EL PASO FIELD SERVICES
PRODUCTION PIT CLOSURE

Denny G. Foust
DEPUTY OIL & GAS INSPECTOR
DEC 21 1998

RECEIVED
JUL 2 1998
OIL CON. DIV.
DIST. 3

TIBBAR FED #4
Meter/Line ID - 75641

SITE DETAILS

Legals - Twn: 26 **Rng:** 09 **Sec:** 25 **Unit:** H
NMOCD Hazard Ranking: 30 **Land Type:** 4 - Fee
Operator: MERIDIAN OIL INC **Pit Closure Date:** 08/05/94

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.

FIELD PIT SITE ASSESSMENT FORM

2

GENERAL

Meter: 75641 Location: Tibbar Fed No. 4
Operator #: 2999 Operator Name: Meridian P/L District: Ballard
Coordinates: Letter: H Section 25 Township: 26N Range: 9W
Or Latitude _____ Longitude _____
Pit Type: Dehydrator ___ Location Drip: X Line Drip: ___ Other: _____
Site Assessment Date: 6-24-94 Area: 11 Run: 82

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 Blanco Wash
(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: 30 **POINTS**

REMARKS

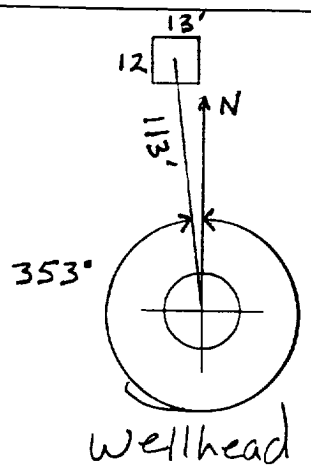
Remarks : Three pits on location. Drip pit is dry
Inside V.Z. on Redline of Topo

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 353 Footage from Wellhead 113

b) Length : 13 Width : 12 Depth : 3



REMARKS

Remarks :

Photos- 1058 hrs.

End dump

Completed By:

Signature

6-24-94

Date

PHASE I
EXCAVATION

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 75641 Location: Tibbar Fed #4

Coordinates: Letter: H Section 25 Township: 26N Range: 9W

Or Latitude _____ Longitude _____

Date Started : 8/5/94 Run: 11 82

FIELD OBSERVATIONS

Sample Number(s): KD193 _____ _____ _____

Sample Depth: 12' Feet

Final PID Reading 257 ppm PID Reading Depth 12' Feet

	Yes	No
Groundwater Encountered	☐	☒

Approximate Depth _____ Feet

CLOSURE

Remediation Method :

Excavation ☒ Approx. Cubic Yards 30

Onsite Bioremediation ☐

Backfill Pit Without Excavation ☐

Soil Disposition:

Envirotech ☒ ☐ Tierra

Other Facility ☐ Name: _____

Pit Closure Date: 8/5/94 Pit Closed By: BEI

REMARKS

Remarks : Excavated pit to 12', took PID Sample, Closed pit.

Signature of Specialist: Tony Dean

El Paso Natural Gas Company

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KD 193	945854
MTR CODE | SITE NAME:	75641	N/A
SAMPLE DATE | TIME (Hrs):	8-5-94	1340
SAMPLED BY:	N/A	
DATE OF TPH EXT. | ANAL.:	8/9/94	8/9/94
DATE OF BTEX EXT. | ANAL.:	8/11/94	8/11/94
TYPE | DESCRIPTION:	VC	Brown fine sand

REMARKS: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	<0.025	MG/KG	1			
TOLUENE	<0.025	MG/KG	1			
ETHYL BENZENE	1.1	MG/KG	1			
TOTAL XYLENES	13	MG/KG	1			
TOTAL BTEX	14	MG/KG				
TPH (418.1)	1160	MG/KG			2.03	28
HEADSPACE PID	257	PPM				
PERCENT SOLIDS	96.5	%				

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

The Surrogate Recovery was at 113 % for this sample All QA/QC was acceptable.

Narrative: ATI results attached.

