Denny & Fourt
DEPUTY OIL & GAS INSPECTION N

DEC 3 0 1997

Meter Number:70153

me:SAN JUAN 29-6 #12(OWWO)MV

Location:TN-29 RG-06

SC-06 UL-H

4 - Fee

NMOCD Zone:OUTSIDE

Hazard Ranking Score:00

DECETVED N 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

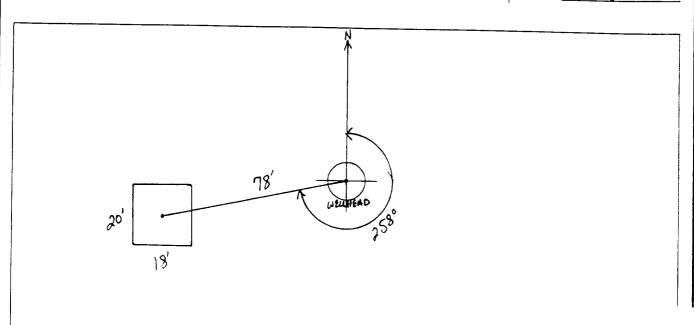
GENERAL	Meter: 70153 Location: SAN JUAN 29-6 UM. # 12 (OWWO) MV Operator #: 7035 Operator Name: PHILLIPS P/L District: BloomFIELD Coordinates: Letter: H Section 6 Township: 29 Range: 6 Or Latitude Longitude Pit Type: Dehydrator X Location Drip: Line Drip: Other: Site Assessment Date: 5.17.94 Area: 10 Run: 51				
SITE ASSESSMENT	NMOCD Zone: (From NMOCD Maps) Inside Outside Land Type: State (1) State (2) Fee (3) Indian Indian				
	Depth to Groundwater Less Than 50 Feet (20 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) (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 Canais, Ditches, Lakes, Ponds) Distance to Nearest Ephemeral Stream (1) < 100'(Navajo Pits Only) (2) > 100'				
	TOTAL HAZARD RANKING SCORE: POINTS				
REMARKS	Remarks: ONLY PIT ON LOCATION. PIT IS DRY. PIT HAS THANK NEXT TO IT. LOCATION IS ON TOP OF SMITH PASS. REDLINE AND TOPO CONFIRMED LOCATION IS OUTSIDE V.Z.				

REMARKS

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North <u>258°</u> Footage from Wellhead <u>78'</u>

b) Length : 20' Width : 18' Depth : 2'



Remarks	:

教育教育医院的对话情况 "解决的前。

DUMP TRUCK-BOBTALL

JUMP / RUCK - HOBTALL

Completed By:

Signature

5:17:94 Date

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 7015 3 Location: SAN Juan 29-6 UN # 12 (00100) my Coordinates: Letter: # Section 6 Township: 29 Range: 6 Or Latitude Longitude Date Started: 7-14-94 Run: 10 51			
FIELD OBSERVATIONS	Sample Number(s): mk/37 Sample Depth: <a <="" href="mailto://oincline.com/oinclin</th></tr><tr><th>CLOSURE</th><th></th></tr><tr><th>DEMARKS</th><td>Remarks: FPNG INC Marked Soil Grey strong HYDrockschon odor Hit Sand Stone 10" td="">			
	Signature of Specialist: Morgan Xillian (SP3191) 03/16/9			



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID	
SAMPLE NUMBER:	MK 137	945478	
MTR CODE SITE NAME:	70153	N/A	
SAMPLE DATE TIME (Hrs):	7-14-94	1654	
SAMPLED BY:	N/A		
DATE OF TPH EXT. ANAL.:	7/19/94	7/19/94	
DATE OF BTEX EXT. ANAL.:	NIA	2 14	
TYPE DESCRIPTION:	٧.	Hi Gray Clay	

RESULTS

REMARKS:

PARAMETER	RESULT UNITS	UNITS	QUALIFIERS			
PANAMETEN		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)	10 40	MG/KG			7.02	28
HEADSPACE PID	278	PPM				
PERCENT SOLIDS	89.60	iklu %				

	— TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020 —			
The Surrogate Recovery was at Narrative:	NIA	% for this sample	All QA/QC was acceptable.	

DF = Dilution Factor Used

AK.

Date: 8894

Test Methud for Oil and Grease and Fetroleum Hydrocarbons in Water and Soil Parkin-Elmar Model 1600 FT-IR Analysis Report lvaslo Liertii Dotulies 1975