DEC 22 1997

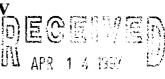
Meter Number:94994 Location Name: JICARILLA APACHE 361 #1J

> Location:TN-23 RG-04 SC-04 UL-A

> > 6 - Jicarilla

NMOCD Zone:OUTSIDE

Hazard Ranking Score:00





#### RATIONALE FOR RISK-BASED CLOSURE OF PRODUCTION PITS LOCATED OUTSIDE OF THE VULNERABLE ZONE IN THE SAN JUAN BASIN

This production pit location was ranked according to the criteria in the New Mexico Oil Conservation Division's Unlined Surface Impoundment Closure Guidelines and received a ranking score of zero. The estimated depth to groundwater is greater than 100-feet beneath ground surface (bgs), the pit is not in a well head protection area, and there are no surface water bodies within 1.000 horizontal feet of the pit location.

The primary source, discharge to the pit has been removed. There has been no discharge to the pits for at least 4 years and the pits have been closed for at least one year.

Each pit was backfilled with clean soil and graded in a manner to divert precipitation away from the excavated area. Minimal infiltration of rainfall is expected. Any rainfall that does infiltrate the ground surface must migrate through clean backfill before reaching the residual hydrocarbons.

There is no source material at the ground surface, so direct contact of hydrocarbons with livestock and the populous is not likely.

In general, outside of the vulnerable area and alluvial valleys, bedrock material is generally encountered within 20 feet of the ground surface. Bedrock material in the San Juan Basin consists of interbedded sandstones, shales and clays. According to Freeze and Cherry, 1979, the hydraulic conductivity of the bedrock material are as follows:

10<sup>-9</sup> to 10<sup>-13</sup> cm/sec Sandstone 10<sup>-12</sup> to 10<sup>-16</sup> cm/sec Shale 10<sup>-12</sup> to 10<sup>-15</sup> cm/sec Clav

Based on this information, the residual hydrocarbons should not migrate to groundwater.

Natural process (bioremediation) are degrading the residual hydrocarbon to carbon dioxide and water and will continue until the source is gone, therefore minimizing any impact to the environment.

Based on the above information, it is highly unlikely that any source material will impact groundwater or ever find an exposure pathway to affect human health and therefore El Paso Field Services Company (EPFS) requests closure of this pit location.



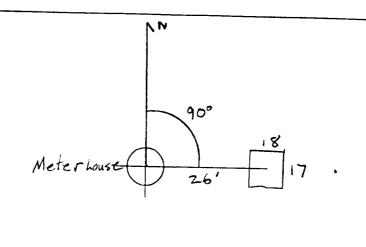
# FIELD PIT SITE ASSESSMENT FORM

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)	1	
Pit Type: Dehydrator Location Drip: X _ Line Drip: Other:	GENERAL	Coordinates: Letter: A Section 4 Township: Z3N Range: 4W  Or Latitude Longitude
(From NMOCD  Maps) Inside		I Fit Type: Denydrator   location Drip: X   Line Det   Del
1 01110	ITE	(From NMOCD  Maps)  Inside  Outside  (1)  Fee  (3)  Depth to Groundwater  Less Than 50 Feet (20 points)  For to 99 Ft (10 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?  Horizontal Distance to Surface Water Body  Less Than 200 Ft (20 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?  (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 HAZAPD PANKING GROUN
One pit on location	SS	1 011115
REW	ARE	One pit on location
	REM	
		-1- (SP3190) 04/08/94

## ORIGINAL PIT LOCATION

Original Pit: a) Degrees from North 90 Footage from Wellhead 26

b) Length : \_\_\_\_\_\_\_ Width : \_\_\_\_\_\_\_ Depth : \_\_\_\_\_\_\_\_ 4\_\_\_



## Remarks:

ORIGINAL PIT LOCATION

REMARKS

Pictures @ 1040 # Z Roll 1

Meter house well. No dogleg in area, Measured from

Completed By:

Signature

7-12-94

Date

# FIELD PIT REMEDIATION/CLOSURE FORM

GEARERAL	Meter: 94994 Location: Juanila Apache 3unt Ju  Coordinates: Letter: A Section 4 Township: 230 Range: 4w  Or Latitude Longitude Longitude  Date Started: 10-9-95 Run: 08 81
FIELD OBSERVATIONS	Sample Number(s): NSILO  Sample Depth: Feet  Final PID Reading D.2_ PID Reading Depth Feet  Yes No  Groundwater Encountered
CLOSURE	Remediation Method:  Excavation  Onsite Bioremediation  Backfill Pit Without Excavation  Soil Disposition:  Envirotech  Other Facility  Name:  Pit Closure Date: 10-17-95  Pit Closed By: Pilip
REMARKS	Remarks: Excavated P.1 To 5' SAMPLED PID' REDDING O.Z.  NO DIRT HAWLED. P.1 IS LISTED DUSIDE W.U. 2006  MURE THAN 100' FROM EPHEMBERAL STIRBAM  Fencing 28 X 28 X 3 Nething Y NX  Signature of Specialist: Didn's Schmaltz  (SP3181) 03/16/84



