

EL PASO FIELD SERVICES
PRODUCTION PIT CLOSURE

PROPERTY OIL & GAS INSPECTOR

DEC 21 1998

CANYON LARGO UNIT #60
Meter/Line ID - 74796

RECEIVED
JUL 2 1998

SITE DETAILS

Legals - Twn: 24 Rng: 07
NMOCD Hazard Ranking: 40
Operator: MERIDIAN OIL INC

Sec: 10

Unit: A

Land Type: 2 - Federal

Pit Closure Date: 08/25/94

OIL CON. DIV
DIST. 2

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.

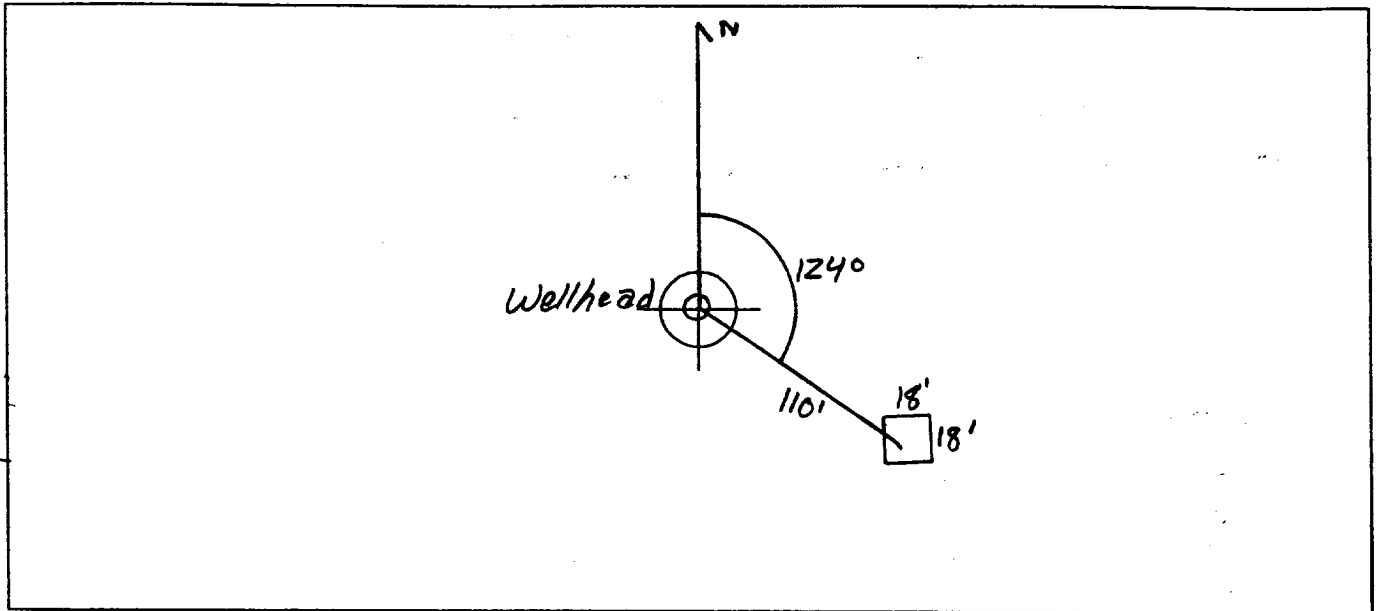
FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: <u>74-796</u> Location: <u>Canyon Largo Unit No. 60</u> Operator #: <u>2999</u> Operator Name: <u>Meridian Oil</u> P/L District: <u>Ballard</u> Coordinates: Letter: <u>A</u> Section <u>10</u> Township: <u>24</u> Range: <u>7</u> Or Latitude _____ Longitude _____ Pit Type: Dehydrator _____ Location Drip: <u>X</u> Line Drip: _____ Other: _____ Site Assessment Date: <u>07/05/94</u> Area: <u>07</u> Run: <u>62</u>	
SITE ASSESSMENT	NMOCD Zone: (From NMOCD Maps) Inside <input checked="" type="checkbox"/> (1) Outside <input type="checkbox"/> (2) Land Type: BLM <input checked="" type="checkbox"/> (1) State <input type="checkbox"/> (2) Fee <input type="checkbox"/> (3) Indian _____ Depth to Groundwater: Less Than 50 Feet (20 points) <input checked="" type="checkbox"/> (1) 50 Ft to 99 Ft (10 points) <input type="checkbox"/> (2) Greater Than 100 Ft (0 points) <input type="checkbox"/> (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? <input type="checkbox"/> (1) YES (20 points) <input checked="" type="checkbox"/> (2) NO (0 points) Horizontal Distance to Surface Water Body: Less Than 200 Ft (20 points) <input checked="" type="checkbox"/> (1) 200 Ft to 1000 Ft (10 points) <input type="checkbox"/> (2) Greater Than 1000 Ft (0 points) <input type="checkbox"/> (3) Name of Surface Water Body <u>Rockhouse Canyon</u> (Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds) Distance to Nearest Ephemeral Stream <input type="checkbox"/> (1) < 100' (Navajo Pits Only) <input type="checkbox"/> (2) > 100' TOTAL HAZARD RANKING SCORE: <u>40</u> POINTS	
REMARKS	Remarks : <u>Redline Book - Inside</u> <u>Vulnerable Zone - Inside</u> <u>One pit, pit is dry, will close one pit</u> <div style="text-align: right;"><u>DIG & HALL</u></div>	

