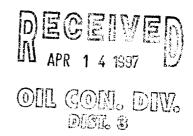
DEPUTY OIL & GAS INSPECTOR

DEC 22 1997

AMERICAN

Meter Number:89751
Location Name:FIELDS A #1A
Location:TN-32 RG-11
SC-25 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: 89-751 Location: Fields A No. 1A Operator #: 0203 Operator Name: Production P/L District: Aztec Coordinates: Letter: C Section 25 Township: 32 Range: 11 Or Latitude Longitude Pit Type: Dehydrator Location Drip: X Line Drip: Other: Site Assessment Date: 8/3/94 Area: 04 Run: 31							
SITE ASSESSMENT	NMOCD Zone: (From NMOCD Maps) Inside Outside Outside Depth to Groundwater Less Than 50 Feet (20 points) Total Hazard Ranking Score: Land Type: BLM (1) State (2) Indian Depth to Groundwater Less Than 50 Feet (20 points) (3) Wellhead Protection Area: Is it less than 1000 ft (70 points) (2) Outside (1) YES (20 points) (2) No (0 points) (2) Greater Than 1000 Ft (10 points) (2) Greater Than 1000 Ft (10 points) (3) Name of Surface Water Body (2) Canyon (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:							
KS.	1 011(13)							
REMARKS	Remarks: Redline Book-Outside Vulnerable Zone Tape-Outside Four pits on site, location drip pit has liquid in it. Will close one sit							
REI	ciac one pil.							
	PUSH IN							

FIEL PIT REMEDIATION/CLOSULE FORM

GENERAL	Meter: 8975 Location: Fields A. No. 1A Coordinates: Letter: C Section 25 Township: 32 Range: 11 Or Latitude Longitude Date Started: 10-4-94 Run: 04 31
FIELD OBSERVATIONS	Sample Number(s): KP 284 Sample Depth: Feet Final PID Reading PID Reading Depth Feet Yes No Groundwater Encountered
CLOSURE	Remediation Method: Excavation
REMARKS	
1	Signature of Specialist: Kelly Padilla

(SP3191) 03/16/94



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Outside the GWV Zone

SAMPLE IDENTIFICATION

	JAIVII LL I	DENTIFICA					
	Field I						
SAMPLE NUMBER:	KP 28	946311					
MTR CODE SITE NAME:				N/A			
SAMPLE DATE TIME (Hrs):				1945			
SAMPLED BY:		Α					
DATE OF TPH EXT. ANAL.:	E OF TPH EXT. ANAL.: 10-6-94						
DATE OF BTEX EXT. ANAL.:	NIA		NIA				
TYPE DESCRIPTION: VG Brown Grey sand & clay							
REMARKS:	F	RESULTS					
PARAMETER	RESULT	UNITS		QUALIFIERS			
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			DF	Q	M(g)	V(ml)	
TPH (418.1)	19500	MG/KG			0.55	28	
HEADSPACE PID	100	PPM					
PERCENT SOLIDS	89.7	%					
		TPH is by EPA Metho	od 418.1				
arrative:			****				
F = Dilution Factor Used							
, = Dilation (doto)							
10				10/13/	011		

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

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

94/10/06 13:23

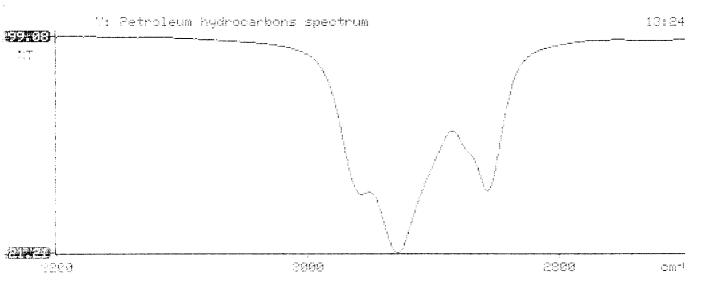
Sample identification 946311

Initial mass of sample. q

Volume of sample after extraction, ml

Retroleum hydrocarbons, ppm 19526.461

Met absorbance of hydrocarbons (2930 cm-1) 0.665



*

*

*