EPFS PIT CLOSURE SUMMARY

DEPUTY OIL & GAS INSPECTOR

JUL 1 7 1998

Canyon Largo Unit # 49 Meter/Line ID - 70655

Légals - Twn: 25

Rng: 7

NMOCD Hazard Ranking: 40

Operator: Meridian

SITE DETAILS

Sec: 3

Unit: E

Land Type: FEE

PREVIOUS ACTIVITIES

Site Assessment: 6/29/94 Monitor Well: N/A

Excavation: 7/14/94

Re-Excavation: N/A

Soil Boring: 8/3/95

Geoprobe: N/A

CONCLUSIONS

The initial excavation was excavated to the practical extent of the trackhoe, which was 12 feet below ground surface (bgs). PID field screening indicated subsurface soils to be 198 ppm at 12 feet bgs. Excavation was terminated and a sample was collected. Sample analysis indicated total BTEX to be above standards at 59 mg/kg, and TPH was above standards at 5,120 mg/kg. A test boring was drilled in the center of the initial excavation to determine the vertical extent of impact to soil. The soil lithology consisted of a brown sand, which continued to approximately 30 feet bgs. A brown to olive sandstone was encountered at 30 feet bgs and continued to the termination of the boring at 40.75 feet bgs. A soil sample was collected for BTEX and TPH analysis at 40-40.75 feet bgs. Laboratory analysis showed all BTEX compounds to be below laboratory detection limits and TPH present at 87.7 mg/kg.

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 28 feet beneath the initial
- 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.

OIL CON. DIV.

FIELD PIT SITE ASSESSMENT FORM

1	
GENERAL	Meter: 70-655 Location: Canyon Largo Unit No. 49 Operator #: 2999 Operator Name: Meridian P/L District: Ballard Coordinates: Letter: E Section 3 Township: 25 Range: A Or Latitude Longitude Pit Type: Dehydrator Location Drip: X Line Drip: Other: Site Assessment Date: 66/29/94 Area: 07 Run: 41
	NMOCD Zone: (From NMOCD Land Type: BLM □ (1) (From NMOCD State □ (2) Maps) Inside □ (2) Fee □ (3) Outside □ (2) Indian □ Depth to Groundwater □ (1) □ (2) □ (3) Less Than 50 Feet (20 points) □ (2) □ (2) Greater Than 100 Ft (0 points) □ (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 ASSE	Horizontal Distance to Surface Water Body Less Than 200 Ft (20 points) 200 Ft to 1000 Ft (10 points) Greater Than 1000 Ft (0 points) Name of Surface Water Body Pallucha (3) OUL GON. DIV.
	(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'
	TOTAL HAZARD RANKING SCORE: 40 POINTS
REMARKS	Remarks: Redline Book-Inside Vulacable Zone Tope- Inside One Pit, Pit is dry, will close one pit.
RE	Location Size Size Topical May
	Location sign says TZSN, RGW, actaully TZSN, R7W.

Date

PHASE I EXCAVATION

-415,0410		
16 1 11		

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 70655 Location: Canyon Largo Unif # 49 Coordinates: Letter: £ Section 3 Township: 25 Range: 7 Or Latitude Longitude Date Started: 7/14/94 Run: 07 41
FIELD OBSERVATIONS	Sample Number(s): Feet Sample Depth: Feet Final PID Reading PID Reading Depth Feet Yes No Groundwater Encountered Approximate Depth Feet
CLOSURE	Remediation Method : Excavation Onsite Bioremediation Backfill Pit Without Excavation Soil Disposition:
CI	Envirotech
REMARKS	Remarks: Excavated p.t to 12', Took P.D Sample, Closed
	Signature of Specialist: Why Jan. (SP3191) 03/16/94



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

_	Field ID	Lab ID	
SAMPLE NUMBER:	KD 148	945669	
MTR CODE SITE NAME:	70455	N/A	
SAMPLE DATE TIME (Hrs):	7-14-94	1430	
SAMPLED BY:		N/A	
DATE OF TPH EXT. ANAL.:	7/19/94	7 19 194	
DATE OF BTEX EXT. ANAL.:	7/24/94	7/24/94	1
TYPE DESCRIPTION:	VE '	Brown Gren Coarse Sa	nd
_			
REMARKS: _			

RESULTS

PARAMETER	RESULT UNITS			QUALIFIERS			
	"		DF	Q.	M(g)	V(ml)	
BENZENE	20.5	MG/KG	20				
TOLUENE	20,5	MG/KG	20				
ETHYL BENZENE	2.3	MG/KG	20				
TOTAL XYLENES	5le	MG/KG	20				
TOTAL BTEX	59	MG/KG					
TPH (418.1)	5120	MG/KG			1.99	28	
HEADSPACE PID	198	PPM					
PERCENT SOLIDS	194 91.35	91.4 %					

LLIC		/ / / / / / / / / / / / / / / / / / / /			
		- TPH is by EPA Method	418.1 and BTEX is by EPA Me	thod 8020 —	
The Surrogat	e Recovery was at	: <u>98</u>	% for this sample	AII QA/QC	was acceptable.
Narrative:	ATI	results	attached		