DF = Dilution Factor Used

Approved By: _____ Date: 9/2/94

****
Test Method for
Oil and Grease and Petroleum Hydrocarbons
in Water and Soil

Perkin-Elmer Model 1600 FT-IR
Analysis Report
****

[illegible] 14:06

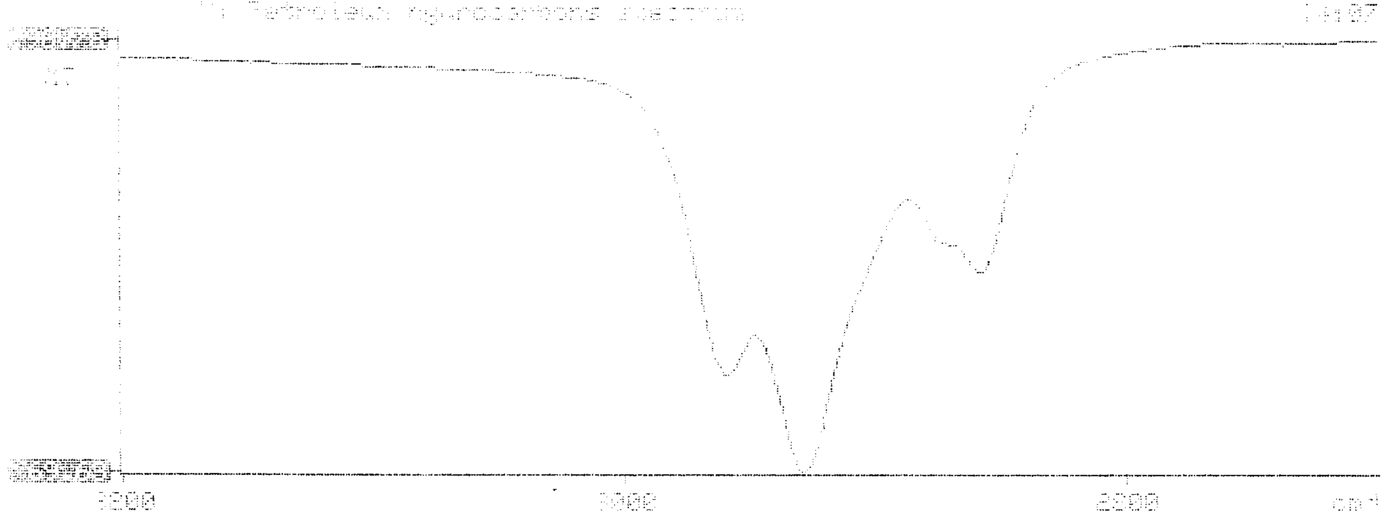
Sample identification
[illegible]

Initial mass of sample, g
[illegible]

Volume of sample after extraction, ml
[illegible]

Petroleum hydrocarbons, ppm
[illegible].995
Abs. absorbance of hydrocarbons (2930 cm-1)
[illegible]

Petroleum hydrocarbons spectrum 14:07



Analytical Technologies, Inc.

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

ATI I.D. **408339**

August 25, 1994

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On **08/10/94**, 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

Analytical Technologies, Inc.

GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)

CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 408339

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
10	945853	NON-AQ	08/05/94	08/11/94	08/11/94	1
11	945854	NON-AQ	08/05/94	08/11/94	08/11/94	1
12	945855	NON-AQ	08/05/94	08/11/94	08/11/94	1

PARAMETER	UNITS	10	11	12
BENZENE	MG/KG	<0.025	<0.025	<0.025
TOLUENE	MG/KG	<0.025	<0.025	<0.025
ETHYLBENZENE	MG/KG	<0.025	1.1	<0.025
TOTAL XYLENES	MG/KG	<0.025	13	<0.025
SURROGATE:				
BROMOFLUOROBENZENE (%)		88	113	84

PHASE II

RECORD OF SUBSURFACE EXPLORATION

JWK 36

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

Borehole # BH-1
Well #
Page 1 of 1

Project Name EPNG Pits
Project Number 14509 Phase 6000.77
Project Location Tibban Fed No. 4 75641

Elevation
Borehole Location T 26N, R9W, S 25, H
GWL Depth
Logged By Jeff W. Kindley
Drilled By G. Suddarth
Date/Time Started 08/19/95 1305
Date/Time Completed 08/19/95 1345

Well Logged By Jeff W. Kindley
Personnel On-Site D. Roberts, T. Long, G. Suddarth
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/BG	Drilling Conditions & Blow Counts
0										
5										
10	1	8-10	1.8/2.0	SW, tan sand, Fine grained medium dense, no odor					0/1	1310 17 blows per Foot
15	2	13-15	1.5/2.0	SW, tan sand, medium grained medium dense, no odor.					0/1	1319 18 blows per Foot
20	3	18-20	1.3/2.0	S.A.A. Boring terminated at 20'					0/1	1324 18 blows per foot
25										
30										
35										
40										

Comments: Tibban 4 has a Fence and berm around pit. In addition an above ground storage tank is located above the pit. We drilled adjacent (10 feet normal) and downgradient of the pit. The sample was collected at 18 to 20 feet since this would place it below the known contamination level of 12' in the pit

Geologist Signature Jeffrey Kindley

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:	JWK 36	947279
MTR CODE | SITE NAME:	75641	Tibbar Fed. No. 4
SAMPLE DATE | TIME (Hrs):	08/19/95	13:24
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. | ANAL.:	8/21/95	8-21-95
DATE OF BTEX EXT. | ANAL.:	8/23/95	8/23/95
TYPE | DESCRIPTION:	VG	Brown fine sand

Field Remarks: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	< .5	MG/KG				
TOLUENE	< .5	MG/KG				
ETHYL BENZENE	< .5	MG/KG				
TOTAL XYLENES	< 1.5	MG/KG				
TOTAL BTEX	< 3	MG/KG				
TPH (418.1)	30.1 RB 8/23/95	MG/KG			2.04	28
HEADSPACE PID	1	PPM				
PERCENT SOLIDS	98.0	%				

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

The Surrogate Recovery was at 107 % for this sample All QA/QC was acceptable.

