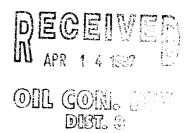
DEPUNCILS SAS MONTHERS

DEC 22 116

Agoreval

Meter Number:70161
Location Name:KELLY #1
Location:TN-30 RG-10
SC-35 UL-H
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

l						
GENERAL	Meter: 70161 Location: KELLY #1					
	Operator #: 2999 Operator Name: MERIDIANP/L District: BLOOMFIELD					
	Coordinates: Letter: H Section 34 Township: 30 Range: 10					
ENE	Or Latitude Longitude					
೮						
	Pit Type: Dehydrator Location Drip: X Line Drip: Other:					
	Site Visit Date: <u>4.15.94</u> Run: <u>10</u> <u>83</u>					
	NMOCD Zone: Inside Land Type: BLM X (From NMOCD Vulnerable State Maps) Zone Fee Outside Indian					
SITE ASSESSMENT	Depth to Groundwater Less Than 50 Feet (20 points) 50 Ft to 99 Ft (10 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? YES (20 points) NO (0 points) Horizontal Distance to Surface Water Body Less Than 200 Ft (20 points) 200 Ft to 1000 Ft (10 points) Greater Than 1000 Ft (0 points) Name of Surface Water Body (Surface Water Body ————————————————————————————————————					
	Irrigation Canals, Ditches, Lakes, Ponds)					
	TOTAL HAZARD RANKING SCORE: POINTS					
REMARKS	Remarks: ONLY PIT ON LOCATION. PIT IS DRY.					
3MA						
RI						

FIELY PIT REMEDIATION/CLOSU FORM

	Meter: <u>70161</u> Location: <u>Kelly *1</u>
GENERAL	Coordinates: Letter: H Section 35 Township: 30 Range: 10 Or Latitude Longitude Longitude Date Started: 10 Run: 83
LIONS	Sample Number(s): MK10
OBSERVATIONS	Sample Depth: Feet Final PID Reading 97 PID Reading Depth Feet
FIELD OF	Yes No Groundwater Encountered □ (1) ☑ (2) Approximate DepthFeet
CLOSURE	Remediation Method: Excavation
	Soil Disposition: Envirotech (1) (3) Tierra Other Facility (2) Name:
	Pit Closure Date: 24 Pit Closed By: 355
REMARKS	Remarks: <u>CANG. line myskess</u> , Grey soil with stant highwarden son?
	Signature of Specialist: Margan Xillia

(SP3191) 04/07/94



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

SAMPLE NUMBER:	MK 70 AME: 70161 Hrs): 6-6-94 N/ IAL.: 6-7-94 N/A			Lab ID イルミスコ O N/A		
 -			945			
MTR CODE SITE NAME:						
SAMPLE DATE TIME (Hrs):			1445 N/A			i
SAMPLED BY:						
DATE OF TPH EXT. ANAL.:						
DATE OF BTEX EXT. ANAL.:				N 19		
TYPE DESCRIPTION:			grey sand			
REMARKS:						
		RESULTS				
PARAMETER	RESULT	T UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE		MG/KG				
TOLUENE		MG/KG				
ETHYL BENZENE		MG/KG				
TOTAL XYLENES		MG/KG				
TOTAL BTEX		MG/KG				
TPH (418.1)	2600	MG/KG			2.08	28
HEADSPACE PID	97	PPM				
PERCENT SOLIDS	91.2	%				
	- TPH is by EPA Method 4					
e Surrogate Recovery was at irrative:	NIA	% for this samp	le All QA/Q(was accep	table.	

********************** Test Method for Dil and Grease and Petroleum Hydrocarbons in Water and Soil

Perkin-Elmer Model 1600 FT-IR Analysis Report

94/06/07 15:11

Sample identification -4537Ô

Initial mass of sample, g 1,680

Volume of sample after extraction, mi ~B.coo

Petroleum hydrocarbons, pom 1578.776 Net absorbanc of hydrocarbons (2930 cm-1)