DF = Dilution Factor Used

8/12/44

Test Method for

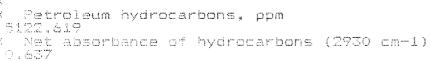
Test Method for

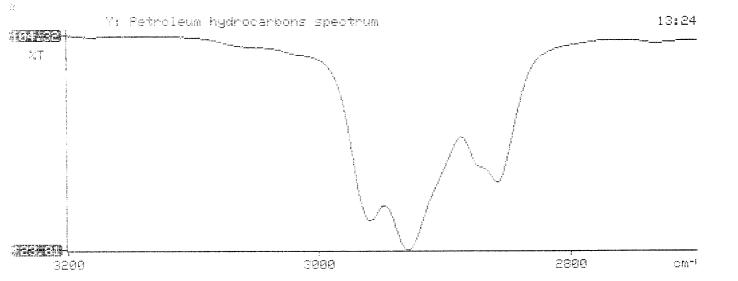
In Water and Soil

Perkin-Elmer Model 1600 FT-IR

Analysis Report

Analysi







ATI I.D. 407376

July 27, 1994

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



Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On 07/20/94, Analytical Technologies, Inc., (ADHS License No. AZ0015), received a request to analyze non-aqueous samples. 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.

Letitia Krakowski, Ph.D.

Project Manager

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.: 407376

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE

SAMPL ID. #		MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
$\frac{1D}{04}$	945668	NON-AQ	07/14/94	07/21/94	07/21/94	1
05	945669	NON-AQ	07/14/94	07/24/94	07/24/94	20
06	945679	NON-AQ	07/15/94	07/21/94	07/21/94	1
PARAM	ETER		UNITS	04	05	06
BENZE			MG/KG	<0.025	<0.5	<0.025
TOLUE			MG/KG	<0.025	<0.5	<0.025
ETHYLBENZENE			MG/KG	<0.025	2.3	<0.025
TOTAL XYLENES			MG/KG	<0.025	56	<0.025
SURROGATE: BROMOFLUOROBENZENE (%)		%)		106	98	103

PHASE II

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도 보고 있는 사람들이 되었다. 그는 이 사람들이 되고 있다. 그는 사람들이 되는 사람들이 되었다. 그런 그는 사람들이 되었다. 그는 사람들이 되었다.

RECORD OF SUBSURFACE EXPLORATION

Burlington Environmental Inc. 4000 Monroe Road Farmington, New Mexico 87401

Farmington, New Mexico 87401 (506) 326-2262 FAX (505) 326-2388

Elevation					
Borehole Location	LH2r E-53-725-R7				
GWL Depth					
Logged By	J.F. LaBarbera				
Drilled By	K. Padilla				
Date/Time Started	8/3/95 - 1/47				
Data/Time Comple					

Borehole #	BH-1	
Well #		
Page /	of 2	

Project Name EPNG PITS

Project Number 14509 Phase 6000.77

Project Location Character Location Phase 1000.77

Well Logged By
Personnel On-Site
Contractors On-Site
Client Personnel On-Site

 Drilling Method
 4 1/4 ID HSA

 Air Monitoring Method
 PID, CGI

Depth (Feet)	Sample Number	Sample Interval	Sample Type & Recovery (inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)		Monitor nits: ppi 8H		Drilling Conditions & Blow Counts
5	,			Fill						
15	ł	15+ 16.25	14	Gray, kose, vfn to fn, SAMO tr. silt, dry, odor, usually impacted	sp ,		AST.	D +	i013 499	कड़् 1154(
20	a	40- äl	12	AA, no visual impart apparent	5P		1.7	/45	675 434	1203
25	3	25- 24	12	AA, for to med.	SP		٦٤	357	1934 394	1223
30	4	30-	11	Brain to Olive to Red Brain, for to fine to mad, SANISTANE, mad- erate to passey comanted dry, Shodor.	X		29	197	14.9	Cabble 1822 Hard drilling.
35	5	35- 34	12	Brown, for to mid, SAND, 3r-3118, dry, Slador	SP		24 te 72	241	135	1237

Commenter	
Comments:	

Geologist Signature

John & Barlon

RECORD OF SUBSURFACE EXPLORATION

Burlington Environmental Inc.
4000 Monroe Road
Farmington, New Mexico 87401
(505) 326-2262 FAX (505) 326-2388

Elevation
Borehole Location 1076-55-5

	*		~ ~	
Project Name	EPNG PITS			
Project Number	14509	Phase	6000.77	
Project Location	Carren	Large	Unit #49	706
		- 3		
Well Logged By	J.F. La	Barbera		

