

Denny E. Faust

DEPUTY OIL & GAS FIELD SERVICES
PRODUCTION PIT CLOSURE
DEC 9 1 1998

Approved

NELLIE PLATERO #2
Meter/Line ID - 71402

RECEIVED
JUL 2 1998

OIL CONSERVATION
DIST. 3

SITE DETAILS

Legals - Twn: 27

Rng: 09

Sec: 10

Unit: P

NMOCD Hazard Ranking: 40

Land Type: 3 - Navajo

Operator: TEXACO E&P INC

Pit Closure Date: 08/18/94

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

GENERAL

Meter: 7140Z Location: Nellie Platero well No. 2
 Operator #: 0263 Operator Name: Texaco P/L District: _____
 Coordinates: Letter: P Section 10 Township: 27 Range: 9
 Or Latitude _____ Longitude _____
 Pit Type: Dehydrator _____ Location Drip: X Line Drip: _____ Other: _____
 Site Assessment Date: 6-13-94 Area: 11 Run: 47

NMOCD Zone:

(From NMOCD
Maps)

Inside
Outside

Land Type:

BLM ☐ (1)

State ☐ (2)

Fee ☐ (3)

Indian Navajo Agency

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 Tequez 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

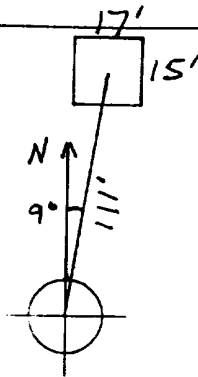
Remarks : Two pits. Drip pit is dry

Inside V.Z. Redlined Topo

Digital Hand

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 9 Footage from Wellhead 11
b) Length : 17 Width : 15 -Depth : 3



Remarks :

Photos - 1600 hrs. approx
End dump

Completed By:

F. Walter

Signature

6-13-94

Date

PHASE I EXCAVATION

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	<p>Meter: <u>71402</u> Location: <u>Nellie PLATERO well No. 2</u></p> <p>Coordinates: Letter: <u>P</u> Section <u>10</u> Township: <u>27</u> Range: <u>9</u></p> <p>Or Latitude _____ Longitude _____</p> <p>Date Started : <u>8-18-94</u> Run: <u>11</u> <u>47</u></p>
FIELD OBSERVATIONS	<p>Sample Number(s): <u>KP193</u></p> <p>Sample Depth: <u>12'</u> Feet</p> <p>Final PID Reading <u>738</u> PID Reading Depth <u>12'</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 checked="" type="checkbox"/> Approx. Cubic Yards <u>50</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"/> <input type="checkbox"/> Tierra</p> <p>Other Facility <input type="checkbox"/> Name: _____</p> <p>Pit Closure Date: <u>8-18-94</u> Pit Closed By: <u>BEI</u></p>
REMARKS	<p>Remarks : <u>Some line markers on location. Started</u> <u>Remediating to 12'. At 12' soil turned brown with a</u> <u>smell. Closed Pit</u></p>
	<p>Signature of Specialist: <u>Kelly Padilla</u></p>



FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KP193	945968
MTR CODE SITE NAME:	71402	Nellie Platero #2
SAMPLE DATE TIME (Hrs):	8/18/94	1110
PROJECT:	Phase I	
DATE OF TPH EXT. ANAL.:	8/24/94	8/24/94
DATE OF BTEX EXT. ANAL.:	8/25/94	8/26/94
TYPE DESCRIPTION:	VC	Brown coarse sand

Field Remarks: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	<0.03	MG/KG				
TOLUENE	0.29	MG/KG				
ETHYL BENZENE	0.04	MG/KG				
TOTAL XYLENES	0.28	MG/KG				
TOTAL BTEX	0.61	MG/KG				
TPH (418.1)	158	MG/KG			2.09	28
HEADSPACE PID	738	PPM				
PERCENT SOLIDS	95.0	%				

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

The Surrogate Recovery was at 97.0 for this sample All QA/QC was acceptable.

Narrative:

ATI results attached.

