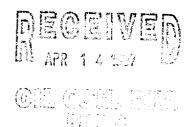
DEPUTY OIL & CASING FECTUR

DEC 2 2 1997

14 Martel

Meter Number:93174
Location Name:Jicarilla #116
Location:TN-24 RG-04
SC-07 UL-I
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:

Sandstone 10^{-9} to 10^{-13} cm/sec Shale 10^{-12} to 10^{-16} cm/sec Clay 10^{-12} to 10^{-15} cm/sec

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



Meter: 93174 Location: TICARILLA # 116 Operator #: 0148 Operator Name: Or Coordinates: Letter: I Section 7 Township: 24 Range: 4 Or Latitude Longitude Pit Type: Denyarator Location Orio: X Line Drio: Other: Site Assessment Date: 7-26-95 Area: 08 Run: 63					
NMOCD Zone:		Land Type:	\exists LM \Box (1)		
(From NMOCS			State <u> </u>		
Macs)	nside	$\frac{1}{2} \stackrel{(1)}{(2)}$	Fee(3)		
	Outside	$\overline{\Sigma}$ (2)	Indian TICARILLA		
Depth to Groundy Less Than 50 Feet 50 Ft to 99 Ft (10 Greater Than 100 F	(20 points) Opcints)	$ \begin{array}{c} $			
Wellhead Protection Area: Is it less than 1000 ft from wells, springs, or other sources of fresh water extraction?, or ; s it less than 200 ft from a private domestic water source? $=$ (1) YES (20 points) \overline{X} (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) $\overline{\Sigma}$ [3] Name of Surface Water Body					
(Surface Water Body : Perennial Rivers.Major Masn.Streams.Creeks, rrigation Canals.Ditanes.Lakes,Ponas,					
Distance to Nearest	Epnemera: Stre		100'(Navajo Pits Only) 100'		
TOTAL HAZARD RAN	KING SCORE: _	0	POINTS		
Remarks : T.D.					

ORIGINAL PIT LOCATION Original Pit: a) Degrees from North 290 Footage from Wellhead 163 b) Length: 16 Width: 16 Depth: 30'
16 163' WELL HEAD (PUMPIACK)
Remarks:
Completed By: All Continue 7-26-95 Signature Date

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 93/74 Location:
FIELD OBSERVATIONS	Sample Number(s): NS98 Sample Depth: 15 Feet Final PID Reading 1.5 PID Reading Depth 15 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 - 3 - 95 Pit Closed By: Philip
REMARKS	Remarks: PIO READINGS (N-1.5)(S-6.9)(E-0.4)(W-5.5) PH SIZE 21x22x15 PIH LISTED CUTSIOF W.V. ZCNE MORE THAN 100' FROM EPHEMERAL STREAM. EPNG CNSITE FENCE SIZE 28x28x3 (NET) Signature of Specialist: Nicholps Schmaltz



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	NS98	947537
MTR CODE SITE NAME:	93174	Jicari/la #116
SAMPLE DATE TIME (Hrs):	09-26-95	1200
PROJECT:	Tic Dits	
DATE OF TPH EXT. ANAL.:	9-27-05	
DATE OF BTEX EXT. ANAL.:	9/27/95	9/27/95
TYPE DESCRIPTION:	V6	Lindet troion Sand
•		7,1

Field Remarks:	
----------------	--

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS				
7,13,11,1		JOLI OMITO		a	M(g)	V(ml)	
BENZENE	L 0.5	MG/KG					
TOLUENE	4 0.5	MG/KG					
ETHYL BENZENE	4 0.5	MG/KG					
TOTAL XYLENES	< 1.5	MG/KG			<u> </u>		
TOTAL BTEX	43	MG/KG					
TPH (418.1)	<10	MG/KG			1.98	25	
HEADSPACE PID	1.5	PPM					
PERCENT SOLIDS	97.9	%			<u> </u>		

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

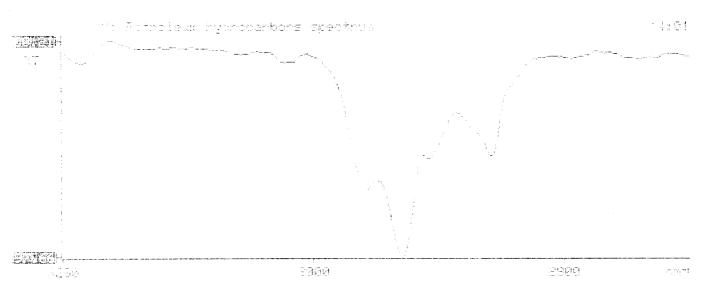
The Surrogate Recovery was at	<u>98%</u>	for this sample	All QA/QC was acceptable.
Narrative:			

DF = Dilution Factor Used

Annroved Bv:



Date: 9-29-95



BTEX SOIL SAMPLE WORKSHEET

File	: 94753	37	Date Printed	:	9/28/95	
Soil Mass (g)	5.0)2 M ul	ltiplier (L/g)	:	0.00100	
Extraction vol. (mL)	: 1	0 DF	(Analytical)	:	200	
Shot Volume (uL)	: 5	50 DF	(Report)	:	0.19920	
						Det. Limit
Benzene (ug/L)	: 0.1	5 B e	enzene (mg/Kg	3) :	0.030	0.498
Toluene (ug/L)	: 0.1	6 T	oluene (mg/Kg	3):	0.032	0.498

0.00

0.29

0.00

Ethylbenzene (ug/L):

p & m-xylene (ug/L):

o-xylene (ug/L):

p & m-xylene (mg/Kg): 0.058 0.996 o-xylene (mg/Kg): 0.000 0.498 Total xylenes (mg/Kg): 0.058 1.494

0.000

0.498

Total BTEX (mg/Kg): 0.120

Ethylbenzene (mg/Kg):

EL PASO NATURAL GAS EPA METHOD 8020 - BTEX SOILS

File Method : C:\LABQUEST\CHROM000\092795-0.010

Sample ID : 947537,5.02G,50U

: C:\LABQUEST\METHODS\9000.MET

Sample IL Acquired Printed

: Sep 27, 1995 20:26:04 : Sep 27, 1995 20:56:28

User

: MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	8.130	55039	0.1471
a,a,a-TFT	10.477	9209769	105.2716
TOLUENE	12.883	57987	0.1593
ETHYLBENZENE	17.170	0	0.0000
M, P-XYLENES	17.603	116714	0.2909
O-XYLENE	18.710	0	0.0000
BFB	19.863	53374960	97.9212