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 124° Footage from Wellhead 110'
 b) Length : 18' Width : 18' Depth : 3'

ORIGINAL PIT LOCATION



REMARKS

Remarks :

Pictures @ 10:20 (7/6/94) (9-12, Roll 1)
Dump Truck

Completed By:

Sarah Kelly

Signature

7/5/94

Date

PHASE I EXCAVATION

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	<p>Meter: <u>74796</u> Location: <u>CANYON Largo UNIT #60</u></p> <p>Coordinates: Letter: <u>A</u> Section <u>10</u> Township: <u>24</u> Range: <u>7</u></p> <p>Or Latitude _____ Longitude _____</p> <p>Date Started : <u>8-25-94</u> Run: <u>07</u> <u>62</u></p>
FIELD OBSERVATIONS	<p>Sample Number(s): <u>KP208</u></p> <p>Sample Depth: <u>12'</u> Feet</p> <p>Final PID Reading <u>164</u> PID Reading Depth <u>12'</u> Feet</p> <p>Groundwater Encountered <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>Approximate Depth _____ Feet</p>
CLOSURE	<p>Remediation Method :</p> <p>Excavation <input checked="" type="checkbox"/> Approx. Cubic Yards <u>60</u></p> <p>Onsite Bioremediation <input type="checkbox"/></p> <p>Backfill Pit Without Excavation <input type="checkbox"/></p> <p>Soil Disposition:</p> <p>Envirotech <input checked="" type="checkbox"/> Tierra <input type="checkbox"/></p> <p>Other Facility <input type="checkbox"/> Name: _____</p> <p>Pit Closure Date: <u>8-25-94</u> Pit Closed By: <u>B.E.I</u></p>
REMARKS	<p>Remarks : <u>SOME LINE MARKERS. STARTED REMEDIATING TO 12'</u> <u>A+ 12' SOIL BROWN LOOKING WITH A SMALL PID CLOSED</u> <u>PIT.</u></p>
	<p>Signature of Specialist: <u>Kelly Padilla</u></p>



FIELD SERVICES LABORATORY

ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KP 208	946009
MTR CODE SITE NAME:	74796	N/A
SAMPLE DATE TIME (Hrs):	8/25/94	1230
SAMPLED BY:	N/A	
DATE OF TPH EXT. ANAL.:	8-30-94	8/30/94
DATE OF BTEX EXT. ANAL.:	8/31/94	9/7/94
TYPE DESCRIPTION:	VC	Brown Sand & clay

REMARKS:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	20.25	MG/KG	10			
TOLUENE	46	MG/KG	10			
ETHYL BENZENE	0.68	MG/KG	10			
TOTAL XYLENES	4.3	MG/KG	10			
TOTAL BTEX	51	MG/KG				
TPH (418.1)	¹⁵¹⁵ 975 195	MG/KG			2.05	28
HEADSPACE PID	164	PPM				
PERCENT SOLIDS	87.0	%				

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

The Surrogate Recovery was at 58 % for this sample All QA/QC was acceptable.

Narrative:

AT I results attached. Surrogate recovery was outside
AT I QC limits due to matrix interference.

DF = Dilution Factor Used

Approved By:

Date:

9/30/94

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1      Test Method for
2      Oil and Grease and Petroleum Hydrocarbons
3      in Water and Soil
4
5      Perkin-Elmer Model 1600 FT-IR
6      Analysis Report
7      *****

