DEPUTY OIL & GAS INSPECTOR

DEG 2 2 1997

Meter Number:94388 Location Name:MADDOX WN FEDERAL #4E

Location:TN-30 RG-13 SC-24 UL-D

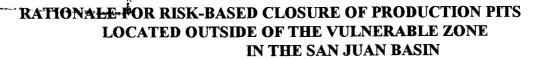
2 - Federal

NMOCD Zone:OUTSIDE

Hazard Ranking Score:00

DEGEIVED APR 1 4 1297

] .HOD 110 | .Teid



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 FORMEL PASO FIELD SERVICES

GENERAL	Meter: 94388 Location: MADOOX WN FEDERAL #45  Operator #: 0286 Operator Name: CONOCO P/L District: KUTZ  Coordinates: Letter: D Section 24 Township: 30 Range: 13  Or Latitude Longitude  Pit Type: Dehydrator X Location Drip: Line Drip: Other:  Site Visit Date: 3.25.94 Run: 02 31
SITE ASSESSMENT	NMOCD Zone: Inside Land Type: BLM    (From NMOCD Vulnerable
REMARKS	Remarks: Two PITS ON LOCATION. WILL CLOSE ONLY ONE. PIT IS DRY.  (SP3190) 03/16/94

,	ORIGINAL PIT LOCATION
LOCATION	Original Pit : a) Degrees from North <u>305°</u> Footage to Wellhead <u>93'</u> b) Degrees from North Footage to Dogleg  Dogleg Name
	c) Length : <u>20'</u> Width : <u>19'</u> Depth : <u>3'</u>
ORIGINAL PIT LOC	NELLHEAD  305°
REMARKS	Remarks:  STARTED TAKING PICTURES AT 7:34 A.M.  END DUMP
RE	
	Completed By:  3.25.94  Signature  Date

## F-LD PIT REMEDIATION/CLC-URE FORM

GENERAL	Meter: 94388 Location: MALAOX WN Federal #4E  Coordinates: Letter: D Section 24 Township: 30 Range: 13  Or Latitude Longitude  Date Started: 4-21-94 Area: 02 Run: 31
FIELD OBSERVATIONS	Sample Number(s): KD (7  Sample Depth: 12′ Feet  Final PID Reading 322 مرم PID Reading Depth 12′ Feet  Yes No  Groundwater Encountered (1) (2) Approximate Depth Feet
CLOSURE	Remediation Method:  Excavation
	Soil Disposition:  Envirotech (1) (3) Tierra  Other Facility (2) Name:  Pit Closure Date: 4-21-94 Pit Closed By: BET
REMARKS	Remarks: Duy test Hole to 12', Took PID Reading Closed Pit
, <del>-</del>	Signature of Specialist: Many Im



## FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

## SAMPLE IDENTIFICATION

	Field IC	)		Lab ID			
SAMPLE NUMBER:	(DIT		946853				
MTR CODE   SITE NAME:	94388		NIA				
SAMPLE DATE   TIME (Hrs):	4/2/194		0930				
SAMPLED BY:							
DATE OF TPH EXT.   ANAL.:	4-22-94		4-22-94				
ATE OF BTEX EXT.   ANAL.:	NIA		NIA				
TYPE   DESCRIPTION:		COARSE SANO					
REMARKS:	R	ESULTS					
PARAMETER	RESULT	UNITS		QUALIF	IERS		
PANAIVIETEN			DF	a	M(g)	V(ml	
BENZENE		MG/KG					
TOLUENE		MG/KG				· <u>-</u>	
ETHYL BENZENE		MG/KG				<u> </u>	
TOTAL XYLENES		MG/KG					
TOTAL BTEX		MG/KG					
TPH (418.1)	692	MG/KG			2.02	28	
	322	PPM					
HEADSPACE PID			1	I	ı		
HEADSPACE PID PERCENT SOLIDS	92,1%	%					

Test Method for Oil and Grease and Petroleum Hydrocarbons in Water and Soil Perkin-Elmer Model 1600 FT-IR Analysis Report \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* 4/04/22 13:13 Sample identification 40853 Initial mass of sample, g Volume of sample after extraction, ml 9.000 Petroleum hydrocarbons, ppm 91.808 Net absorbance of hydrocarbons (2930 cm-1) .099

