EL PASO FIELD SERVICES
PRODUCTION PIT CLOSURE

DEPUTY OIL & GAS INSPECTOR

DEC 2 1 1998

RECEIVED
JUL 2 1999
OIL CON. DIV.
DIST. 3

HAMMOND #8
Meter/Line ID - 93189

SITE DETAILS

Legals - Twn: 27 **Rng:** 08 **Sec:** 25 **Unit:** I
NMOCD Hazard Ranking: 40 **Land Type:** 2 - Federal
Operator: WESTERN OIL & MINERAL LTD **Pit Closure Date:** 06/03/94

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 three years.
- 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 naturally degrade in time with minimal risk to the environment.

J: 18954.rbc

FIELD PIT SITE ASSESSMENT FORM

GENERAL

Meter: 93189 Location: HAMMOND No. 8
Operator #: 9615 Operator Name: Western D.L. & Minerals P/L District: Blanco
Coordinates: Letter: I Section 25 Township: 27 Range: 8
Or Latitude _____ Longitude _____
Pit Type: Dehydrator ___ Location Drip: ✓ Line Drip: ___ Other: _____
Site Assessment Date: 5/19/94 Area: 03 Run: 72

SITE ASSESSMENT

NMOCD Zone: (From NMOCD Maps)
Inside ☒ (1)
Outside ☐ (2)

Land Type:
BLM ☒ (1)
State ☐ (2)
Fee ☐ (3)
Indian _____

Depth to Groundwater
Less Than 50 Feet (20 points) ☒ (1)
50 Ft to 99 Ft (10 points) ☐ (2)
Greater Than 100 Ft (0 points) ☐ (3)

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) ☒ (1)
200 Ft to 1000 Ft (10 points) ☐ (2)
Greater Than 1000 Ft (0 points) ☐ (3)
Name of Surface Water Body Largo Canyon
(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 - Inside
Pit Will Close. Pit Dry

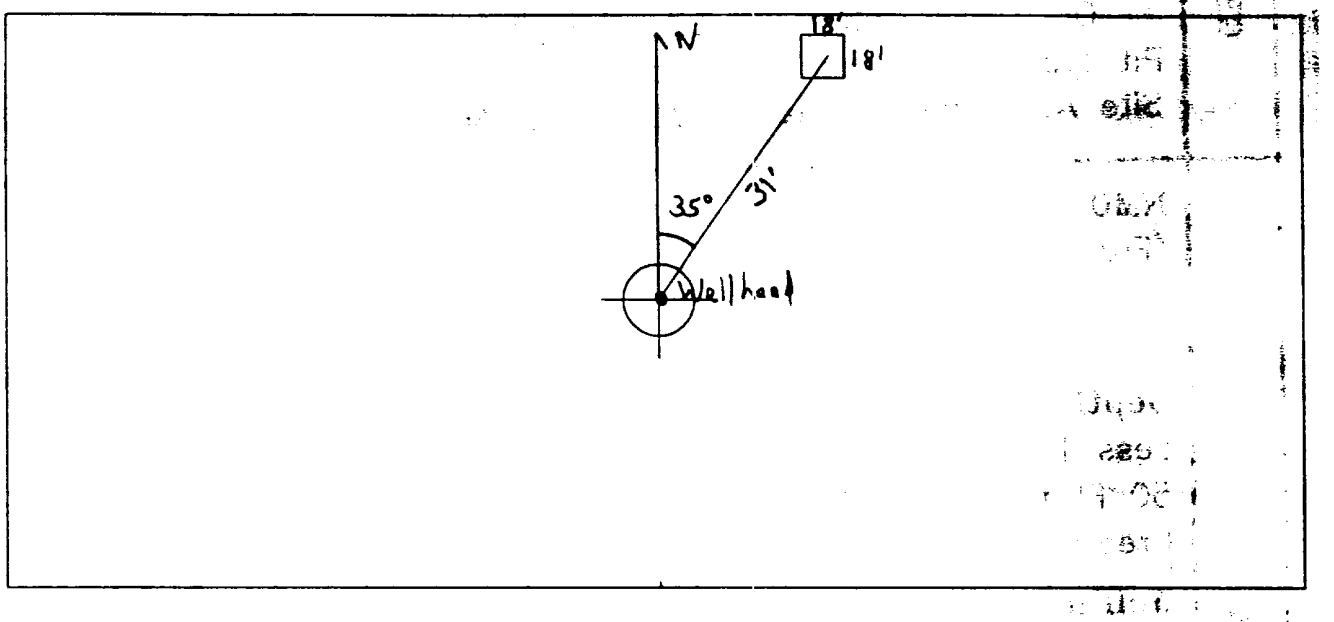
DIG + HAUL

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 35° Footage from Wellhead 31'

b) Length : 18' Width : 18' Depth : 4'



