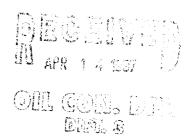
DEPUTY OIL & GAS INSPECTOR

DEC 2 9 1997

Meter Number: 72782
Location Name: Jicarilla C-17 PC
Location: TN-25 RG-05
SC-28 UL-D
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.

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FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: 72782 Location: Sicarilla C-17 PC Operator #: 0263 Operator Name: Texaco P/L District: Ojito Coordinates: Letter: D. Section Z8 Township: Z5N Range: Sw Or Latitude Longitude Pit Type: Dehydrator Location Drip: X Line Drip: Other: Site Assessment Date: 7-15-94 Area: 06 Run: 63
SITE ASSESSMENT	NMOCD Zone: (From NMOCD Maps) Inside Outside (2) Maps) Depth to Groundwater Less Than 50 Feet (20 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? 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? In 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: POINTS
RKS	Remarks: Redline VZ-outside Topo V.Zoutside
REMARKS	one pit-dry Push in

N(ORIGINAL PIT LOCATION ees from North 16 Footage from Wellhead 235 th : 16 Width : 13 Depth : 3
ORIGINAL, PIT LOCATION		Wellhead 235.
RKS	Remarks :	5-17-20
REMARK		
	Completed By: Signature	7-15-94 Date

The second se

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 22782 Location: Sica silla C-17 PC Coordinates: Letter: Describe Section Described Section Des
FIELD OBSERVATIONS	Sample Number(s): 5/52 Sample Depth: Feet Final PID Reading 23.9 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: 8-31-95 Pit Closed By: Phil P
REMARKS	Remarks: Pit Pickerchings (J-78)(5-6.4) (F-4.1) (W-176) Pit Size: J2X/7X14 Fence Size: 19X/6X3 No Net More than 100' Foot From EPhemral Street Signature of Specialist: Jan K. Kel



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	JK57	947327
MTR CODE SITE NAME:	72782	Jicarilla C-17 PC
SAMPLE DATE TIME (Hrs):	08-24-95	1509
PROJECT:	Jic Pits	
DATE OF TPH EXT. ANAL.:	E128/95	
DATE OF BTEX EXT. ANAL.:	E/2E/95	8/30/95
TYPE DESCRIPTION:	VG	Orona Clay

Field Remarks: $(N-7.8)(5-6.4)(E-4.1)(\omega-17.6)$

RESULTS

DADASETED	Drou T	INITO		QUALIFIERS			
PARAMETER	RESULT	UNITS	DF	Q	M(g)	V(mi)	
BENZENE	4.5	MG/KG					
TOLUENE	< .5	MG/KG					
ETHYL BENZENE	2.5	MG/KG					
TOTAL XYLENES	X 1.5	MG/KG					
TOTAL BTEX	< 3,	MG/KG					
TPH (418.1)	(1) (19) (8).5 (8).5	MG/KG			2.04	23	
HEADSPACE PID	23.9	PPM				1.4	
PERCENT SOLIDS	€9.8	%					

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

6-6-6-

The Surrogate Recovery was at	<u> 85% </u>	for this sample	All QA/QC was acceptable
Narrative:			

1

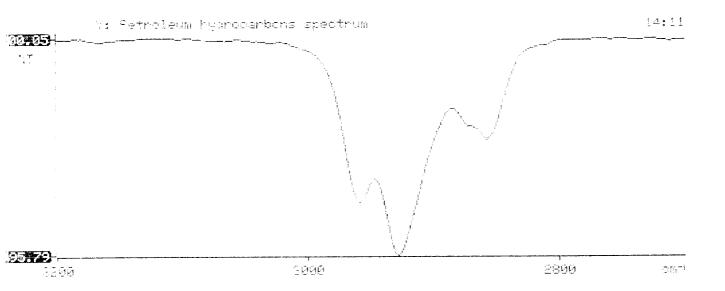
○5/08/29 14:11

Sample identification 947327 REPEAT FROM 8-28-95

initial mass of sample, g

Volume of sample after extraction, ml

Petroleum hydrocarbons, ppm 1.542 Tet absorbance of hydrocarbons (2930 cm-1)



BTEX SOIL SAMPLE WORKSHEET

File	:	947327	Date Printed	:	8/31/95
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 vylonos /malka	١٠ ٥ ٥ ٥ ٥	1 506

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\CHROM(001\083095-1.010 Method : C:\LABQUEST\METHODS\9001.MET

Sample ID : 947327,4.98G,100U Acquired : Aug 30, 1995 17:57:53 Printed : Aug 30, 1995 18:24:16

User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
		-	
BENZENE	3.377	0	0.0000
a,a,a TFT	4.900	2507220	84.2361
TOLUENE	6.737	101581	-0.6405
ETHYLBENZENE	10.487	0	0.0000
M & P XYLENE	10.860	0	0.0000
O XYLENE	11.903	0	0.0000
BFB	13.413	37820916	85.1364

