Meter Number:87245 DEPUTY OIL & GAS INSPECTORcation Name: SAN JUAN 29-5 UNIT #52

DEC 3 0 1997

Location:TN-29 RG-05 SC-29 UL-G 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:

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.

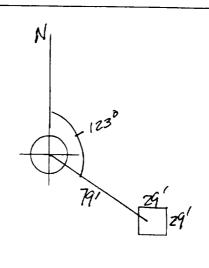


FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: 87245 Location: SAN JUAN 29-5 UNIT #52 Operator #: 7035 Operator Name: PHILLIPS P/L District: BLOOMFIELD Coordinates: Letter: Section 29 Township: 29 Range: S Or Latitude Longitude Pit Type: Dehydrator Location Drip: X Line Drip: Other: Site Assessment Date: Area: /O_ Run: /O_
	NMOCD Zone: Land Type: BLM ☑ (1) (From NMOCD State ☐ (2) Maps) Inside ☐ (1) Fee ☐ (3) Outside ☑ (2) Indian ☐ Depth to Groundwater ☐ (1) ☐ (1) Less Than 50 Feet (20 points) ☐ (1) ☐ (2) 50 Ft to 99 Ft (10 points) ☐ (2) Greater Than 100 Ft (0 points) ☑ (3)
SITE ASSESSMENT	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) ☒ (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: ONE PIT ON DOCATION.
REMARKS	PUSH-IN
12	/cp3190) 04/08/9

ORIGINAL.	דזק	LOCATION	r
OMUDINAL	ГП	LUCATION	i

Original Pit: a) Degrees from North <u>23°</u> Footage from Wellhead <u>79'</u> b) Length: <u>29'</u> Width: <u>29'</u> Depth: <u>5'</u>



Remarks :	_
PHOTOGRAPHS	AH-4 (14-18)

REMARKS

Completed By:

Signature

Date

FIELD PIT REMEDIATION/CLOSUR FORM

GENERAL	Meter: 87245 Location: SaN Jeun 29-5 un + #52 Coordinates: Letter: 6 Section 29 Township: 29 Range: 5 Or Latitude Longitude Date Started: 6-22-94 Area: 10 Run: 61
FIELD OBSERVATIONS	Sample Number(s): MK21 Sample Depth: J2 Feet Final PID Reading 105 PID Reading Depth 12 Feet Yes No Groundwater Encountered (1) (2) Approximate Depth Feet
CLOSURE	Remediation Method: Excavation
DEMARKS	Remarks: // NOS NORK ON SITE SOIL WOS BRICK 94 12' Signature of Specialist: Morgan Xillion (SP3191) 04/07/9



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	MK 21	945498
MTR CODE SITE NAME:	87245	N/A
SAMPLE DATE TIME (Hrs):	10-22-94	0913
SAMPLED BY:		N/A
DATE OF TPH EXT. ANAL.:	6 23 94	6/23/94
DATE OF BTEX EXT. ANAL.:	NIA	N/A
TYPE DESCRIPTION:	V G	Black sand & Clay
·		

REMARKS:	

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
PANAMETER			DF	Q	M(g)	V(ml)
BENZENE		MG/KG				
TOLUENE		MG/KG				
ETHYL BENZENE		MG/KG				
TOTAL XYLENES		MG/KG				
TOTAL BTEX		MG/KG				
трн (418.1) 42	5 430	July 6/26/94 MG/KG			2.17	23
HEADSPACE PID	105	PPM				
PERCENT SOLIDS	84.6	%				

- TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020
Months of the sample All QA/QC was acceptable.

The Surrogate Recovery was at Narrative:

DF = Dilution Factor Used

Annroved Rv. Mr. Fruit.

Date: 7/14/94

Test Method for Oil and Grease and Petroleum Hydrocarbons in Water and Soil

Perkin-Elmer Model 1600 FT-IR Analysis Report ******************

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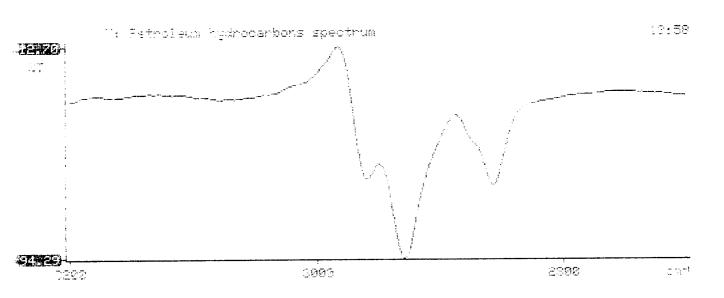
Sample identification 745195

foiblel sass of sample, g 0.170

Allege of sample after extraction, al $12.000\,$

Setroleum hydrocarbons, ppm 55.006

Met absorbance of hydrocarbons (2930 cm-1) 1.050



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