S PIT CLOSURE SUMMARY

JUL 1 7 1998

Annie L. Elliot B #2 Meter/Line ID - 70473

SITE DETAILS

- Twn: 29

Rng: 9

Sec: 10

Unit: M

NMOCD Hazard Ranking: 30

Operator: Amoco

Land Type: BLM

PREVIOUS ACTIVITIES

Site Assessment: 5/7/94

Excavation: 5/17/94

Soil Boring: 6/19/95 Geoprobe: N/A

Monitor Well: N/A Re-Excavation: N/A

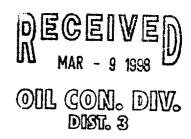
CONCLUSIONS

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 595 ppm at 12 feet bgs. Excavation was terminated and a sample was collected. Sample analysis indicated total BTEX to be below standards at 16 mg/kg and TPH was above standards at 474 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 below the excavation consisted of a tan, medium to coarse grained sand, which continued to the termination of the boring at 60 feet bgs. A soil sample was collected for BTEX and TPH analysis at 58.5-60.5 feet bgs. Laboratory analysis showed all BTEX compounds to be below laboratory detection limits and TPH present at 59.2 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 46.5 feet beneath the initial excavation.
- 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

GENERAL	Meter: 70473 Location:ANNIE L. EILIOT B #2 Operator #:O203 Operator Name: Amoco P/L District:BIDOMEIELD Coordinates: Letter: M Section Township: Range: Or Latitude Longitude Pit Type: Dehydrator Location Drip: Line Drip: Other: Site Assessment Date: Area: Run:
	NMOCD Zone: (From NMOCD Maps) Inside Outside Depth to Groundwater Land Type: BLM State (2) State (2) Indian Indian
	Less Than 50 Feet (20 points) \(\sum (1)\) 50 Ft to 99 Ft (10 points) \(\sum (2)\) Greater Than 100 Ft (0 points) \(\sum (3)\)
ITE 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)
	Horizontal Distance to Surface Water Body Less Than 200 Ft (20 points) 200 Ft to 1000 Ft (10 points) (2)
S	Greater Than 1000 Ft (0 points) (3) (3) (60No DIVo Name of Surface Water Body <u>Manzanares Cany</u> on DIST。3
	(Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)
	Distance to Nearest Ephemeral Stream (1) < 100'(Navajo Pits Only)
	TOTAL HAZARD RANKING SCORE: POINTS
REMARAS	Remarks: THREE PITS ON LOCATION, WILL CLOSE ONLY ONE, PIT IS DRY, LOCATION IS JUST WEST OF HWY. 64 ON A LITTLE HILL IN MANZANARES CANYON.
EMA	PEOLINE AND TOPO CONFIRMED LOCATION TO BE INSIDE THE V.Z.
E	DIG & HACEL

(SP3190) 04/08/9

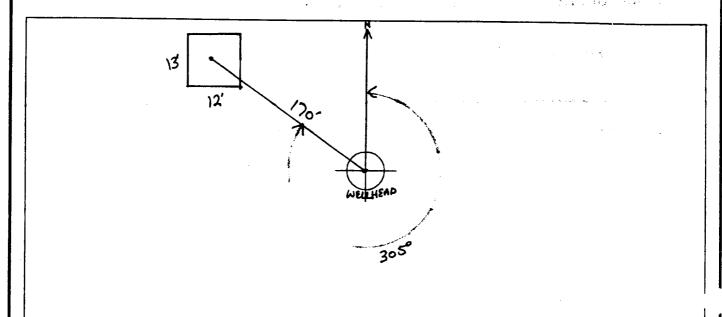
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REMARKS

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 305° Footage from Wellhead 170′

b) Length : ___/3'__ Width : ___/2'__ Depth : ____3'_



Rem	arks :
TOOK	PICTURES AT 3:10 P.M.
END	DUMP
Comp	oleted By:

Signature

5.7.94

Date

PHASE I EXCAVATION

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				r de la companya della companya della companya de la companya della companya dell
그 그 그들은 그 전에 되고 때문				
	가 있는 하는 기부 시간의 것이라고 있다. 			
		발생 (1987년) 1일 시간		
그는 그렇는 동생하다 환경				
		를 잃었다. 하는 글래스와 그리고 하는 것 기가 가게 되었는 하는 그는 사람들이다.		
		. 이렇게 들어보고 있다. 그런 그런 그를 살아 있다. 하나 사용하는 기를 받는 것이 되는 것이 되었다. 것이		
		사용하는 것이 되었다면 되는 것이다. 1985년 李왕이 한 왕교들이 되었다고 있다.		원범을 보고 밝는 그는 그 전에 가지 않는
	그 성도 10 - 프리마음 12등 12학 - 12 			
		의 등 경우를 받는 것이 되었다. 일이 경우를 보려고 말했다. 이 등이 되었다.		
		시계 10년 1일 전 10년 1일		보고 있는 목적으로 있다. 사용하는 기계
				일본 경기 보다 하는 것이 없는 것이 없다.
	마시 - 아니라 - 경우 프라이어를 보고 있다. 이 아니라			
				음악 경우 중요한 경우 가는 것
			발표를 가입니다. 기교통 12:10 기교 및 기계 (1) 기계 (1) 기계 (1)	
				reine de la companya de la companya Respectivo de la companya de la com
		성 등 부활 기능성 개발 기능 수 있는 함께 함께 표 하는 기술을 받는 경기를 받는 것이 되었다.	10 일 (설립 # 5 점) 영요 (설립 : 10 전 :	
			등 경기 왕으로 된 경우는 것이다. 14.12명이 불고 그는 사람이 모든	
이 기가 있다고 하는 것이 없었다.				
	는 경기에게 보고 있다고 화면을 받아 다 보고 있는 것을 보고 있는 것을 다니다.			

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 70473 Location: Anne L Elliof B 2 Coordinates: Letter: M Section 10 Township: 29 Range: 9 Or Latitude Longitude Date Started: 5-17-94 Area: 10 Run: 53
I. OBSERVATIONS	Sample Number(s): KD 68 Sample Depth:!Z'
URE	Remediation Method: Excavation Onsite Bioremediation Backfill Pit Without Excavation (3)
CLOSI	Soil Disposition: Envirotech (1) (2) Name:
	Pit Closure Date: <u>5-17-99</u> Pit Closed By: <u>BEI</u>
, RKS	Pit Closure Date: 3-17-99 Pit Closed By: ISIEL Remarks: Excavated P.L to 12, took Pid Sample, Closed P.L.



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KD 108	945199
MTR CODE SITE NAME:	70473	N/A
SAMPLE DATE TIME (Hrs):	5-17-94	1300
SAMPLED BY:		N/A
DATE OF TPH EXT. ANAL.:	5-18-94	5 18/94
DATE OF BTEX EXT. ANAL.:	5/23/94	5127194
TYPE DESCRIPTION:	٧L	Brown/ gray Course sand

REMARKS	:
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RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS				
CAPANEL			DF	0	M(g)	V(ml)	
BENZENE	40.12	MG/KG	5				
TOLUENE	1.5	MG/KG	5				
ETHYL BENZENE	1.1	MG/KG	5				
TOTAL XYLENES	13	MG/KG	5				
TOTAL BTEX	1le	MG/KG					
TPH (418.1)	474	MG/KG			2.67	28	
HEADSPACE PID	595	PPM	Part the effect of the effect of the state				
PERCENT SOLIDS	93,7	%					

-- TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020 --

- I LLI IR DA CLY MODING ALOT AND DATE OF	
The Surrogate Recovery was at 1.25 % for this sam	ple All QA/QC was acceptable.
Narrative: ATI results attached, Surrogate	recover was outside
ATI OC limits due 0 to	matria interperence.
DF = Dilution Factor Used	
Approved By:	Date:



ATI I.D. 405389

June 2, 1994

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On 05/20/94, 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.

Letitia Krakowski, Ph.D.

