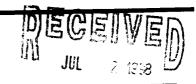
# PIT CLOSURE

Dit 2 i 1998

E.M. HARTMAN #1 Meter/Line ID - 90311



SITE DETAILS

Legals - Twn: 29 NMOCD Hazard Ranking: 10

] **Rng:** 11

**Operator:** DUGAN PRODUCTION CORP

Sec: 13

Unit: I

Land Type: 4 - Fee

Pit Closure Date: 09/08/94

#### RATIONALE FOR RISK-BASED CLOSURE:

The above mentioned production pit was assessed and ranked according to the criteria in the New Mexico Conservation Division's Unlined Surface Impoundment Closure Guidelines.

The primary source, discharge to the pit, has been removed. There has been no discharge to the production pit for at least five years and the pit has been closed for at least three years.

The production pit has been remediated to the practical extent of the trackhoe or to the top of bedrock. Initial laboratory analysis has indicated that the soil remaining at the bottom of the excavation is above standards based on the hazard ranking score. Contaminated soil was removed and transported to an approved landfarm for disposal. The initial excavation was backfilled with clean soil and graded in a manner to divert precipitation away from the excavated area. Any rainfall that does infiltrate the ground surface must migrate through clean backfill before reaching any residual hydrocarbons remaining in the soil. Therefore, further mobility of residual hydrocarbons is unlikely.

Since the soil samples from the initial excavation were above standards, a test boring was drilled and a sample was collected to evaluate the vertical extent of impact to soils. Test boring sample results indicated soils below standards beneath the original excavation.

El Paso Field Services Company (EPFS) requests closure of the above mentioned production pit location for the following reasons:

- Discharge to the pit has not occurred in over five years and the pit has been closed for over
- The bulk of the impacted soil was removed during the initial excavation.
- The excavation was backfilled with clean soil and graded to divert precipitation away from the excavation area.
- All source material has been removed from the ground surface, eliminating potential direct contact with livestock and the general public.
- Groundwater was not encountered in the initial excavation or test boring; therefore, impact to groundwater is unlikely.
- Soil samples collected beneath the initial excavation were below standards.
- No potential receptors are within 1,000 feet of the site.
- Residual hydrocarbons remaining in the soil at the bottom of the initial excavation will environment. the minimal risk to time with naturally degrade

## FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: 9031 Location: E.M. HARTMAN #    Operator #: 1862 Operator Name: Dusan Prop. P/L District: BloomRELO  Coordinates: Letter: I Section 13 Township: 29 Range: 11  Or Latitude Longitude  Pit Type: Dehydrator Location Drip: X Line Drip: Other:  Site Assessment Date: 5.20.94 Area: 10 Run: 93
ASSESSMENT	NMOCD Zone:  (From NMOCD  Maps)  Inside  Outside  Outside  Depth to Groundwater  Less Than 50 Feet (20 points)  Feet (20 points)  Greater Than 100 Ft (0 points)  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?  Horizontal Distance to Surface Water Body  Land Type:  BLM  (1)  State  (2)  Fee  (3)  Indian  (2)  (3)  Wellhead Protection Area:  Is it less than 200 ft from a private domestic water source?  (1) YES (20 points)  (2) NO (0 points)
S	Less Than 200 Ft (20 points)
REMARKS	Remarks: ONLY PIT ON LOCATION. PIT IS DRY. LOCATION 13 N.E. OF BLOOMFIELD AND NORTH OF CYTIZENS DITCH. REDUNE AND TOPO CONFIRMS LOCATION IS INSIDE THE V.Z.  DIG FHACE.
	(523190) 04/08/94

# PHASE I EXCAVATION

# FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 90311 Location: E.M. HArtman #1  Coordinates: Letter: T Section 13 Township: 29 Range: 11  Or Latitude Longitude  Date Started: 9.8.94 Run: 10 93
FIELD OBSERVATIONS	Sample Number(s): 121 Feet  Sample Depth: 121 Feet  Final PID Reading 428 PID Reading Depth 12 Feet  Yes No  Groundwater Encountered
CLOSITRE	Remediation Method:  Excavation  Onsite Bioremediation  Backfill Pit Without Excavation  Soil Disposition:  Envirotech  Other Facility  Name:  Pit Closure Date: 9-8-94  Pit Closed By: B.E.T.
DEWARKS	Remarks: Some Like markers. Started Remediating to 12'  Soil Light gray with A smell. At 12' Soil Light gray with  A smell.  Signature of Specialist: Lelly Rediffe.  (SP3181) 03/16/80



