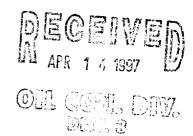
DEPUTY CLEAGES SECTION

DEC 2 9 1997

Approved

Meter Number:74203
Location Name:MCMANUS #2
Location:TN-25 RG-08
SC-04 UL-C
2 - Federal

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

GENERAL	Meter: 74203 Location: Mc Manus No 2 Operator #: Operator Name: Mecidian P/L District: Ballard Coordinates: Letter: Section 4 Township: 25 Range: 8 Letter: Longitude Or Latitude Longitude Pit Type: Dehydrator Location Drip: Other: Other: Site Assessment Date: 6-27-94
SITE ASSESSMENT	NMOCD Zone: (From NMOCD (From NMOCD Maps) Inside Outside (2) Indian 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? (1) YES (20 points) Horizontal Distance to Surface Water Body Less Than 200 Ft (20 points) (2) Greater Than 1000 Ft (0 points) (3) 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: → POLINTS
	TOTAL HAZARD RANKING SCORE: POINTS
REMARKS	Remarks: One prt on location. Dry
MA	outside V.Z. on Redline & Topo
RE	The property of the property o

ORIGINAL PIT LOCATION
rees from North <u>260</u> Footage from Wellhead <u>215</u> gth: <u>19</u> Width: <u>18</u> Depth: <u>1</u>
wellhead

/ .	
Photos- 1405	
Tho105- 1405	

Signature

Date

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 74203 Location: MCMANUS # Z Coordinates: Letter: C Section 4 Township: 25 Range: 866 Or Latitude Longitude Date Started: 9/28/94 Run: 11 21
FIELD OBSERVATIONS	Sample Number(s): KD 285 KD 286 KD 287 Sample Depth: 6' Feet Final PID Reading 328 ppm PID Reading Depth 6' Feet Yes No Groundwater Encountered Approximate Depth Feet
CLOSURE	Remediation Method: Excavation
REMARKS	Remarks: Excavated test Hole to 6', Hit Rock, Took pid Sample, Closed pit. Signature of Specialist:



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Outside the GWV Zone

_	SAMPLE	IDENTIFICA	HON			
	Field	ID		Lab ID		
SAMPLE NUMBER:	KD 28	446239				
MTR CODE SITE NAME:	74/203		N/A			
SAMPLE DATE TIME (Hrs):	9-28-94	1	1515			
SAMPLED BY:		N/	/A			
DATE OF TPH EXT. ANAL.:	9-29-0	74	9.29-94			
ATE OF BTEX EXT. ANAL.:	NIA		NIA			
TYPE DESCRIPTION:	VG		Greyfine sand & alay			
			111		,	
REMARKS:						
		DECULTO		<u> </u>		
	<u> </u>	RESULTS				
PARAMETER	RESULT	UNITS	QUALIFIERS DF Q M(g) V(r			V(ml)
	_	<u> </u>	UF	<u>u</u>		
TPH (418.1)	2,740	MG/KG			12.03	28
HEADSPACE PID	328	PPM				
PERCENT SOLIDS	78,4	%				
TERCEIVI BOLLLO	<u> </u>	TPH is by EPA Metho	od 418.1			
arrative:						

Approved By:

94/09/29 13:28

Sample identification 946239

Initial mass of sample, g

Volume of sample after extraction, ml 38.000

Fetroleum hydrocarbons, ppm 2739.671 Net absorbance of hydrocarbons (2930 cm-1) 0.349