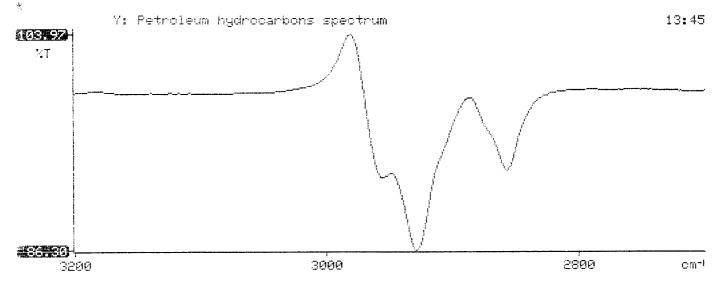
Project Manager

MR: jd

Enclosure

H. Mitchell Rubenstein, Ph.D. Laboratory Manager

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Test Method for
    Oil and Grease and Petroleum Hydrocarbons
                                         *
                                         ^{*}
              in Water and Soil
                                         *
         Perkin-Elmer Model 1600 FT-IR
              Analysis Report
94/05/18 13:45
Sample identification 945199
*
  Initial mass of sample, g
 Volume of sample after extraction, ml
*
28.000
 Petroleum hydrocarbons, ppm
474.278
 Net absorbance of hydrocarbons (2930 cm-1)
0.061
4
*
```





GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)

CLIENT

: EL PASO NATURAL GAS CO. ATI I.D.: 405389

PROJECT #

: 24324

PROJECT NAME : PIT CLOSURE

SAMPLE			DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
07	945198	NON-AQ	05/17/94	05/23/94	05/26/94	1
08	945199	NON-AQ	05/17/94	05/23/94	05/27/94	5
09	945200	NON-AQ	05/17/94	05/23/94	05/26/94	1
PARAMI	ETER		UNITS	07	08	09
BENZENE			MG/KG		<0.12	<0.025
TOLUE	1E		MG/KG		1.5	<0.025
ETHYLI	BENZENE		MG/KG		1.1	<0.025
TOTAL XYLENES			MG/KG	<0.025	13	<0.025
SURROGATE:						
BROMO	FLUOROBENZENE	(%)		84	125*	86

^{*}OUTSIDE ATI QUALITY CONTROL LIMITS DUE TO MATRIX INTERFERENCE

RECORD OF SUBSURFACE EXPLORATION

Well #

Philip Environmental Services Con	p.
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4000 Monroe Road

Borehole Location

Elevation

GWL Depth

Logged By

Farmington, New Mexico 87401 (606) 326-2262 FAX (605) 326-2388 Project Name Project Number Project Location **EPNG Pits**

14509 Phase Elliot

AK 4/19/95

Well Logged By

Drilling Method

M. Donohue, J. O'Keite

Personnel On-Site Contractors On-Site

Air Monitoring Method

Client Personnel On-Site

Drilled By Date/Time Started Date/Time Completed

S.Kelly

			Sample	1 K 6119M5		Depth		,	1000	
Depth	Sample	Sample	Type &	Sample Description	uscs	Lithology		Monito		Drilling Conditions
(Feet)	Number	Interval	Recovery	Classification System: USCS	Symbol	Change	U	nits: NE) ¹ 5/ _s H	& Blow Counts
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 35	15	25.5	11.5	Fine sand at 235.0						,
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	16	385	111'	SAA- w/ mostly fine sand most	1				229	,
40	16	140.5	```	Mort					`	
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Comments:	See page Z.	
		Geologist Signature Janah / Lelly

RECORD OF SUBSURFACE EXPLORATION

Philip Environmental Services Corp. 4000 Monroe Road Project Name Farmington, New Mexico 87401 (606) 326-2262 FAX (605) 326-2388 Elevation

	Borehole #	カヤー
	Well #	
	Page Z	of Z
EPNG Pits		
ET TEO TIES		

011 1

Project Number	14509	Phase	601	
Project Location	Annie L	Elliot.	B#Z	70473
Well Logged By	S.Ke	ly		
Personnel On-Site				