Remarks :

Pictures @ 1248 (21-24)

Dump Truck

REMARKS

Completed By:

Cory Chase
Signature

5/19/94
Date

PHASE I EXCAVATION

FIEI PIT REMEDIATION/CLOSU ` FORM

GENERAL

Meter: 93189 Location: Hammond #8

Coordinates: Letter: I Section 25 Township: 27 Range: 8

Or Latitude _____ Longitude _____

Date Started : 6-3-94 Area: 03 Run: 72

FIELD OBSERVATIONS

Sample Number(s): KD99 _____ _____ _____

Sample Depth: 9 Feet

Final PID Reading 477 ppm PID Reading Depth 9' Feet

Yes No

Groundwater Encountered ☐ (1) ☒ (2) Approximate Depth _____ Feet

CLOSURE

Remediation Method :

Excavation ☒ (1) Approx. Cubic Yards 50

Onsite Bioremediation ☐ (2)

Backfill Pit Without Excavation ☐ (3)

Soil Disposition:

Envirotech ☐ (1) ☒ (3) Tierra

Other Facility ☐ (2) Name: _____

Pit Closure Date: 6-3-94 Pit Closed By: BEI

REMARKS

Remarks : Excavated Pit to 9', Hit Sandstone, took PID Sample closed pit.

Signature of Specialist: Henry Denew

(SP3191) 04/07/9

40

El Paso Natural Gas Company

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KD99	945352
MTR CODE | SITE NAME:	93189	N/A
SAMPLE DATE | TIME (Hrs):	6-3-94	1040
SAMPLED BY:	N/A	
DATE OF TPH EXT. | ANAL.:	6-6-94	6/6/94
DATE OF BTEX EXT. | ANAL.:	6/9/94	6/10/94
TYPE | DESCRIPTION:	VC	Brown/grey course sand

REMARKS: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	<0.62	MG/KG	25			
TOLUENE	<0.62	MG/KG	25			
ETHYL BENZENE	2.5	MG/KG	25			
TOTAL XYLENES	32	MG/KG	25			
TOTAL BTEX	36	MG/KG				
TPH (418.1) 761	~~760~~ ND	7/10/94 MG/KG			2.11	28
HEADSPACE PID	477	PPM				
PERCENT SOLIDS	92.2	%				

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

The Surrogate Recovery was at 193 % for this sample All QA/QC was acceptable.

Narrative: ATI results attached. Surrogate recovery was outside ATI QC limits due to matrix interference.

DF = Dilution Factor Used

Approved By: John Fowler Date: 7/11/94

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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                      *
**********************************************************

