

Donner & Zust
EL PASO FIELD SERVICES
DEPUTY OIL & GAS INSPECTOR
PRODUCTION PIT CLOSURE

DEC 21 1998

THOMPSON #1A
Meter/Line ID - 74312

RECEIVED
JUL 2 1998

SITE DETAILS

Approved
Legals - Twn: 26 **Rng: 09**
NMOCD Hazard Ranking: 30
Operator: MERIDIAN OIL INC

Sec: 24 **Unit: P**
Land Type: 4 - Fee
Pit Closure Date: 08/08/94

OIL CON. DIV.
DIST. 3

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

GENERAL

Meter: 74312 Location: Thompson No. 1A
 Operator #: 2999 Operator Name: Meridian P/L District: Ballard
 Coordinates: Letter: P Section 24 Township: 26 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

Outside

Land Type:

BLM

State

Fee

Indian

☐ (1)

☐ (2)

☒ (3)

☒ (1)

☐ (2)

Depth to Groundwater

Less Than 50 Feet (20 points)

50 Ft to 99 Ft (10 points)

Greater Than 100 Ft (0 points)

☒ (1)

☐ (2)

☐ (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)

200 Ft to 1000 Ft (10 points)

Greater Than 1000 Ft (0 points)

☒ (1) KGW 6-24-94

☒ (2)

☐ (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

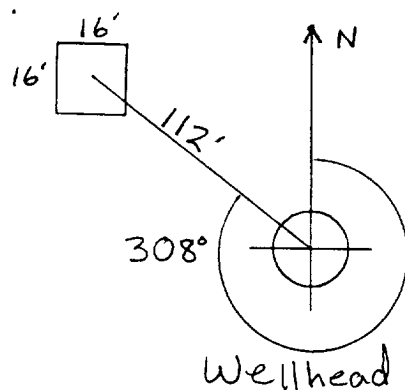
Remarks : one pit on location. Pit is dry

Inside v.z. on Redline & Topo

Don't Know!

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 308 Footage from Wellhead 112
b) Length : 16 Width : 16 Depth : 4



Remarks :

Photos - 1126 hrs

bobtail

Completed By:

[Signature]

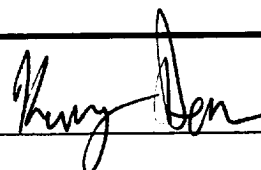
Signature

6-24-94

Date

PHASE I EXCAVATION

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	<p>Meter: <u>74312</u> Location: <u>Thompson #1A</u></p> <p>Coordinates: Letter: <u>P</u> Section <u>24</u> Township: <u>26</u> Range: <u>9W</u></p> <p>Or Latitude _____ Longitude _____</p> <p>Date Started : <u>8/8/94</u> Run: <u>11</u> <u>82</u></p>
FIELD OBSERVATIONS	<p>Sample Number(s): <u>KD 194</u></p> <p>Sample Depth: <u>7'</u> Feet</p> <p>Final PID Reading <u>0 ppm</u> PID Reading Depth <u>7'</u> Feet</p> <p style="text-align: center;">Yes No</p> <p>Groundwater Encountered <input type="checkbox"/> <input checked="" type="checkbox"/> Approximate Depth _____ Feet</p>
CLOSURE	<p>Remediation Method :</p> <p>Excavation <input type="checkbox"/> Approx. Cubic Yards <u>0</u></p> <p>Onsite Bioremediation <input type="checkbox"/></p> <p>Backfill Pit Without Excavation <input checked="" type="checkbox"/></p> <p>Soil Disposition:</p> <p>Envirotech <input type="checkbox"/> Tierra <input type="checkbox"/></p> <p>Other Facility <input type="checkbox"/> Name: _____</p> <p>Pit Closure Date: <u>8/8/94</u> Pit Closed By: <u>BEI</u></p> <p style="text-align: center;"><small>KD 8-8-94</small></p>
REMARKS	<p>Remarks : <u>Dug test hole to 7', took hit sandstone at this</u></p> <p><u>Depth, took PID sample, closed pit</u></p>
	<p>Signature of Specialist: <u></u></p>



FIELD SERVICES LABORATORY
ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	15D 194	945864
MTR CODE SITE NAME:	74312	N/A
SAMPLE DATE TIME (Hrs):	8-8-94	0905
SAMPLED BY:	N/A	
DATE OF TPH EXT. ANAL.:	8-9-94	8-9-94
DATE OF BTEX EXT. ANAL.:	8/11/94	8/12/94
TYPE DESCRIPTION:	VG	Brown/Red fine sand

REMARKS:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	40.025	MG/KG	1			
TOLUENE	0.028	MG/KG	1			
ETHYL BENZENE	40.025	MG/KG	1			
TOTAL XYLENES	0.043	MG/KG	1			
TOTAL BTEX	0.121	MG/KG				
TPH (418.1)	105	MG/KG			2.05	28
HEADSPACE PID	0	PPM				
PERCENT SOLIDS	95.1	%				

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

The Surrogate Recovery was at 84 % for this sample All QA/QC was acceptable.