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94/08/30 15:28

Sample identification

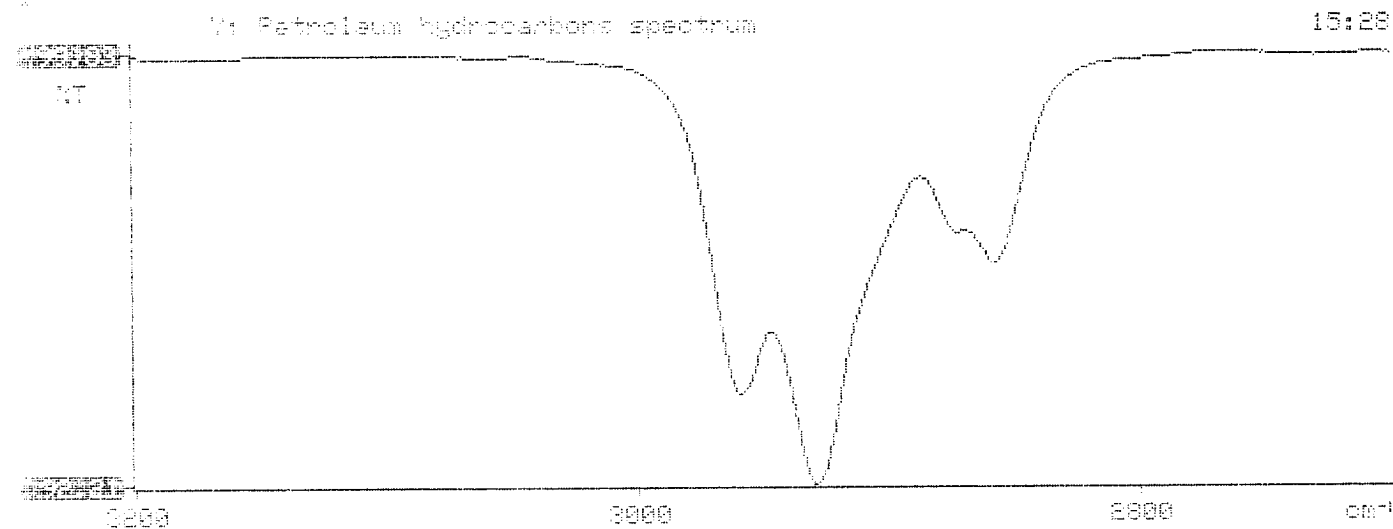
746009 ~~746~~ **RJB**

Initial mass of sample, g
2.050

Volume of sample after extraction, ml
25.000

Petroleum hydrocarbons, ppm
195.196

Net absorbance of hydrocarbons (2930 cm⁻¹)
0.034



ILLEGIBLE



Analytical**Technologies**, Inc.

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

ATI I.D. 408425

September 12, 1994

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On 08/31/94, 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.

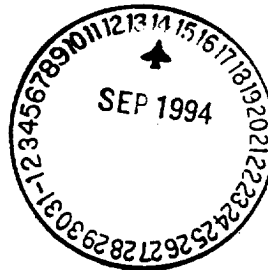
If you have any questions or comments, please do not hesitate to contact us at (505) 344-3777.

Letitia Krakowski, Ph.D.
Project Manager

H. Mitchell Rubenstein, Ph.D.
Laboratory Manager

MR:jt

Enclosure





Analytical Technologies, Inc.

GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)
CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 408425
PROJECT # : 24324
PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
04	946009	NON-AQ	08/25/94	08/31/94	09/07/94	10
05	946010	NON-AQ	08/25/94	08/31/94	09/06/94	1
06	946011	NON-AQ	08/25/94	08/31/94	09/06/94	1

PARAMETER	UNITS	04	05	06
BENZENE	MG/KG	<0.25	<0.025	<0.025
TOLUENE	MG/KG	46	0.032	0.026
ETHYLBENZENE	MG/KG	0.68	0.096	0.099
TOTAL XYLENES	MG/KG	4.3	0.047	0.033

SURROGATE:

BROMOFLUOROBENZENE (%)	58*	96	95
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*OUTSIDE ATI QUALITY CONTROL LIMITS DUE TO MATRIX INTERFERENCE

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 Canyon Largo Unit North 74796

Elevation

Borehole Location QA-S10-T24-R7

GWL Depth

Logged By CM CHANCE

Drilled By CMC K Padilla F. Rivera

Date/Time Started CMC 8/18/95-1745

Date/Time Completed CMC 8/18/95-1515

Well Logged By

CM Chance

Personnel On-Site

K Padilla, F. Rivera, D. Charlie

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 S BZ BH HS			Drilling Conditions & Blow Counts
0				Backfill to 12'						
5										
10										
15	1	15-17	4"	Br silty CLAY, med stiff, med plastic, sl moist, odor			0	40	$\frac{503}{469}$	1445h
20	2	20-22	8"	Br sandy CLAY, vF sand, med stiff, med plastic, sl moist			0	34	$\frac{8}{7}$	1450
25				TOB 22'						
30										
35										
40										

Comments:

CMC 79(20-22') sent to lab (BTEX + TPH). BH grouted to surface

Geologist Signature

CMC Chance



FIELD SERVICES LABORATORY

ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	CNC 79	947265
MTR CODE SITE NAME:	74796	Canyon Largo Unit 60
SAMPLE DATE TIME (Hrs):	08-18-95	
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. ANAL.:	8/21/95	8-21-95
DATE OF BTEX EXT. ANAL.:	8/21/95	
TYPE DESCRIPTION:	V6	Dark brown clay

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)	83.3 ^{PS} 8/23/95	MG/KG			2.02	
HEADSPACE PID	7	PPM				
PERCENT SOLIDS	86.8	%				

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

The Surrogate Recovery was at
Narrative:

106%

for this sample All QA/QC was acceptable.