 94/06/06  16:25

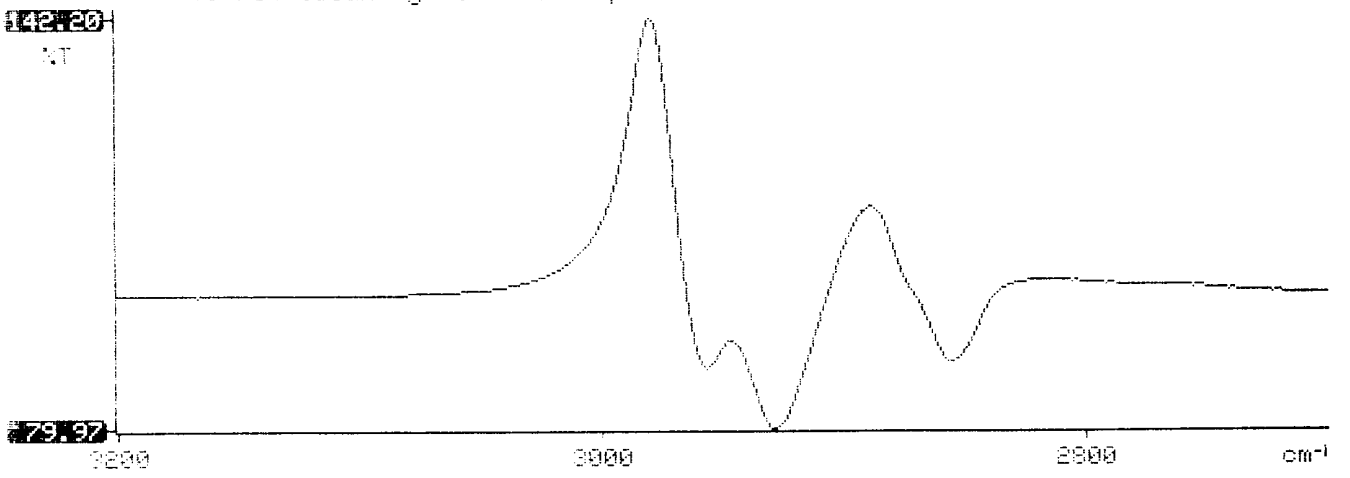
  Sample identification
 945352

  Initial mass of sample, g
 2.110

  Volume of sample after extraction, ml
 28.000

  Petroleum hydrocarbons, ppm
 761.059
  Net absorbance of hydrocarbons (2930 cm-1)
 0.099
```

Y: Petroleum hydrocarbons spectrum 16:25

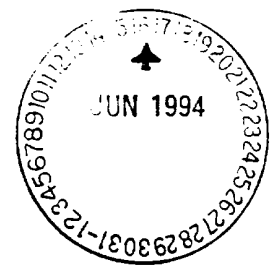


Analytical Technologies, Inc.

2709-D Pan American Freeway, NE Albuquerque, NM 87107
Phone (505) 344-3777 FAX (505) 344-4413

ATI I.D. **406331**

June 15, 1994



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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On **06/08/94**, 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

H. Mitchell Rubenstein, Ph.D.
Laboratory Manager

MR:jd

Enclosure

Analytical Technologies, Inc.

GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)
CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 406331
PROJECT # : 24324
PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
10	945352	NON-AQ	06/03/94	06/09/94	06/10/94	25
11	945353	NON-AQ	06/03/94	06/09/94	06/10/94	20
12	945359	NON-AQ	06/06/94	06/09/94	06/11/94	1

PARAMETER	UNITS	10	11	12
BENZENE	MG/KG	<0.62	<0.50	<0.025
TOLUENE	MG/KG	<0.62	<0.50	<0.025
ETHYLBENZENE	MG/KG	2.5	2.5	<0.025
TOTAL XYLENES	MG/KG	32	33	0.066
SURROGATE:				
BROMOFLUOROBENZENE (%)		193*	188*	99

*OUTSIDE ATI QUALITY CONTROL LIMITS DUE TO MATRIX INTERFERENCE

PHASE II

RECORD OF SUBSURFACE EXPLORATION

Borehole # BH-1
Well #
Page 1 of 1

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

Project Name EPNG PITS
Project Number 14509 Phase 6000 77
Project Location Hammond No. 8 93189

Elevation
Borehole Location QI- S25- T27- R8
GWL Depth
Logged By CM CHANCE
Drilled By 9/19/95 ~~K Padilla~~ CMC F. Rivera
Date/Time Started 9/19/95 - 1258
Date/Time Completed 9/19/95 - 1410

Well Logged By CM Chance
Personnel On-Site K Padilla, F. Rivera, J. Johnson
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)	Air Monitoring Units: PPM BZ	BH	S HS	Drilling Conditions & Blow Counts
0				Backfill to 9'						
5										
10										
15	1	15-17	18"	Blk silty SAND, vf-f sand, med dense, dry, odor			20	90	580/1115	1310 hr
20	2	20-21	14"	Tan SAND, vF-F sand, dense, sl moist			8	126	1028/1084	1319
25	3	25-26	8"	lt Grey SANDSTONE, vF sand, poorly cemented			15	19	19/8	1328
				TD 26'						
30										
35										
40										

Comments: CMC 116 (25-26') sent to lab (BTEX, TPH). Sample bagged iced prior to containerizing. BH grouted to surface