DF = Dilution Factor Used

Approved By: _____

INGVZPIT.XLS

Date: 9/30/94



FIELD SERVICES LABORATORY
ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KP 193	945968
MTR CODE SITE NAME:	71402	N/A
SAMPLE DATE TIME (Hrs):	8-18-94	1110
SAMPLED BY:	N/A	
DATE OF TPH EXT. ANAL.:	8-24-94	8/24/94
DATE OF BTEX EXT. ANAL.:	8/25/94	8/26/94
TYPE DESCRIPTION:	VC	Brown coarse sand

REMARKS:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	LO.025	MG/KG	1			
TOLUENE	0.29	MG/KG	1			
ETHYL BENZENE	0.034	MG/KG	1			
TOTAL XYLENES	0.28	MG/KG	1			
TOTAL BTEX	0.63 ^{DFP} 160	MG/KG				
TPH (418.1)	160158	MG/KG ^{and 9/21/94}			2.09	28
HEADSPACE PID	738	PPM				
PERCENT SOLIDS	95.0	%				

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

The Surrogate Recovery was at 97 % for this sample All QA/QC was acceptable.

Narrative:

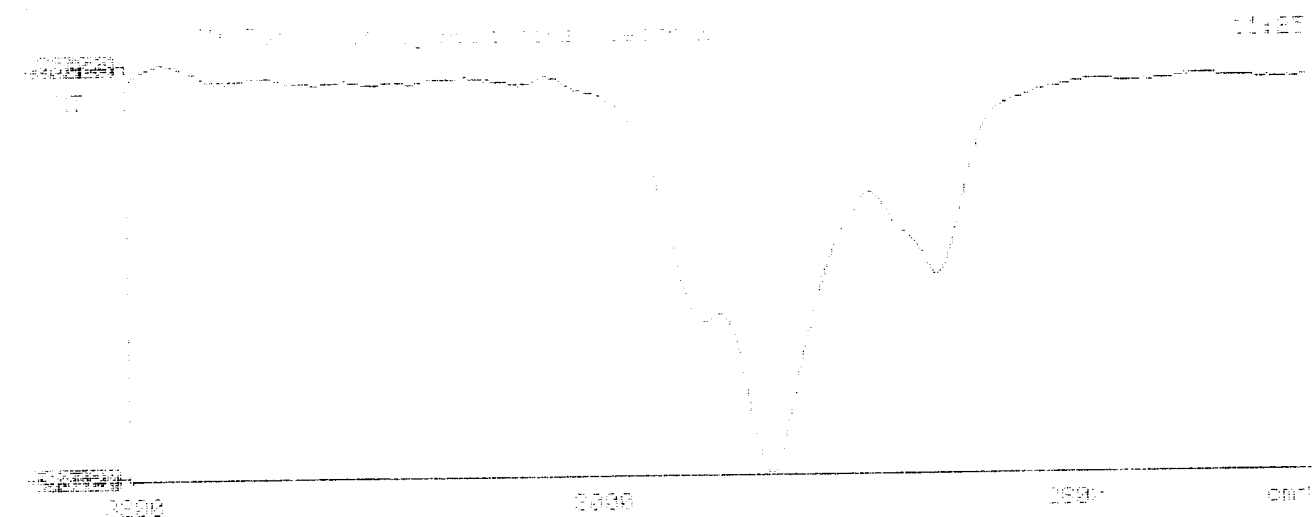
AT I results attached.

DF = Dilution Factor Used

Approved By:

Date:

9/20/94





Analytical Technologies, Inc.

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

ATI I.D. 408397

August 29, 1994

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

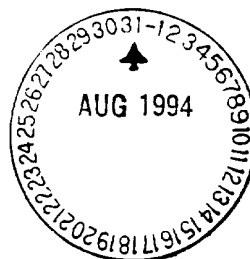
On 08/25/94, Analytical Technologies, Inc., (ADHS License No. AZ0015), received a request to analyze non-aqueous samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

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.: 408397
 PROJECT # : 24324
 PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
04	945966	NON-AQ	08/18/94	08/25/94	08/25/94	1
05	945967	NON-AQ	08/18/94	08/25/94	08/25/94	1
06	945968	NON-AQ	08/18/94	08/25/94	08/26/94	1
PARAMETER			UNITS	04	05	06
BENZENE			MG/KG	<0.025	<0.025	<0.025
TOLUENE			MG/KG	0.092	<0.025	0.29
ETHYLBENZENE			MG/KG	0.026	<0.025	0.034
TOTAL XYLENES			MG/KG	0.14	<0.025	0.28

SURROGATE:

BROMOFLUOROBENZENE (%) 100 97 97

PHASE II

RECORD OF SUBSURFACE EXPLORATION

PHILIP ENVIRONMENTAL SERVICES INC.

