Danny & Fourt

DEC 22 1997

Meter Number:70992 tion Name:SAN JUAN 30-6 UNIT #99 (Pit #1)

> Location:TN-30 RG-07 SC-34 UL-M

> > 4 - Fee

NMOCD Zone: OUTSIDE Hazard Ranking Score: 00

DECEIVED APR 1 4 1997

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: 70982 Location: SAN JUAN 30-6 UNIT 7799 Operator #: 2999 Operator Name: MERIDIAN P/L District: BLOWN FIELD Coordinates: Letter: M Section 34 Township: 30 Range: 7 Or Latitude Longitude Pit Type: Dehydrator Location Drip: X Line Drip: Other: Site Assessment Date: 5/11/94 Area: 10 Run: 72			
SITE ASSESSMENT	CD Zone: Manual Content			
	(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: TWO PITS ON LOCATION. CLOSE ONE PIT. PIT IS DRY, REDUNE & TOPO CONFIRMED COCATION IS OUTSIDE V.Z.			
REMARKS	PUSH IN			

	Meter: 20992 Location: San Juan 30-6 Unit #99
GENER	Coordinates: Letter: M Section 34 Township: 30 Range: 7
를 달	Or Latitude Longitude
l	Date Started : 6-1-94 Area: 10 Run: 72
FIELD OBSERVATIONS	Sample Number(s): WH39 Feet Sample Depth: 9 Feet Final PID Reading 22 PID Reading Depth 9 Feet Yes No , Groundwater Encountered (1) (2) Approximate Depth Feet
URE	Remediation Method: Excavation Onsite Bioremediation Backfill Pit Without Excavation (3)
CLOSU	Soil Disposition: Envirotech (1) (3) Tierra Other Facility (2) Name: Pit Closure Date: 6-1-94 Pit Closed By: BFJ
REMARKS	
4	Signature of Specialist: Vale Wilsen

(SP3191) 04/07/94



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID	
SAMPLE NUMBER:	vw 157	945314	
MTR CODE SITE NAME:	70 992	N/A	
SAMPLE DATE TIME (Hrs):	12-1-9-1	0910	
SAMPLED BY:		N/A	
DATE OF TPH EXT. ANAL.:	6/10/94	6/10/94	
DATE OF BTEX EXT. ANAL.:	N A	NIA	
TYPE DESCRIPTION:		Promo de toma	

REMARKS: * RERUN TPH

RESULTS

PARAMETER	RESULT	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)	97.0	MG/KG			1.99	28
HEADSPACE PID	227	PPM				
PERCENT SOLIDS	84.4	%		·		

- TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020 -

The Surrogate	Recovery	was	at
Narrative:			

% for this sample All QA/QC was acceptable.

DATE OF

DF = Dilution Factor Used

Date: 6/16/44



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field	i ID		Lab ID			
SAMPLE NUMBER:	V W 157		945314				
MTR CODE SITE NAME:	70992			N/A			
SAMPLE DATE TIME (Hrs):	6-1-94		09	09,0			
SAMPLED BY:			N/A	/A			
DATE OF TPH EXT. ANAL.:	6-3.	74	63	63194			
DATE OF BTEX EXT. ANAL.:	214		NIA				
TYPE DESCRIPTION:	VG		BROWNE	BROWN CLAY + JAND			
REMARKS:		RESULTS					
PARAMETER	RESULT	UNITS		QUALIF	QUALIFIERS		
			DF	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)	1900	MG/KG			2.01	28	
HEADSPACE PID	727	PPM				<u> </u>	
PERCENT SOLIDS	36.4	%	1				
	- TPH is by EPA Method						
The Surrogate Recovery was at Narrative:	utside	% for this samp	- reed	was accep			
DF = Dilution Factor Used							
Approved By:			Date:				