Narrative:

ATS results attached.

DF = Dilution Factor Used

Approved By:

J.F.

Date:

9/4/94

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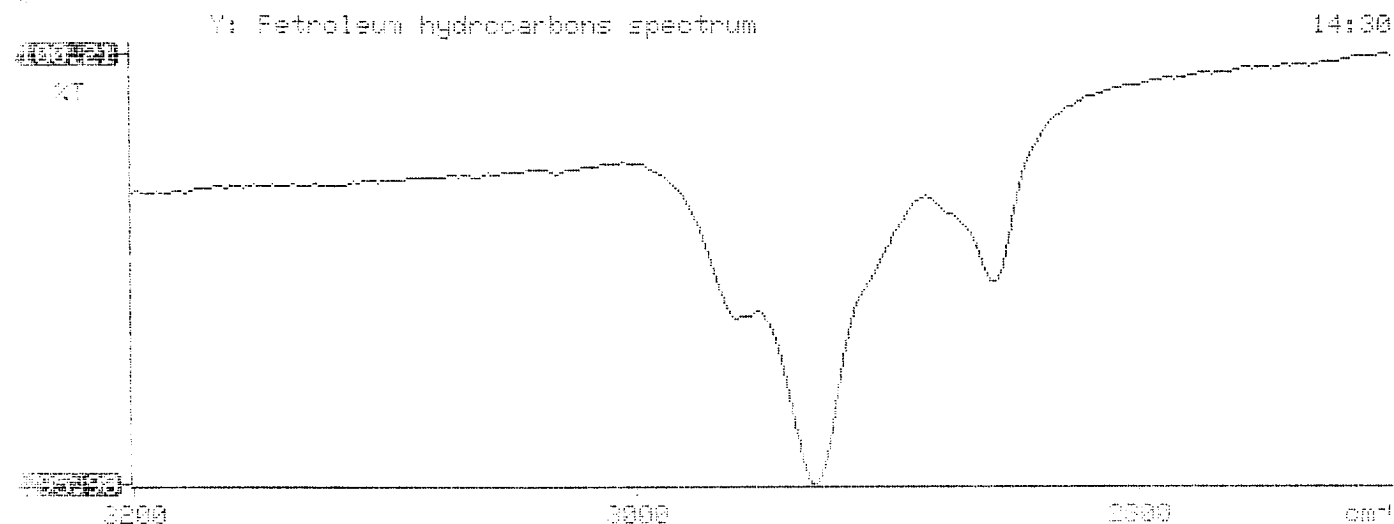
*****
*                               *
*      Test Method for          *
*      Oil and Grease and Petroleum Hydrocarbons      *
*      in Water and Soil       *
*                               *
*      Perkin-Elmer Model 1600 FT-IR                    *
*      Analysis Report      *
*****

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* 74/05/09 14:30
*
* Sample identification
* 945564
*
* Initial mass of sample, g
* 2.050
*
* Volume of sample after extraction, ml
* 25.000
*
* Petroleum hydrocarbons, ppm
* 105.337
* Net absorbance of hydrocarbons (2930 cm-1)
* 0.016

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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

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
16	945864	NON-AQ	08/08/94	08/11/94	08/12/94	1
17	945865	NON-AQ	08/08/94	08/11/94	08/12/94	1
18	945865	NON-AQ	08/08/94	08/11/94	08/12/94	10

PARAMETER	UNITS	16	17	18
BENZENE	MG/KG	<0.025	<0.025	<0.25
TOLUENE	MG/KG	0.028	0.20	<0.25
ETHYLBENZENE	MG/KG	<0.025	0.78	<0.25
TOTAL XYLENES	MG/KG	0.043	9.8	2.2

SURROGATE:

BROMOFLUOROBENZENE (%) 84 89 109

PHASE II

RECORD OF SUBSURFACE EXPLORATION

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

Thompson No. 1A 74312

Elevation

Borehole Location T26, R9W, S24, P

GWL Depth

Logged By Jeff W. Kindley

Drilled By G. Sudduth

Date/Time Started 08/16/95 0710

Date/Time Completed 08/16/95 0945

Well Logged By

Jeff W. Kindley

Personnel On-Site

G. Sudduth, H. Keif, D. Roberts

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			Drilling Conditions & Blow Counts
							BZ	BH	S	
0				Backfill material to 7'						
5										
10										
15	1	13-15	18 2.0	SAND, brown, loose, dry At 15' CLAY, Gray, tight (stiff) dry					147 137	0738
20	2	18-20	17 2.0	CLAY, gray, stiff, dry					132 144	0754
25	3	23-25	17 2.0	S.A.A.					139 122	0808
30	4	28-30	16 2.0	S.A.A.					138 118	0823
35	5	33-35	16 2.0	S.A.A.					99 126	0833
40	6	38-40	14 2.0	S.A.A. Boring terminated at 40'					5 2	0909

Comments:

Sample collected from 38 to 40'. Borehole was grouted to surface

Geologist Signature

Jeffery Kindley



FIELD SERVICES LABORATORY
ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	JWK16	947250
MTR CODE SITE NAME:	74312	Thompson No. 1A
SAMPLE DATE TIME (Hrs):	08-16-95	09:09
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. ANAL.:	8/17/95	
DATE OF BTEX EXT. ANAL.:	8/21/95	8/21/95
TYPE DESCRIPTION:	VG	Light grey sand & sandstones

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)	73.8	MG/KG			1.99	28
HEADSPACE PID	2	PPM				
PERCENT SOLIDS	91.0	%				

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

The Surrogate Recovery was at 108% for this sample All QA/QC was acceptable.
Narrative:

DF = Dilution Factor Used

Approved By: JP

Date: 8/25/95

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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    *
*****

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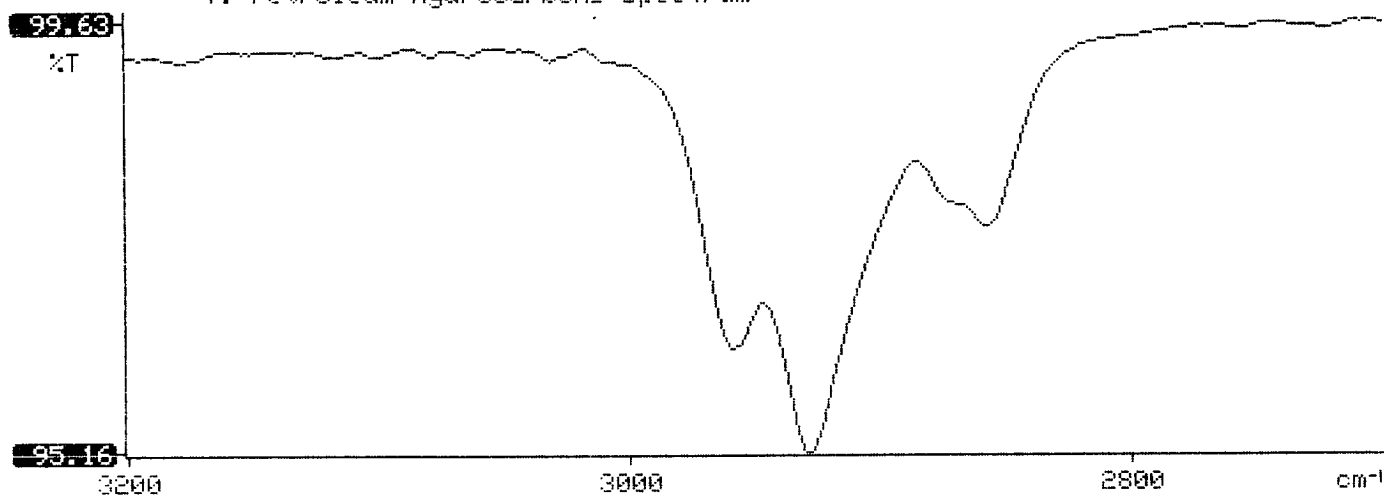
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*
* 95/08/17 14:24
*
* Sample identification
* 947250
*
* Initial mass of sample, g
* 1.990
*
* Volume of sample after extraction, ml
* 28.000
*
* Petroleum hydrocarbons, ppm
* 73.794
* Net absorbance of hydrocarbons (2930 cm-1)
* 0.019
*
*
*

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Y: Petroleum hydrocarbons spectrum

14:25



BTEX SOIL SAMPLE WORKSHEET

File	:	947250	Date Printed	:	8/24/95
Soil Mass (g)	:	4.96	Multiplier (L/g)	:	0.00101
Extraction vol. (mL)	:	20	DF (Analytical)	:	200
Shot Volume (uL)	:	100	DF (Report)	:	0.20161

				Det. Limit
Benzene (ug/L)	:	0.00	Benzene (mg/Kg):	0.000 0.504
Toluene (ug/L)	:	0.00	Toluene (mg/Kg):	0.000 0.504
Ethylbenzene (ug/L)	:	0.00	Ethylbenzene (mg/Kg):	0.000 0.504
p & m-xylene (ug/L)	:	0.00	p & m-xylene (mg/Kg):	0.000 1.008
o-xylene (ug/L)	:	0.19	o-xylene (mg/Kg):	0.038 0.504
			Total xylenes (mg/Kg):	0.038 1.512
			Total BTEX (mg/Kg):	0.038

EL PASO NATURAL GAS
EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM001\082195.001
 Method : C:\LABQUEST\METHODS\9001.met
 Sample ID : 947250,4.96G,100U
 Acquired : Aug 21, 1995 13:25:46
 Printed : Aug 22, 1995 07:06:54
 User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	3.467	0	0.0000
a,a,a TFT	4.913	5293891	101.7866
TOLUENE	6.740	113958	-0.4320
ETHYLBENZENE	10.500	162885	-0.0257
M & P XYLENE	10.850	455520	-3.8240
O XYLENE	11.913	178259	0.1886
BFB	13.393	77580728	107.7006

C:\LABQUEST\CHROM001\082195.001 - Channel A