Elevation

Borehole Location 12tt2 5-53-735-87

GWL Depth
Logged By J.F. LaBarbera

Drilled By K. Padilla

Date/Time Started 9/3/95-1147

Date/Time Completed - /343

Well Logged By
Personnel On-Site
Contractors On-Site
Client Personnel On-Site

Drilling Method 4 1/4 ID HSA
Air Monitoring Method PID, CGI

		,,,,,,	Sample		uscs	Depth				
Depth	Sample		Type &			Lithology Change (feet)	Air Monitoring Units: ppm 125 BZ BH S			Drilling Conditions
(Feet)	Number	Interval	Recovery (inches)							& Blow Counts
-4 °	6	40 - 44,75	9	HO-46.5- AA He.5-Brown, moderately hard, for to coarse, SAND STONIE, pearly cemented, no odor noted. TOB ER 40,75'	χ		l	379	9/9/9	1257
				hard, for to coarse, SAND	→ \				711	
				STONIE, pearly cemented,						
i 5				TA 2 -3 10 35'						
				100 64 40,73						
10										
F 15										
20										
					İ					
25	1									
 										
30										
			-							,
35										
 										
40										

Comments:

Sample JFL 43 from 40-90-75' sent to lab for BJEX/TPH analysis.

Geologist Signature

John Jahren

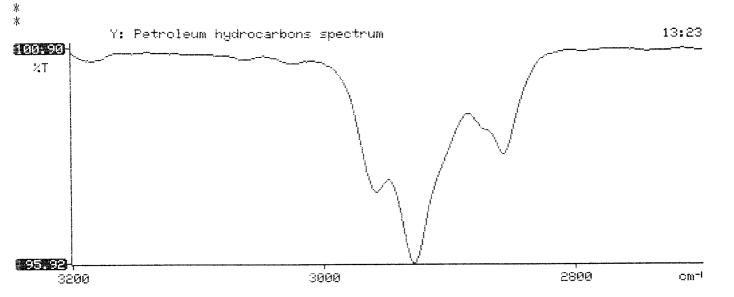
SEIFESU Natural Gas Company Phace I Drilling FIELD SERVICES LABORATORY Canyonhargo Unit #49

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field	0 11-0						
SAMPLE NUMBER:	JFL 43	947						
MTR CODE SITE NAME:	70655							
SAMPLE DATE TIME (Hrs):	08/03/9	12:						
SAMPLED BY:		Α						
DATE OF TPH EXT. ANAL.:	8-4-	95	8-4					
DATE OF BTEX EXT. ANAL.:	8-9-	8-4-95 8-9-95						
TYPE DESCRIPTION:	VG		Borown Sa	nd del	211			
RESULTS								
	RESULT	UNITS		QUALIF	IERS			
PARAMETER			DF	Q	M(g)	V(ml)		
BENZENE	20.025	MG/KG)					
TOLUENE	Lo.025	MG/KG						
ETHYL BENZENE	40.025	MG/KG)		<u> </u>			
TOTAL XYLENES	L0.025	MG/KG				<u></u>		
TOTAL BTEX	40.10	MG/KG				<u> </u>		
TPH (418.1)	87.7	MG/KG			2.14	28		
HEADSPACE PID	9	PPM						
PERCENT SOLIDS	92.6	%						
The Surrogate Recovery was at Narrative:	TPH is by EPA Method 104	418.1 and BTEX is by % for this samp		was accep	table.			
DF = Dilution Factor Used	\							

Test Method for 术 * Oil and Grease and Petroleum Hydrocarbons * in Water and Soil * 滓 Perkin-Elmer Model 1600 FT-IR * Analysis Report ************************ 95/08/04 13:23 * Sample identification 947142 * Initial mass of sample, g 2.140 Volume of sample after extraction, ml 28.000 Petroleum hydrocarbons, ppm 87.663 Net absorbance of hydrocarbons (2930 cm-1) 0.022 *





ATI I.D. 508342

August 11, 1995

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

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

Attention: John Lambdin

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Kimberly D. McNeill

Project Manager

Malall

MR:jt

Enclosure

H. Mitchell Rubenstein, Ph.D.

Laboratory Manager



GAS CHROMATOGRAPHY RESULTS

TEST

: BTEX (EPA 8020)

CLIENT

: EL PASO NATURAL GAS CO. ATI I.D.: 508342

PROJECT #

: 24324

PROJECT NAME : PIT CLOSURE/PHASE I & II

SAMPI		MAMDIY	DATE	DATE	DATE	DIL. FACTOR
ID. #	CLIENT I.D.	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
04	947141	NON-AQ	08/03/95	08/09/95	08/10/95	1
05	947142	NON-AQ	08/03/95	08/09/95	08/09/95	1
06	947143	PA-NON	08/03/95	08/09/95	08/09/95	1
PARAM	IETER		UNITS	04	05	06
BENZE	ENE		MG/KG	<0.025	<0.025	0.032
TOLUE	ENE		MG/KG	<0.025	<0.025	0.042
ETHYI	LBENZENE		MG/KG	<0.025	<0.025	<0.025
TOTAL	XYLENES		MG/KG	<0.025	<0.025	<0.025
SURRO	OGATE:					
BROMO	OFLUOROBENZENE (%)			98	104	98