Geologist Signature Cory Chance

El Paso Natural Gas Company

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	CMC116	947499
MTR CODE | SITE NAME:	93189	Hammond No. 8
SAMPLE DATE | TIME (Hrs):	09-19-95	1328
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. | ANAL.:	9-20-95	
DATE OF BTEX EXT. | ANAL.:	9/20/95	9/22/95
TYPE | DESCRIPTION:	VG	Light brown sand and sand stone

Field Remarks: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS DF	Q	M(g)	V(ml)
BENZENE	< 0.5	MG/KG				
TOLUENE	< 0.5	MG/KG				
ETHYL BENZENE	< 0.5	MG/KG				
TOTAL XYLENES	< 1.5	MG/KG				
TOTAL BTEX	< 3	MG/KG				
TPH (418.1)	<10	MG/KG			1.96	28
HEADSPACE PID	8	PPM				
PERCENT SOLIDS	91.7	%				

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

The Surrogate Recovery was at 94% for this sample All QA/QC was acceptable.

Narrative:

DF = Dilution Factor Used

Approved By: _____ Date: 9-26-95

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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                     *
**********************************************************
*
 95/09/20  15:11
*
*  Sample identification
 947499
*
*  Initial mass of sample, g
 1.960
*
*  Volume of sample after extraction, ml
 28.000
*
*  Petroleum hydrocarbons, ppm
 0.275
*  Net absorbance of hydrocarbons (2930 cm-1)
 0.010
*
*
*
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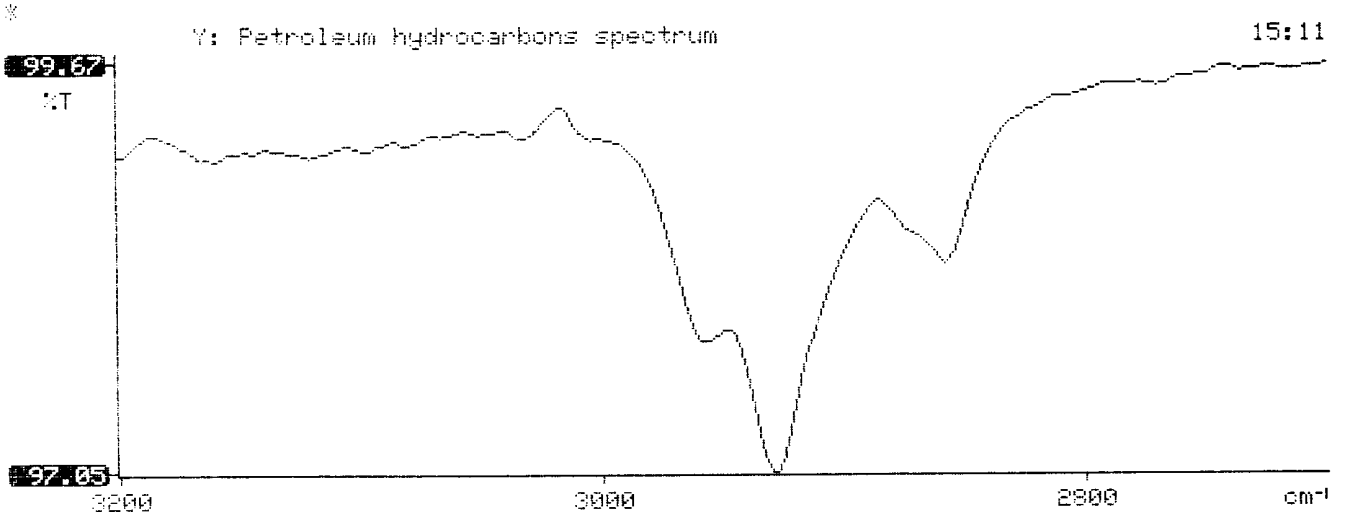

BTEX SOIL SAMPLE WORKSHEET

File	947499	**Date Printed**	9/25/95
Soil Mass (g)	5.03	**Multiplier (L/g)**	0.00099
Extraction vol. (mL)	10	**DF (Analytical)**	200
Shot Volume (uL)	50	**DF (Report)**	0.19881

			Det. Limit
Benzene (ug/L)	0.12	**Benzene (mg/Kg):**	**0.024**	0.497
Toluene (ug/L)	0.18	**Toluene (mg/Kg):**	**0.036**	0.497
Ethylbenzene (ug/L)	0.15	**Ethylbenzene (mg/Kg):**	**0.030**	0.497
p & m-xylene (ug/L)	0.62	p & m-xylene (mg/Kg):	0.123	0.994
o-xylene (ug/L)	0.16	o-xylene (mg/Kg):	0.032	0.497
		Total xylenes (mg/Kg):	**0.155**	1.491
		Total BTEX (mg/Kg):	**0.245**	

EL PASO NATURAL GAS
EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM000\092295-0.015
Method : C:\LABQUEST\METHODS\9000.MET
Sample ID : 947499,5.03G,50U
Acquired : Sep 22, 1995 18:56:23
Printed : Sep 22, 1995 19:26:47
User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	8.040	46298	0.1237
a,a,a-TFT	10.407	8071172	92.2569
TOLUENE	12.817	65975	0.1813
ETHYLBENZENE	17.167	51208	0.1521
M,P-XYLENES	17.540	248882	0.6204
O-XYLENE	18.717	53010	0.1619
BFB	19.830	51408832	94.3141