# Denny ELEPASO FIELD SERVICES PRODUCTION PIT CLOSURE

Legals - Twn: 31 Rng: 13

NMOCD Hazard Ranking: 10

Operator: BRUCE ANDERSON

DEC 2 1998

FEDERAL #1 Meter/Line ID - 73486 DECEIVED NO 10L 2 1998

OIL CON. DIV.

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SITE DETAILS

Sec: 29

Unit: J

Land Type: 2 - Federal Pit Closure Date: 04/21/94

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

	73486 Meter: 97343 Location: FEDERAL #1					
7	BRUCE Operator #: 0208 Operator Name: ANDERSON P/L District: KUTZ					
RAI	Coordinates: Letter: <u>J</u> Section <u>29</u> Township: <u>31</u> Range: <u>13</u>					
GENERAL	Or Latitude Longitude					
Ö	Pit Type: Dehydrator Location Drip: X_ Line Drip: Other:					
	Site Visit Date: 3.28.94 Run: 02 42					
	NMOCD Zone: Inside Land Type: BLM (From NMOCD Vulnerable State \bigcup Fee \bigcup Outside \bigcup Indian \bigcup					
SITE ASSESSMENT	Depth to Groundwater  Less Than 50 Feet (20 points)  50 Ft to 99 Ft (10 points)  Greater Than 100 Ft (0 points)  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?  YES (20 points)  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)  Name of Surface Water Body  SARKER ARROYO  (Surface Water Body: Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)  TOTAL HAZARD RANKING SCORE:					
70						
REMARKS	Remarks: THREE PITS ON LOCATION. WILL CLOSE ONLY ONE.					
REM						

	ORIGINAL PIT LOCATION
LOCATION	Original Pit : a) Degrees from North <u>60°</u> Footage to Wellhead <u>176'</u> b) Degrees from North Footage to Dogleg  Dogleg Name c) Length : <u>19'</u> Width : <u>13'</u> Depth :/
ORIGINAL PIT LOC	WEULHEAD 13'
REMARKS	Remarks:  STARTED TAKING PICTURES AT. 1:29 P.M.  DUMP TRUCK - BOBTAIL
	Completed By:  3.28.94  Signature  Date

# FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: 97343 Location: P/L District: Operator #: Operator Name: P/L District: Coordinates: Letter: Section Township: Range: Or
	NMOCD Zone:  (From NMOCD  Maps)  Inside  Outside  Land Type: BLM (1)  State (2)  Fee (3)  Indian
SITE ASSESSMENT	Depth to Groundwater  Less Than 50 Feet (20 points)   Solution 50 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) (1) 200 Ft to 1000 Ft (10 points) (2) Greater Than 1000 Ft (0 points) (3) Name of Surface Water Body
	(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 :
MA	
RE	

# PHASE I EXCAVATION

# FIE' PIT REMEDIATION/CLOS' 'E FORM

GENERAL	Meter: 73486  Meter: 47343 Location: 1-ederal #    Coordinates: Letter: J Section 29 Township: 31 Range: 13  Or Latitude Longitude Longitude Date Started: 4/2/94 Area: 02 Run: 42
FIELD OBSERVATIONS	Sample Number(s): \( \frac{\sum \width{\su} \emptyre \sum \width{\su}}{\sum \width{\su} \emptyre \sum \width{\su}} \)  Sample Depth: \( \frac{12}{253} \)  Feet  Final PID Reading Depth \( \frac{12}{2} \)  Feet  Yes No  Groundwater Encountered \( \bigcup \) (1) \( \bigcup \) (2) Approximate Depth \( \bigcup \)  Feet
CLOSURE	Remediation Method:  Excavation
REMARKS	Remarks: Soil discolored pretty bul  Signature of Specialist: Vale Vulses



# FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

# SAMPLE IDENTIFICATION

Field ID	Lab ID
VW19	940848
73486/97343	NA
4/2/194	1230
NIA	
4-77-94	4-27-94
4/29/44	4/20/94
VC	Grey Sand Clay
	VW19 73486/97343 4/21/94 NIA 4-77-94 4/29/44

### **RESULTS**

PARAMETER	RESULT	UNITS	QUALIFIERS					
PANAMETER			DF	Q	M(g)	V(mi)		
BENZENE	1.49	MG/KG	70					
TOLUENE	112	MG/KG	20	DZB				
ETHYL BENZENE	13.1	MG/KG	20					
TOTAL XYLENES	223	MG/KG	20	DI				
TOTAL BTEX	350	MG/KG	,7547		0.53	20		
TPH (418.1)	12489 24C	MG/KG			2.08	28		
HEADSPACE PID	253	PPM						
PERCENT SOLIDS	84.3%	%	188					

	TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020							
The Surrogate Recovery was at	100. % for this sample	All QA/QC was acceptable.						
Narrative:								
DF = Dilution Factor Used		Date: 5/17/44						