Contractors On-Site				
Client Personnel On-	Site			
Drilling Method				

CGI, PID

Air Monitoring Method

Drilled By Date/Time Started Date/Time Completed 6/19 95

S.Kelly

Borehole Location GWL Depth

Logged By

AK

NK

SK

Depth Sample USCS Lithology Air Monitoring **Drilling Conditions** Depth Type & Sample Description Units: NDU Change & Blow Counts Classification System: USCS Symbol (Feet) Number Interval Recover (feet) RH (inches) 6/19/95 425 1.21 45.5 48.5- .91 0 50.5 53.5-SAND, tan, fine to coase sand with trace fine gravel, med dense damp well graded. 59.5 57 60.0 SKND, ten, fine sand with trace silt BOH- 601 65 30 35

51.5-60.5 sample sent to lab (RTEX & TPH) (SEK 13) Comments:

Geologist Signature



Phase II
Anniel Ellist B#

FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab I/D	
SAMPLE NUMBER:	SEXIV	946914	
MTR CODE SITE NAME:	70473	N/A	
SAMPLE DATE TIME (Hrs):	6-19-95		
SAMPLED BY:	N/A		
DATE OF TPH EXT. ANAL.:	6-21-95	6-21-95	
DATE OF BTEX EXT. ANAL.:	6-22.95	4-22-95	
TYPE DESCRIPTION:	V G	light Brown coarse sand	

REMARKS:	 		

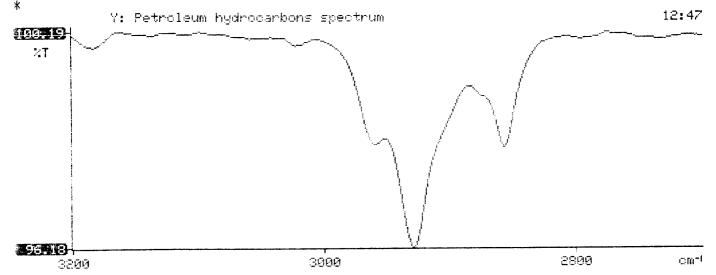
RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
ranameren.			DF	Q	M(g)	V(mi)
BENZENE	₹0.02S	MG/KG	1			
TOLUENE	۲۵۰۵۶ ۲۵۰۵۶	MG/KG	,			
ETHYL BENZENE	20.025	MG/KG	,			
TOTAL XYLENES	40.025	MG/KG	,			
TOTAL BTEX	20.10	MG/KG				
TPH (418.1)	59.2	MG/KG			1.98	28
HEADSPACE PID	14	PPM			111	
PERCENT SOLIDS	97.7	%				

The Surrogate Recovery was at	9 6	% for this sample	All QA/QC was acceptable.	
Varrative:	attached			
OF = Dilution Factor Used			- / /	

Approved By: ____

Test Method for Oil and Grease and Petroleum Hydrocarbons * * in Water and Soil * * * * Perkin-Elmer Model 1600 FT-IR Analysis Report ****************** 95/06/21 12:47 Sample identification 946914 * Initial mass of sample, g Volume of sample after extraction, ml 28,000 Petroleum hydrocarbons, ppm Net absorbance of hydrocarbons (2930 cm-1) 0.017 * *





ATI I.D. 506401

June 27, 1995

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

Project Name/Number: PIT CLOSURE/PHASE II 24324

Attention: John Lambdin

On 06/22/95, 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.

Kimberly D. McNeill Project Manager

MR:gsm

Enclosure

H. Mitchell Rubenstein, Ph.D.

Laboratory Manager



GAS CHROMATOGRAPHY RESULTS

TEST

: BTEX (EPA 8020)

CLIENT

: EL PASO NATURAL GAS CO. ATI I.D.: 506401

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE/PHASE II

SAMPL ID. #		MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	946912	NON-AQ	06/19/95	06/22/95	06/22/95	1
02	946913	NON-AQ	06/19/95	06/22/95	06/22/95	1
03	946914	QA-NON	06/19/95	06/22/95	06/22/95	1
PARAM	ETER		UNITS	01	02	03
BENZE			MG/KG	<0.025	<0.025	<0.025
TOLUE			MG/KG	<0.025	<0.025	<0.025
	BENZENE		MG/KG	<0.025	<0.025	<0.025
	L XYLENES		MG/KG	<0.025	<0.025	<0.025
	OGATE:			98	93	96