DF = Dilution Factor Used

Approved By:

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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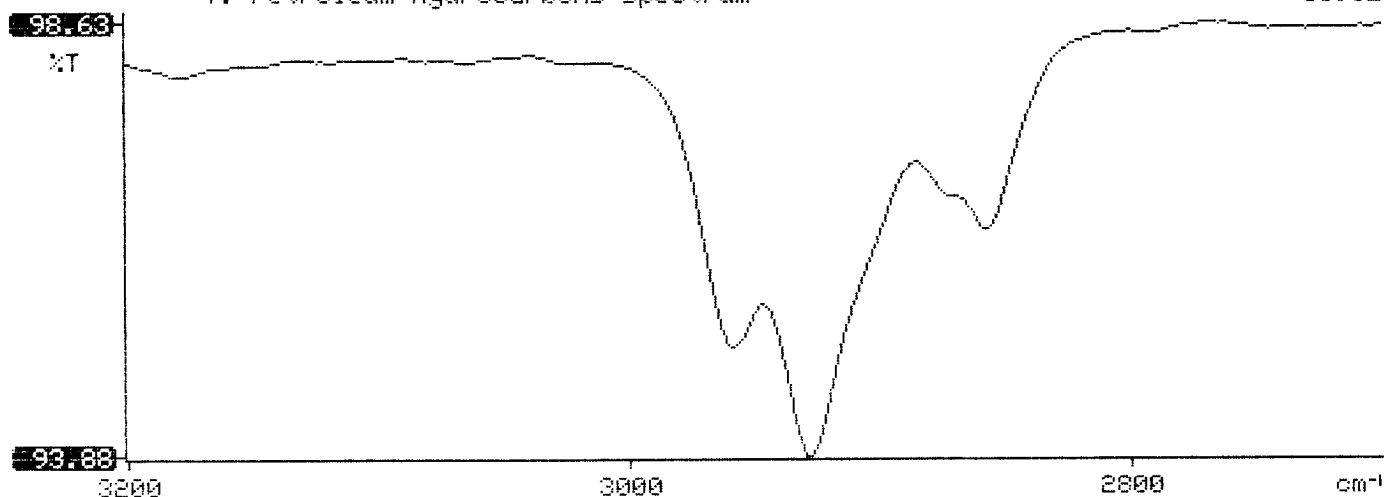
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* 95/08/21 11:52
*
* Sample identification
* 947265
*
* Initial mass of sample, g
* 2.020
*
* Volume of sample after extraction, ml
* 28.000
*
* Petroleum hydrocarbons, ppm
* 83.348
* Net absorbance of hydrocarbons (2930 cm-1)
* 0.020
*
*
*

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Y: Petroleum hydrocarbons spectrum

11:52



BTEX SOIL SAMPLE WORKSHEET

File	:	947265	Date Printed	:	8/24/95
Soil Mass (g)	:	4.98	Multiplier (L/g)	:	0.00100
Extraction vol. (mL)	:	20	DF (Analytical)	:	200
Shot Volume (uL)	:	100	DF (Report)	:	0.20080

			Det. Limit	
Benzene (ug/L)	:	0.00	Benzene (mg/Kg):	0.000 0.502
Toluene (ug/L)	:	0.00	Toluene (mg/Kg):	0.000 0.502
Ethylbenzene (ug/L)	:	0.00	Ethylbenzene (mg/Kg):	0.000 0.502
p & m-xylene (ug/L)	:	0.00	p & m-xylene (mg/Kg):	0.000 1.004
o-xylene (ug/L)	:	0.00	o-xylene (mg/Kg):	0.000 0.502
			Total xylenes (mg/Kg):	0.000 1.506
			Total BTEX (mg/Kg):	0.000

EL PASO NATURAL GAS

EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM001\082195.020
 Method : C:\LABQUEST\METHODS\0001.met
 Sample ID : 947265,4.98G,100U
 Acquired : Aug 22, 1995 00:48:05
 Printed : Aug 22, 1995 01:14:20
 User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	3.410	0	0.0000
a,a,a TFT	4.970	5421857	104.2470
TOLUENE	6.803	130185	-0.3871
ETHYLBENZENE	10.543	51877	-0.3766
M & P XYLENE	10.893	263376	-4.3954
O XYLENE	11.927	0	0.0000
BFB	13.423	76075072	105.6104

C:\LABQUEST\CHROM001\082195.020 - Channel A