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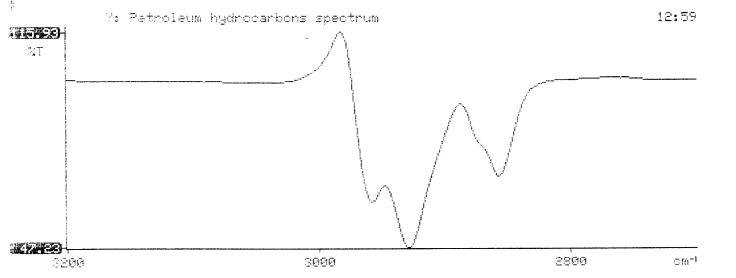
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Test Method for 紫 Oil and Grease and Petroleum Hydrocarbons 1/4 in Water and Soil Perkin-Elmer Model 1600 FT-IR Analysis Report \* 94/04/22 12:59 \* Sample identification 940848 Initial mass of sample, g 2.080 Volume of sample after extraction, ml 28,000 × # Petroleum hydrocarbons, ppm 2488.711 Met absorbance of hydrocarbons (2930 cm-1)



# PHASE II

#### RECORD OF SUBSURFACE EXPLORATION

#### PHILIP ENVIRONMENTAL

4000 Monroe Road

Farmington, New Mexico 87401 (605) 326-2262 FAX (605) 326-2388

Elevation Borehole Location 7 GWL Depth Logged By Drilled By M DONOHUE Date/Time Started 10/3/95 Date/Time Completed

**BH-1** Borehole # Well # Page

Project Name **EPNG PITS** 6000 Phase 77 14509 Project Number Federal Project Location

ST Pope Well Logged By Personnel On-Site Contractors On-Site Client Personnel On-Site

4 1/4" ID HSA **Drilling Method** PID, CGI Air Monitoring Method

Depth (Feet)	Sample Number	Sample Interval	Sample Type & Recovery	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)	Air Monitoring Units: PPM BZ BH 1/S		ing y/s	Drilling Conditions & Blow Counts
5			(inches)	Brown Sandy Fill		(reer)			<i>,</i>	
10	<u>l</u>	13 14.5	18	BoHom of Pit Grave Clayer Sand, Line-Mad. Sand trace Silt. Med douse, Moist	<i>د</i>	12	0	0	375	HS= 724 ppm Strong octor
20	2	18	6	Brown Clay W/Sand, fine-med grained fand, med still, need plastic Moist	< L	18	0	12	341	H5= 613 ppm
25	3	23 25	6	Brown Sand, trace clave, fine- Mad Sand, trace moisture, dense Possibly Computed	Sand Stone	23	0	181	l	Spoon Rational 28" HS= 600ppm
30	4	2 8 30	6	SAA Brown - Grac			۵	2 <b>65</b>	1	Notcolmen gravel in Cattings Spoon Retusal 06' HS= 598 ppm Very hard drilling
35	-5	33 35	6	SAN			0	76	/0 <b>1</b>	Speen Relusal @6" HS= 109
40	6	38 40	3'	sAt			0	85	zψs	Spoon Robusal @16 HS: 404

Comments:	See Paul 2	
	<u> </u>	Λ Λ
		Geologist Signature Store T. Jegre

#### RECORD OF SUBSURFACE EXPLORATION

#### PHILIP ENVIRONMENTAL

4000 Monroe Road Farmington, New Mexico 87401 (505) 328-2262 FAX (505) 328-2388

Elevation

Borehole Location T31, R13, S29, T

GWL Depth N/A

Logged By STPope

Drilled By M DONOHUE

Date/Time Started /0/3/95 0930

Date/Time Completed /0/3/95 /230

Borehole #	BH-1			
Well #	NIA			
Page 2	of 2			

 Project Name
 EPNG PITS

 Project Number
 14509
 Phase
 6000
 77

 Project Location
 Fecleval No.1 (97343/73486)

Well Logged By
Personnel On-Site
Contractors On-Site
Client Personnel On-Site

ST Pope

TLONG Meaz

N/A

Drilling Method 4 1/4" ID HSA
Air Monitoring Method PID, CGI

Tob-45  Anger Refusal  1 121 253 Heart Space & Anger Refusal  20	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 MS			Drilling Conditions & Blow Counts	
	1015202530	7	43 45		Brownish Grow Sand Stone, Fire Med Framed, trace sitting, trace Moi TOB-45' Auger Refusel	My &	(feet)			263		

Comments: SAA- Some As Above \* Sample STP-23, 43-45' Collected and sout to EANG

AGD On BTEX & TPH.