Narrative:

DF = Dilution Factor Used

Approved By: _____ Date: 8/28/95

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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                   *
**********************************************************
*
 95/08/21  15:27
*
*  Sample identification
 947279
*
*  Initial mass of sample, g
 2.040
*
*  Volume of sample after extraction, ml
 28.000
*
*  Petroleum hydrocarbons, ppm
 30.054
*  Net absorbance of hydrocarbons (2930 cm-1)
 0.014
*
*
*
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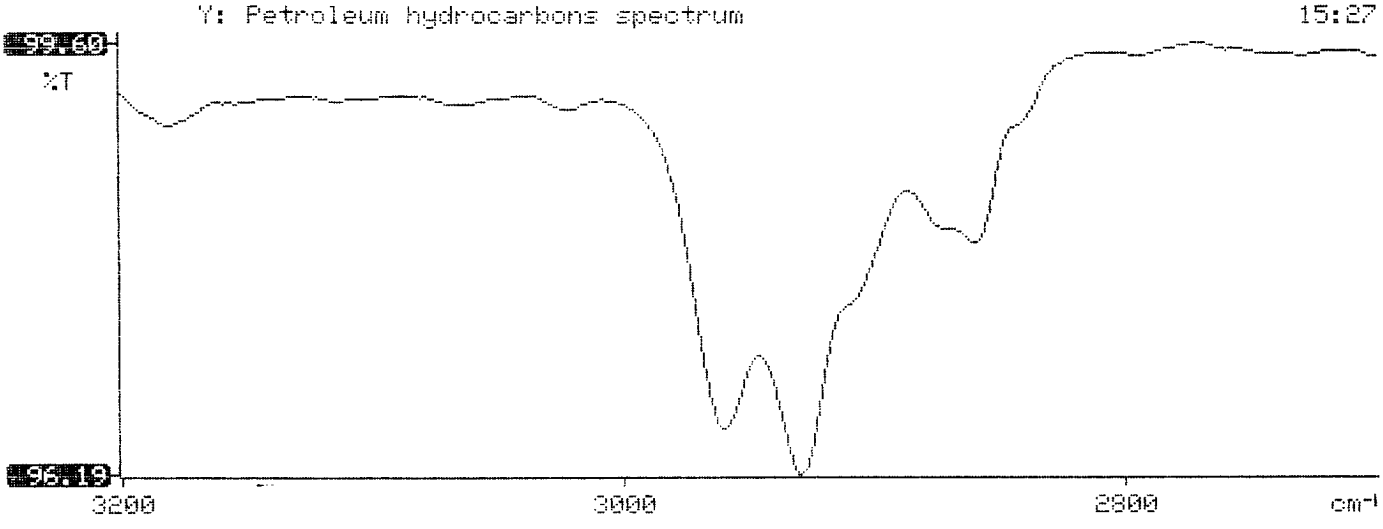

BTEX SOIL SAMPLE WORKSHEET

File :	947279	**Date Printed** :	8/25/95
Soil Mass (g) :	4.99	**Multiplier (L/g)** :	0.00100
Extraction vol. (mL) :	20	**DF (Analytical)** :	200
Shot Volume (uL) :	100	**DF (Report)** :	0.20040

				Det. Limit
Benzene (ug/L) :	0.00	**Benzene (mg/Kg):**	**0.000**	0.501
Toluene (ug/L) :	0.00	**Toluene (mg/Kg):**	**0.000**	0.501
Ethylbenzene (ug/L) :	0.00	**Ethylbenzene (mg/Kg):**	**0.000**	0.501
p & m-xylene (ug/L) :	0.00	p & m-xylene (mg/Kg):	0.000	1.002
o-xylene (ug/L) :	0.00	o-xylene (mg/Kg):	0.000	0.501
		Total xylenes (mg/Kg):	**0.000**	1.503
		Total BTEX (mg/Kg):	**0.000**	

EL PASO NATURAL GAS
EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM001\082395-1.016
Method : C:\LABQUEST\METHODS\9001.MET
Sample ID : 947279,4.99G,100U
Acquired : Aug 24, 1995 01:28:12
Printed : Aug 24, 1995 01:54:26
User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	3.440	0	0.0000
a,a,a TFT	4.910	4654633	89.4955
TOLUENE	6.750	80025	-0.5260
ETHYLBENZENE	10.530	51135	-0.3790
M & P XYLENE	10.860	0	0.0000
O XYLENE	11.943	0	0.0000
BFB	13.423	77130496	107.0756