4000 Monroe Road

Farmington, New Mexico 87401

(505) 326-2262 FAX (505) 326-2388

Borehole # BH

Well # 1

Page 1 of 1

Project Name EPFS GW PITS

Project Number 17520 Phase 6001.77

Project Location NELLIE PLATERO #2 - 71402

Well Logged By D. CESARK

Personnel On-Site C. CHANCE, C. MAIZ, D. CHARLE

Contractors On-Site

Client Personnel On-Site

Drilling Method 4 1/4" ID HSA

Air Monitoring Method PID, CGI

Elevation

Borehole Location T27R9 - S10 - Ltr P

GWL Depth

Logged By D. CESARK

Drilled By K. PADILLA

Date/Time Started 2-10-97 / 1345

Date/Time Completed 2-10-97 / 1500

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						145
5				TO						
10				12'						
15	1	15-17	24	WELL-GRADED SANDS WITH LITTLE FINES. MOIST. NO STAINING OR ODORS. LT. BEN. W/OCCAS. FE STAINING.	SM				0/9	1403
20										
25				TD = 17'						
30										
35										
40										

Comments:

TD = 17' CMC 302 COLLECTED FROM 15-17' + SUBMITTED TO LAB
FOR BTEX + TPH ANALYSES. BORING GROUTED TO SURFACE. NO GW ENCOUNTERED

Geologist Signature



FIELD SERVICES LABORATORY
ANALYTICAL REPORT

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	CMC302	970082
MTR CODE SITE NAME:	71402	Nellie Platero #2
SAMPLE DATE TIME (Hrs):	2/10/97	1403
PROJECT:	Phase II Drilling 15-17'	
DATE OF TPH EXT. ANAL.:	2/13/97	2/13/97
DATE OF BTEX EXT. ANAL.:	2/14/97	2/14/97
TYPE DESCRIPTION:	VG	Moist brown sand

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			2.44	28
HEADSPACE PID	9	PPM				
PERCENT SOLIDS	93.1	%				

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

The Surrogate Recovery was at 93.4 % for this sample All QA/QC was acceptable.
Narrative:

DF = Dilution Factor Used

Approved By:

John L. Lard

Date:

2/25/97

EL PASO FIELD SERVICES LABORATORY

EPA METHOD 8020 - BTEX

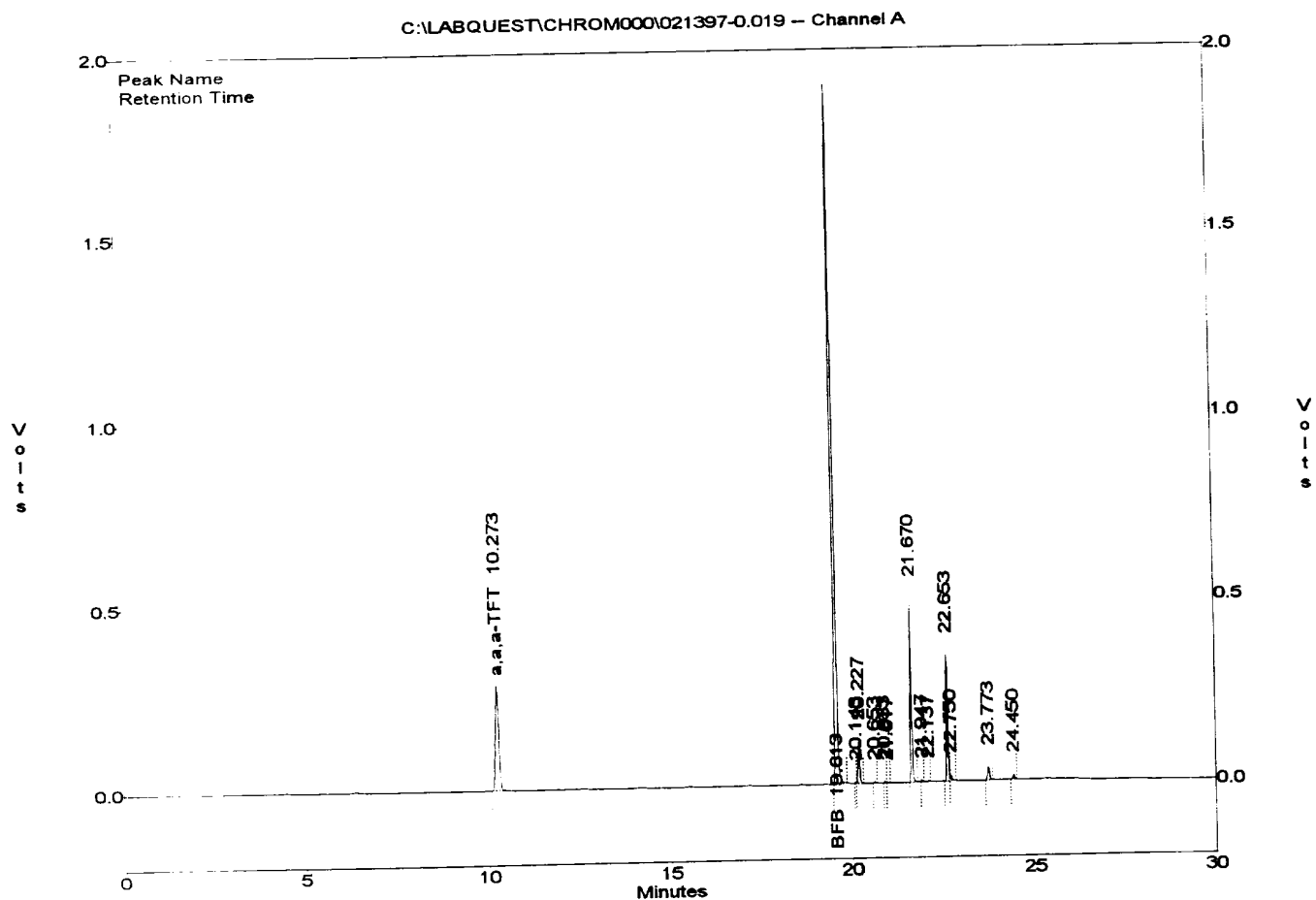
File : C:\LABQUEST\CHROM000\021397-0.019
 Method : C:\LABQUEST\METHODS\0-021297.MET
 Sample ID : 970082,5.22G,50U
 Acquired : Feb 14, 1997 04:30:52
 Printed : Feb 14, 1997 05:01:19
 User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	8.050	0	0.0000
a,a,a-TFT	10.273	1795662	95.1501
TOLUENE	12.567	0	0.0000
ETHYLBENZENE	16.790	0	0.0000
M,P-XYLENES	17.170	0	0.0000
O-XYLENE	18.310	0	0.0000
BFB	19.613	6820656	93.3712

Channel A Group Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
TOTAL XYLENES		0	0.0000



BTEX SOIL SAMPLE WORKSHEET

File	:	970082	Date Printed	:	2/18/97
Soil Mass (g)	:	5.22	Multiplier (L/g)	:	0.00096
Extraction vol. (mL)	:	10	CAL FACTOR (Analytical):		200
Shot Volume (uL)	:	50	CAL FACTOR (Report):		0.19157

		DILUTION FACTOR:	1	Det. Limit
Benzene (ug/L)	:	0.00	Benzene (mg/Kg):	0.000 0.479
Toluene (ug/L)	:	0.00	Toluene (mg/Kg):	0.000 0.479
Ethylbenzene (ug/L)	:	0.00	Ethylbenzene (mg/Kg):	0.000 0.479
p & m-xylene (ug/L)	:	0.00	p & m-xylene (mg/Kg):	0.000 0.958
o-xylene (ug/L)	:	0.00	o-xylene (mg/Kg):	0.000 0.479
			Total xylenes (mg/Kg):	0.000 1.437
			Total BTEX (mg/Kg):	0.000

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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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* 97/02/13 14:58
*
* Sample identification
* 970082
*
* Initial mass of sample, g
* 2.440
*
* Volume of sample after extraction, ml
* 28.000
*
* Petroleum hydrocarbons, ppm
* -8.933
*
* Net absorbance of hydrocarbons (2930 cm-1)
* 0.155
*
*
*

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