Geologist Signature



## FIELD SERVICES LABORATORY ANALYTICAL REPORT

## PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

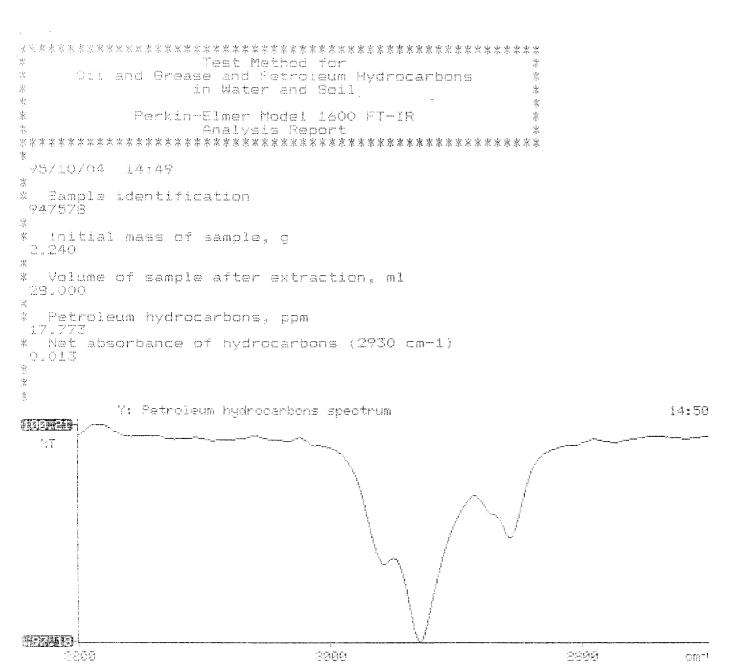
# SAMPLE IDENTIFICATION

_	Field ID	Lab ID
SAMPLE NUMBER:	5TP23	947478 578 Risks
MTR CODE   SITE NAME:	97343/73484	Federal No. 1
SAMPLE DATE   TIME (Hrs):	10-3-95	1145
PROJECT:	Phase II Drilling	
DATE OF TPH EXT.   ANAL.:	10-4-95	
DATE OF BTEX EXT.   ANAL.:	10/4/95	10/4/95
TYPE   DESCRIPTION:	VG	Dark Drown Sand & Clay
•		
Field Remarks:		

 			_
	RESI	П	T

PARAMETER	RE	SULT	UNITS		QUALIFIE	RS	
				DF	Q	M(g)	V(ml)
BENZENE	<	0.5	MG/KG				
TOLUENE	<	0.5	MG/KG				
ETHYL BENZENE	4	0.5	MG/KG				
TOTAL XYLENES	4	1,5	MG/KG				
TOTAL BTEX	4	.3	MG/KG				
TPH (418.1)	1	7.7	MG/KG			2.24	28
HEADSPACE PID	25	3	PPM				
PERCENT SOLIDS	S	)4,4	%				

I ERCEIT SOLIDS	· · · / / · · · · · · · · · · · · · · ·			And the second control of the second control			
The Surrogate Recovery was at  Narrative:  TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020  for this sample All QA/QC was acceptable.							
DF = Dilution Factor Used	)						
Approved By:	<u> </u>		Date: 16 -10	)-4 <u>F</u>			



#### **BTEX SOIL SAMPLE WORKSHEET**

File		:	947578	Date Printed	:	10/5/95
Soil Mass	(g)	:	4.96	Multiplier (L/g)	:	0.00101
Extraction vol.	(mL)	:	10	DF (Analytical)	:	200
Shot Volume	(uL)	:	50	DF (Report)	:	0.20161

				D	et. Limit
Benzene	(ug/L) :	0.00	Benzene (mg/Kg):	0.000	0.504
Toluene	(ug/L) :	0.55	Toluene (mg/Kg):	0.111	0.504
Ethylbenzene	(ug/L) :	0.25	Ethylbenzene (mg/Kg):	0.050	0.504
p & m-xylene	(ug/L) :	1.05	p & m-xylene (mg/Kg):	0.212	1.008
o-xylene	(ug/L) :	0.40	o-xylene (mg/Kg):	0.081	0.504
			Total xylenes (mg/Kg):	0.292	1.512

Total BTEX (mg/Kg): 0.454

#### EL PASO NATURAL GAS EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM001\100495-1.010 Method : C:\LABQUEST\METHODS\1-091895.MET

Sample ID : 947578,4.96G,50U Acquired : Oct 04, 1995 17:05:01 Printed : Oct 04, 1995 17:31:24

User : MARLON

#### Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	4.917	0	0.0000
a,a,a TFT	6.653	4450614	96.4019
TOLUENE	8.683	151626	0.5460
ETHYLBENZENE	12.680	63445	0.2483
M & P XYLENE	13.063	348942	1.0532
O XYLENE	14.167	95598	0.4014
BFB	15.730	64344972	88.7649

#### C:\LABQUEST\CHROM001\100495-1.010 -- Channel A