# FIELD SERVICES LABORATORY ANALYTICAL REPORT

# PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

	SAMPLE I	DENTIFICAT	ON			
				1.15		
Г	Field I	<u> </u>		Lab ID		
SAMPLE NUMBER:	XP 224		9460			
MTR CODE   SITE NAME:	90311			N/A		
SAMPLE DATE   TIME (Hrs):	9-8-94			40		
SAMPLED BY:		N/A		2011		
DATE OF TPH EXT.   ANAL.:	9/13/9	4		194		
DATE OF BTEX EXT.   ANAL.:	9/14/9	4	9/14	\ \ \		
TYPE   DESCRIPTION:	V C		Brown !	bory So	and	
REMARKS:						
		RESULTS				
PARAMETER	RESULT	UNITS		QUALIF	IERS M(g)	V(ml)
		The state of the s	DF	<u> </u>	I Wild?	V (11, 15, 15, 15, 15, 15, 15, 15, 15, 15,
BENZENE	40.13	MG/KG	5			
TOLUENE	ده.۱۵	MG/KG	5	<u> </u>		
ETHYL BENZENE	1.4	MG/KG	S			
TOTAL XYLENES	24	MG/KG	5		_	
TOTAL BTEX	25.7	MG/KG				
	1190 1192.5 h	1191694			2.12	28
TPH (418.1)	11520 M	IVIG/KG	<del>                                     </del>	<del>                                     </del>		
HEADSPACE PID	428	PPM		<del> </del>		
PERCENT SOLIDS	91.0	%				
	TPH is by EPA Method	418.1 and BTEX is by E	PA Method 8020	 C was acce	ntable.	
The Surrogate Recovery was at	155	_% for this sample	e All QA/Q	C Was acce	ptabio.	
Narrative: ATI Results Atta	alud. Surve	sente Reco.	<u> ۱۵۰۳ ۳۰</u> ۳	· outsi	Do AT	101
limite are to	malrix	krevenu	<del>,                                    </del>			
DF = Dilution Factor Used					lau	
Approved By:			Date:	10/23/	19 Y	

```
********************************
                 Test Method for
     Oil and Grease and Petroleum Hydrocarbons
                in Water and Soil
          Perkin-Elmer Model 1600 FT-IR
                 Analysis Report
******************
94/09/13
         14:07
  Sample identification
946079
*
  Initial mass of sample, g
  Volume of sample after extraction, ml
  Petroleum hydrocarbons, ppm
1192.520
  Net absorbance of hydrocarbons (2930 cm-1)
0.164
*
*
                                                             14:07
         Y: Petroleum hydrocarbons spectrum
99.96
  %T
```

3000

2800

 $cm^{-1}$ 

68.37

3200



ATI I.D. 409354

September 22, 1994

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On 09/14/94, 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:jt

Enclosure



#### GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)

CLIENT

: EL PASO NATURAL GAS CO. ATI I.D.: 409354

PROJECT #

: 24324

PROJECT NAME : PIT CLOSURE

SAMPL ID. #		MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
04	946078	NON-AQ	09/08/94	09/14/94	09/16/94	1
05	946079	PA-NON	09/08/94	09/14/94	09/16/94	5
06	946080	QA-NON	09/08/94	09/14/94	09/16/94	10
PARAM	ETER		UNITS	04	05	06
BENZE	NE		MG/KG	<0.025	<0.13	<0.25
TOLUE	NE		MG/KG	0.032	<0.13	<0.25
	BENZENE		MG/KG	<0.025	1.4	0.73
t	XYLENES		MG/KG	<0.025	24	8.6
	OGATE:			103	157*	90
BROMO	FLUOROBENZENE	(%)		103	137	70

<sup>\*</sup>OUTSIDE ATI QUALITY CONTROL LIMITS DUE TO MATRIX INTERFERENCE

# PHASE II

#### RECORD OF SUBSURFACE EXPLORATION

Philip Environmental Services Corp.

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

Elevation
Borehole Location
GWL Depth
Logged By
Drilled By
Date/Time Started
Date/Time Completed 6/28/95, 1500

		_				
	Well #					
	Page .		of			
3 Pits				_		/
509	Phase		601	60	20	
n. H	artma	n d	¥ / -	90	311	

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

Drilling Method 484 ID HSP

Air Monitoring Method CGI, PID

Project Name

Project Number

**Project Location** 

			Sample			Depth	-			
Depth	Sample	Sample	Type &	Sample Description	USCS Symbol	Lithology Change	Air	Monitor	ring	Drilling Conditions & Blow Counts
(Feet)	Number	Interval	Recovery (inches)	Classification System: USCS	Symbol	(feet)	BZ	BH	 !H_	5 4 5 6 1 1
				Backfill to 12!						
5 - - - - 10										
				Silty SAND, light brown, 10-20% Silt, trace clay fine sand, loose, damp.					31	1310
20	1	j	١؞١	Fine sand, lease, damp.						1320
	2	20-22	20 -05	ĺ					19	1330 VERY POOF
	3	25-27		SAA, less clay					96	barely enough for headsy acc
30	4	30- 32	20'	BoH-321					0	
35		•	. *			*				
			<u> </u>		<u> </u>			<del></del>	46	128175

Comments: 30'37' sample (SEK 76) sent to lah. (BTEX a TPH) sample was bagged and iced prior to being Pap in jar. BH

grouted to surface.

