

If you have any questions or comments, please do not hesitate to contact us at (505) 344-3777.

KMANell

Kimberly D. McNeill Project Manager

MR:jt

Enclosure

H. Mitchell Rubenstein, Ph.D. Laboratory Manager



### GAS CHROMATOGRAPHY RESULTS

TEST

: BTEX (EPA \$020)

CLIENT

: EL PASO NATURAL GAS CO. ATI I.D.: 508367

\*

PROJECT #

: 24324

PROJECT NAME : PIT CLOSURE/PHASE I, II & III

SAMPI ID. #		* MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
13	947174	NON-AQ	08/08/95	08/14/95	08/15/95	1
14	947178	NON-AQ	08/08/95	08/12/95	08/12/95	1
15	947179	NON-AQ	08/08/95	08/12/95	08/12/95	1
PARAM	METER	•	UNITS	13	14	15
BENZE	ENE	a .	MG/KG	<0.025	<0.025	<0.025
TOLUE	ENE		MG/KG	<0.025	<0.025	<0.025
ETHYI	LBENZENE		MG/KG	<0.025	<0.025	<0.025
TOTAI	XYLENES		MG/KG	<0.025	<0.025	<0.025
SURRO	OGATE:					
BROMO	FLUOROBENZENE (%)			107	101	109

PROJECT	#
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: 24324

PROJECT NAME : PIT CLOSURE/PHASE I, II & III

SAMPI ID. #		MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
09	947161	NON-AQ	08/04/95	08/12/95	08/14/95	1
11	947172	NON-AQ	08/07/95	08/12/95	08/14/95	1
14	947178	NON-AQ	08/08/95	08/12/95	08/14/95	1
PARAMETER UNIT		UNITS	09	11	14	
FUEL HYDROCARBONS		MG/KG	<5	<5	<5	
HYDRO	CARBON RANGE			-	-	=
HYDROCARBONS QUANTITATED USING				-	-	-

SURROGATF: