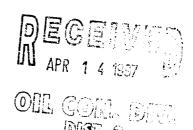
DEPUTY OIL & GAS WASPECTOR

DEC 0 2 1997

Meter Number:72376
Location Name:SAN JUAN 32-8 #17 MV
Location:TN-31 RG-08
. SC-23 UL-M
. 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

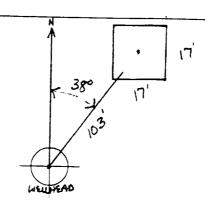
GENERAL	Meter: 72376 Location: SAN JUAN 32-8 #17 MV  Operator #: 7035 Operator Name: PHILUPS P/L District: BLOOMERELD  Coordinates: Letter: M. Section 23 Township: 31 Range: \$  Or Latitude Longitude  Pit Type: Dehydrator X Location Drip: Line Drip: Other:  Site Assessment Date: S.7.94
SITE ASSESSMENT	NMOCD Zone:  (From NMOCD  Maps)  Inside  Outside  Outside  Depth to Groundwater  Less Than 50 Feet (20 points)  Greater Than 100 Ft (0 points)  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)  Greater Than 1000 Ft (0 points)  Greater Than 200 Ft (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 Canais, Ditches, Lakes, Ponds)  Distance to Nearest Ephemeral Stream  (1) < 100'(Navajo Pits Only)  (2) > 100'  TOTAL HAZARD RANKING SCORE:  O  POINTS
REMARAS	Remarks: DNLY PIT ON LOCATION. PIT IS DRY. LOCATION IS UP ON A MESA. REDLUKE AND TOPO CONFIRMED LOCATION TO BE OTHITSIDE THE V.Z.  PUSH IN

LOCATION
PIT
ORIGINAL

### ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North <u>38°</u> Footage from Wellhead <u>103′</u>

b) Length : \_\_\_\_\_\_Y' \_\_\_\_ Depth : \_\_\_\_\_\_Y'



	Remarks:
	TOOK PICTURES AT 8:37 A.M.
	END DUMP
REMARKS	
AR	
J.W.	
RE	
İ	
	Completed By:

Signature

5.7.94

Date

## FIELL 2IT REMEDIATION/CLOSU. FORM

GENERAL	Meter: 72376 Location: SenJuch 32-8 #17 MV  Coordinates: Letter: M Section 23 Township: 31 Range: 9  Or Latitude Longitude Date Started: 6-2-44 Area: 10 Run: 63
FIELD OBSERVATIONS	Sample Number(s): $10^{1/2}$ Sample Depth: $12^{1/2}$ Feet  Final PID Reading $2^{1/2}$ PID Reading Depth $2^{1/2}$ Feet  Yes No  Groundwater Encountered $2^{1/2}$ (2) Approximate Depth $2^{1/2}$ Feet
CLOSURE	Soil Disposition:
	Other Facility (2) Name:
REMARKS	Remarks: Line Matters all over the place.
	Signature of Specialist: Vals Wilson (SP3191) 04/07/9



# FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

#### SAMPLE IDENTIFICATION

	SAIVIPLE I	DENTIFICA				
	Field I	D	Lab ID			
SAMPLE NUMBER:	VW 171		945343			
MTR CODE   SITE NAME:	72376		N/A			
SAMPLE DATE   TIME (Hrs):	4-2-94		1225			
SAMPLED BY:			N/A			
ATE OF TPH EXT.   ANAL.:		-94	6694			
TE OF BTEX EXT.   ANAL.:	N/A		Ru (1) too 101 a			
TYPE   DESCRIPTION:	∨	Briun Clay & Sand Stone				
DEMARKS.				I		
REMARKS: _						
	F	RESULTS			<del></del>	
			<del></del>	<del></del>		
PARAMETER	RESULT	UNITS	DF	QUALIF Q	M(g)	V(mi)
BENZENE		MG/KG				
TOLUENE		MG/KG				
ETHYL BENZENE		MG/KG				
TOTAL XYLENES		MG/KG				
TOTAL BTEX		MG/KG				
TPH (418.1)	<10	MG/KG			2.01	78
HEADSPACE PID	7	PPM				
PERCENT SOLIDS	88.1	%				<u></u>
Surrogate Recovery was at	TPH is by EPA Method 4	18.1 and BTEX is by EPA % for this samp		was acce	ptable.	
rative:	14/17					

**OF** = Dilution Factor Used

Approved By: John Jarda

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

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

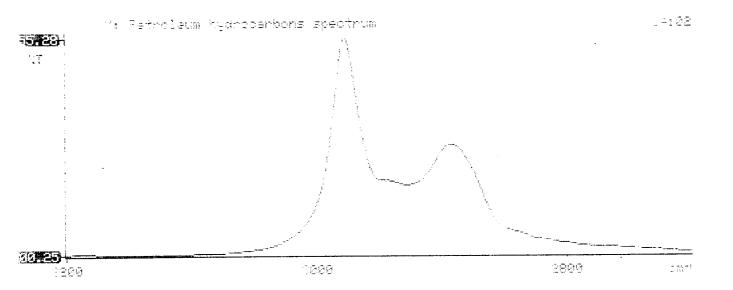
74/06/06 14:02

Sample identification #45343

Initial mass of sample, g

Volume of sample after extraction, ml 13.000

Patroleum hydrocarbons, ppm -375.225 Net absorbance of hydrocarbons (2930 cm-1) -0.069



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