Geologist Signature

Phase II Drilling

# FIELD SERVICES LABORATORY

### ANALYTICAL REPORT

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

### SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	SEK 26	946935
MTR CODE   SITE NAME:	90311	N/A
SAMPLE DATE   TIME (Hrs):	6-28-95	1340
SAMPLED BY:		N/A
DATE OF TPH EXT.   ANAL.:	7-4-95	7-4-95
DATE OF BTEX EXT.   ANAL.:	7.4-95	7-7-95
TYPE   DESCRIPTION:	V G	Brown fine smal

#### **RESULTS**

DADAMETER	RESULT UNITS		QUALIFIERS					
PARAMETER.			DF		V(ml)			
BENZENE	40.075	MG/KG						
TOLUENE	۲0.025	MG/KG						
ETHYL BENZENE	20.025	MG/KG						
TOTAL XYLENES	40.025	MG/KG				_		
TOTAL BTEX	40.10	MG/KG						
TPH (418.1)	86.8	MG/KG			1.98	28		
HEADSPACE PID	0	PPM						
PERCENT SOLIDS	92.3	%						

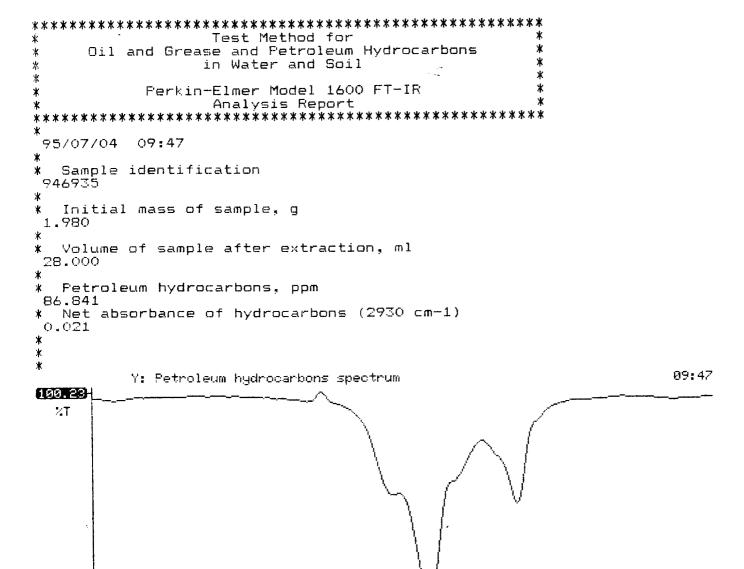
	TPH is by EPA Meth	od 418.1 and BTEX is by EPA	Method 8020	
The Surrogate Recovery was at	100	% for this sample	All QA/QC was acceptable.	
Narrative:				
pri Pisulte attached	····			

DF = Dilution Factor Used

Approved By:



Date: 7/17/95



3000

2800

 $cm^{-1}$ 

-95.43

3200



ATI I.D. 507308

July 13, 1995

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

Project Name/Number: PIT CLOSURE/PHASE II 38822

Attention: John Lambdin

On 07/06/95, 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

25 Maleil

MR:gsm

Enclosure

H. Mitchell Rubenstein, Ph.D

Laboratory Manager



### GAS CHROMATOGRAPHY RESULTS

TEST

: BTEX (EPA 8020)

CLIENT

: EL PASO NATURAL GAS COMPANY ATI I.D.: 507308

PROJECT #

: 38822

PROJECT NAME : PIT CLOSURE/PHASE II

SAMPL		MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	946934	NON-AQ	06/28/95	07/06/95	07/07/95	1
02	943635	NON-AQ	06/28/95	07/06/95	07/07/95	1
03	946936	NON-AQ	06/28/95	07/06/95	07/07/95	1
PARAM	METER		UNITS	01	C <b>2</b>	03
BENZE		<del></del>	MG/KG	<0.025	<0.025	0.063
TOLUE			MG/KG	<0.025	<0.025	1.1
	LBENZENE		MG/KG	<0.025	<0.025	0.22
	L XYLENES		MG/KG	<0.025	<0.025	1.5
,						
SURRO	GATE:					
BROMO	OFLUOROBENZENE (%	;)		107	100	96