## FIELD SERVICES LABORATORY ANALYTICAL REPORT

# PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

## SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	NSIIO	947609
MTR CODE   SITE NAME:	94994	Aic. Apache 361#1J.Y.
SAMPLE DATE   TIME (Hrs):	10-09-95	1500
PROJECT:	Jic Pits	
DATE OF TPH EXT.   ANAL.:	10/11/05	
DATE OF BTEX EXT.   ANAL.:	10/10/95	10/10/95
TYPE   DESCRIPTION:	Va	Light brown Tare
Field Remarks:	(No wall PID readi	ms)

PARAMETER	RESULT	UNITS	QUALIFIERS			
PARAMETER	12002		DF	Q	M(g)	V(ml)
BENZENE	< 0.5	MG/KG				
TOLUENE	4 0.5	MG/KG				
ETHYL BENZENE	4 0.5	MG/KG				
TOTAL XYLENES	4 1.5	MG/KG				
TOTAL BTEX	43	MG/KG				
TPH (418.1)	< 0	MG/KG			1.98	28
HEADSPACE PID	0.2	PPM		ight of the second of the seco		
PERCENT SOLIDS	94	%		falge is	SES CONTRACT	\$ ************************************

The Surrogate Recovery was at

OF = Dilution Factor Used

The Surrogate Recovery was at Surrogat

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

Perkin-Elmer Model 1600 FT-IR 

\*

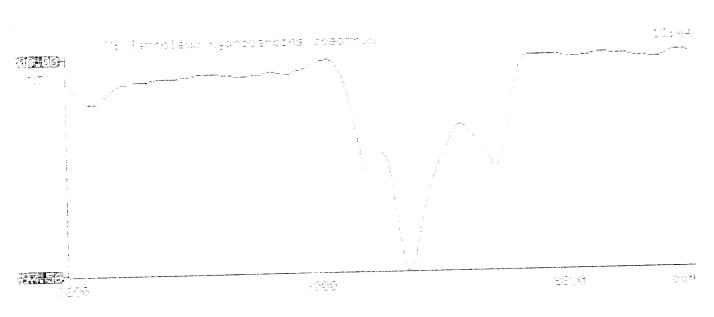
95/10/11 13:44

Sample identification 247609

initial mass of samole, 9 1.980

Volume of sample atter extraction, ml 13.000

Retroleum hydrocarbons, apm 2.656 net Ebservance of Milhodarbone (2930 ceml)



### **BTEX SOIL SAMPLE WORKSHEET**

File		:	947609	Date Printed : 10/11/95
Soil Mass	(g)	:	5.07	Multiplier (L/g) : 0.00099
Extraction vol.			10	DF (Analytical) : 200
Shot Volume	•		50	DF (Report) : 0.19724

					D	et. Limit
Benzene	(ug/L) :	0.19	Benzene	(mg/Kg):	0.037	0.493
Toluene	(ug/L) :	0.31	Toluene	(mg/Kg):	0.061	0.493
Ethylbenzene	(ug/L) :	0.00	Ethylbenzene	(mg/Kg):	0.000	0.493
p & m-xylene	(ug/L) :	0.46	p & m-xylene	(mg/Kg):	0.091	0.986
o-xylene	(ug/L) :	0.00	o-xylene	(mg/Kg):	0.000	0.493
•	, ,		Total xylenes	(ma/Ka):	0.091	1.479

Total xylenes (mg/Kg): 0.091 Total BTEX (mg/Kg): 0.189

### **EL PASO NATURAL GAS**

#### **EPA METHOD 8020 - BTEX SOILS**

File : C:\LABQUEST\CHROM000\101095-0.010 Method : C:\LABQUEST\METHODS\0-092095.MET

Sample ID : 947609,5.07G,50U Acquired : Oct 10, 1995 17:57:41 Printed : Oct 10, 1995 18:28:07

User : MARLON

#### Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	8.167	70498	0.1884
a,a,a-TFT	10.533	9380650	107.2248
TOLUENE	12.953	111628	0.3067
ETHYLBENZENE	17.170	0	0.0000
M, P-XYLENES	17.587	184473	0.4598
O-XYLENE	18.710	0	0.0000
BFB	19.903	52578592	95.4601

