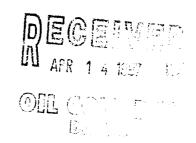
Meter Number:87548 Location Name: W.D. HEATH A #12 Location:TN-29 RG-12-9 W

> SC-17 UL-A 2 - Federal

NMOCD Zone:OUTSIDE Hazard Ranking Score:00



E 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:

10⁻⁹ to 10⁻¹³ cm/sec 10⁻¹² to 10⁻¹⁶ cm/sec 10⁻¹² to 10⁻¹⁵ cm/sec Sandstone Shale Clay

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

GENERAL	Meter: 87548 Location: _w.p. HEMM A # 12 Operator #: _0203
SITE ASSESSMENT	NMOCD Zone: (From NMOCD Maps) Inside Outside Outside Depth to Groundwater Less Than 50 Feet (20 points) Greater Than 100 Ft (0 points) Is it less than 1000 ft from wells, springs, or other sources of fresh water extraction?, or; ls it less than 200 ft from a private domestic water source? Horizontal Distance to Surface Water Body Less Than 1000 Ft (10 points) Greater Than 1000 Ft (0 points) (1) YES (20 points) (2) NO (0 points) Horizontal Distance to Surface Water Body Less Than 200 Ft (20 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: D POINTS
REMARAS	Remarks: Daly PIT ON LOCATION. PIT IS DRY, LOCATION IS JUST WEST OF HWY. 64 DUTSIDE BLANCO. REALINE AND TOPO CONFIRMED LOCATION TO REDUITSIDE THE V.Z. PUSH IN

1

(SP3190) 04/08/94

Z	Original Pit : a) Degrees from N	PIT LOCATION North <u>54°</u> Footage from Wellhead <u>1</u> 6 Width : <u>12'</u> Depth :2'
ORIGINAL PIT LOCATION		SYO 12'
	Remarks: TOOK PICTURES AT 11:12 AM. END DUMP	
REMARKS		
	Completed By:	
	ouripleted by.	
	Signature	<u>5.7.94</u> Date
	J.g.rataro	טענפ

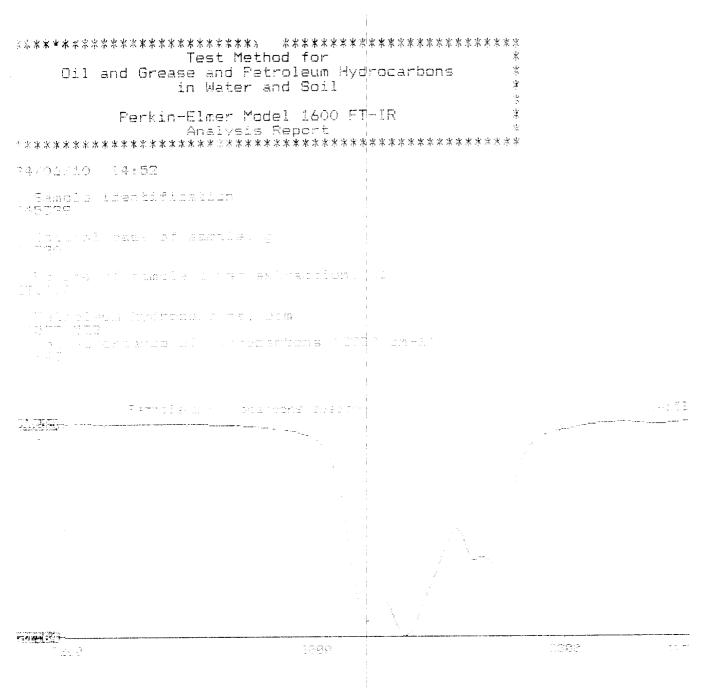
FIELY PIT REMEDIATION/CLOSUF FORM

GENERAL	Meter: 87548 Location: W.D. Heath A # 12 Coordinates: Letter: A Section 17 Township: 29 Range: 12 Or Latitude Longitude Date Started: 6-8-94 Area: 10 Run: 53
FIELD OBSERVATIONS	Sample Number(s): KD volume Volume
CLOSURE	Remediation Method: Excavation Onsite Bioremediation Backfill Pit Without Excavation Soil Disposition: Envirotech Other Facility Pit Closure Date: 6-8-94 Pit Closed By: BET
REMARKS	Remarks: Dug fest Hole to 12', Took PID Sample Closed pit Signature of Specialist: New Jews.



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

	SAMPLE	DENTIFICA	TION				
_	Field II	0		Lab ID			
SAMPLE NUMBER:	KD 101		94	945399			
MTR CODE SITE NAME:	87549	87548 N/A					
SAMPLE DATE TIME (Hrs):	6-3-94	6-3-94					
SAMPLED BY:	(0)10	I/A (-)					
DATE OF PTEX EXT. ANAL.:	61094 214 26		0110194				
DATE OF BTEX EXT. ANAL.: TYPE DESCRIPTION:			<u></u>	Fine Brown Sand Clay			
-					,	1	
REMARKS: _							
	R	ESULTS				· · · · · ·	
PARAMETER	RESULT	UNITS		QUALIFIERS			
			DF	Q	M(g)	V(ml)	
BENZENE		MG/KG			_ _		
TOLUENE		MG/KG					
ETHYL BENZENE		MG/KG					
TOTAL XYLENES		MG/KG					
TOTAL BTEX		MG/KG					
TPH (418.1)	10,600	MG/KG			0.98	<u> 28</u>	
HEADSPACE PID	402	PPM		.*		····	
PERCENT SOLIDS	85.6	%					
he Surrogate Recovery was at arrative:	— TPH is by EPA Method 418.	1 and BTEX is by EPA for this sampl		was accep	table.		
OF = Dilution Factor Used Approved By:	Lowe:		Date:	(0/16/0	ay		



ILLEGIBLE