DEPUTY OIL & GAS HURPERTUR

DEC 221997

Meter Number:94708
Location Name:L.C. KELLY #3E
Location:TN-30 RG-12
SC-04 UL-H
2 - Federal

NMOCD Zone: OUTSIDE Hazard Ranking Score: 00

PECEIVED

APR 1 4 1997

OIL CON. DIV

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.

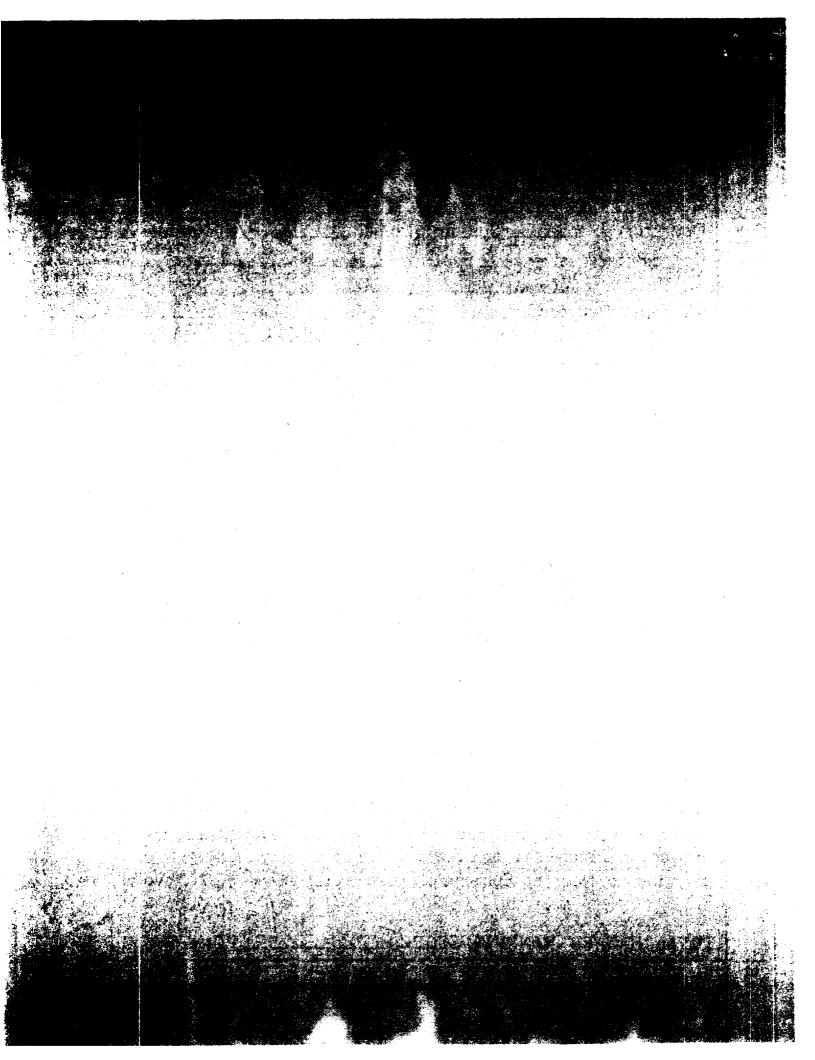
Based on the above information, it is highly unlikely that any source material will impact groundwater or ever find an exposure pathway to affect human health and therefore El Paso Field Services Company (EPFS) requests closure of this pit location.

FIELD PIT SITE ASSESSMENT FORM



1						
GENERAL	Meter: <u>94708</u> Location: <u>L.C. Κευ</u> γ #3ε					
	Operator #: 0203 Operator Name: Amoco P/L District: Kutz					
	Coordinates: Letter: H Section 4 Township: 30 Range: 12					
	Or Latitude Longitude					
	Pit Type: Dehydrator X Location Drip: Line Drip: Other:					
	Site Visit Date: 4.1.94 Run: 02 63					
SITE ASSESSMENT	NMOCD Zone: Inside Land Type: BLM (From NMOCD Vulnerable State Maps) Zone Mode Indian Indian					
	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?					
	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					
	(Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)					
	TOTAL HAZARD RANKING SCORE: POINTS					
S						
REMARKS	Remarks: THREE PITS ON LOCATION, WILL CLOSE ONLY ONE. PIT					
REN						

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FIEL PIT REMEDIATION/CLOSU FORM

GENERAL	Meter: 94708 Location: L.C. Kelly #3E Coordinates: Letter: # Section 4 Township: 30 Range: 12 Or Latitude Longitude Date Started: 5-10-94 Area: 02 Run: 63
FIELD OBSERVATIONS	Sample Number(s): $VW52$ Sample Depth: $5'$ Feet Final PID Reading 184 PID Reading Depth $5'$ Feet Yes No Groundwater Encountered \Box (1) \boxtimes (2) Approximate Depth \Box Feet
CLOSURE	Remediation Method: Excavation
	Soil Disposition: Envirotech (1) (3) Tierra Other Facility (2) Name: Pit Closure Date: 5-10-94 Pit Closed By: 3EI
REMARKS	Remarks: EPNG I.ve Mallus - 5' Hit Sandstone
	Signature of Specialist: Vale Wilson (SP3191) 04/07/94



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

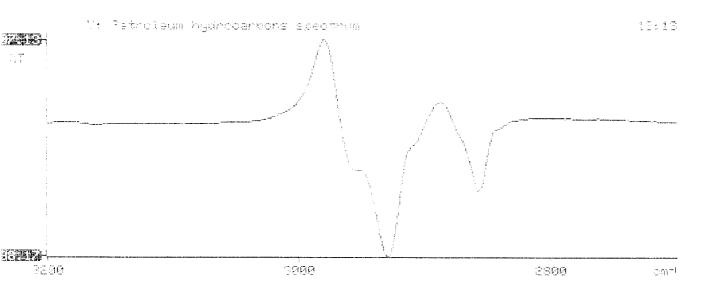
SAMPLE IDENTIFICATION

	Field	d ID		Lab ID		_	
SAMPLE NUMBER:	vwsz		9.19	9.15120			
MTR CODE SITE NAME:			N/A				
SAMPLE DATE TIME (Hrs):	5/ 10/94		1355				
SAMPLED BY:					/A		
DATE OF TPH EXT. ANAL.:	5):2)47 NA V6		NIA Couse light Brown				
DATE OF BTEX EXT. ANAL.:						Sand	
TYPE DESCRIPTION:							
)			
REMARKS: _							
		RESULTS			 -		
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)	42.0	MG/KG			2.1	28	
HEADSPACE PID	184	P PM					
PERCENT SOLIDS	89.2	%					
ne Surrogate Recovery was at	TPH is by EPA Method 4	18.1 and BTEX is by EPA % for this samp		was accer	otable.		

Volume of sample after extraction, ml

Patroleum hydrocarbons, ppm 190134

Net absorbance of hydrocarbone (2930 cm-1) .084



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