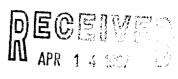
Meter Number:73774 Location Name: PAN AMERICAN FEDERAL GC 1

Location:TN-30 RG-11 SC-31 UL-O

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:

10⁻⁹ to 10⁻¹³ cm/sec Sandstone 10⁻¹² to 10⁻¹⁶ cm/sec Shale 10⁻¹² to 10⁻¹⁵ cm/sec Clav

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.

(SP3190) 03/16/84

GENERAL	Meter: 73774 Location: PAN AMERICAN FEDERAL GAS COM #1 Operator #: 0203 Operator Name: Amoco P/L District: KUTZ Coordinates: Letter: O Section 31 Township: 30 Range: 11 Or Latitude Longitude Pit Type: Dehydrator X Location Drip: Line Drip: Other: Site Visit Date: 3.18.94 Run: 02 41				
NMOCD Zone: Inside Land Type: BLM					
REMARKS	Remarks: THREE PITS ON LOCATION. WILL ONLY CLOSE ONE OF THEM. PIT IS DRY.				

	ORIGINAL PIT LOCATION
ORIGINAL PIT LOCATION	Original Pi [†] : a) Degrees from North <u>46°</u> Footage to Wellhead <u>165′</u> b) Degrees from North Footage to Dogleg
	Dogleg Name c) Length : <u>14'</u> Width : <u>13'</u> Depth : <u>/'</u>
	N 46° WELLHEAD
	Remarks: STARTED TAKING PICTURES AT 3:20 P.M. END DUMP
	ZAO DUTTI
RKS	
REMARKS	
R	
	Completed By: Signature 3.18.94 Date

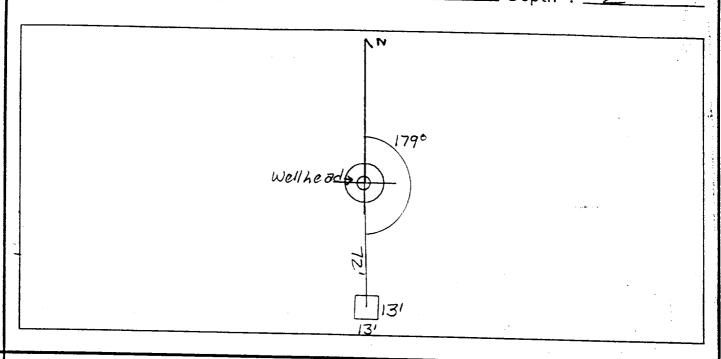
FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: 73-744 Location: Mickson (O (Pi+1) Operator #: 0177 Operator Name: Energy Co. P/L District: Ballard Coordinates: Letter: O Section 14 Township: Z6 Range: 8 Or Latitude Longitude Pit Type: Dehydrator Location Drip: X Line Drip: Other: Site Assessment Date: 9/27/94 Area: 07 Run: 51						
SITE ASSESSMENT	NMOCD Zone: (From NMOCD Maps) Inside Outside (2) Maps) Depth to Groundwater Less Than 50 Feet (20 points) Greater Than 100 Ft (0 points) 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? Horizontal Distance to Surface Water Body Less Than 1000 Ft (10 points) (2) Greater Than 100 Ft (20 points) (3) Horizontal Distance to Surface Water Body Less Than 200 Ft (20 points) (3) Name of Surface Water Body (4) Greater Than 1000 Ft (10 points) (5) Name of Surface Water Body (5) Careater Body: Ca						
REMARKS	Remarks: Redline Book-Inside Vulnerable Zone Topo- Outside Four pits on site, location drip pit #1 is dry. Will close one pit: PUSH IN						

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 179° Footage from Wellhead 721

b) Length : 13' Width : 13' Depth : 2'



	Remarks: Pictures @ 131Z (1-4, Roll) Dump Truck		
	- Damp Truck		
KS			
REMARKS			
RE			
,			
			<u> </u>
		<u>.</u>	

Completed By:

Signature

<u>9/27/94</u> Date

FIELL PIT REMEDIATION/CLOSULE FORM

GENERAL	Meter: 73774 Location: Pan American Federal Gas Com # 1 Coordinates: Letter: O Section 31 Township: 30 Range: 11 Or Latitude Longitude Date Started: 5-13-94 Area: 02 Run: 41
FIELD OBSERVATIONS	Sample Number(s): VW68 Sample Depth: 10' Feet Final PID Reading 196 Yes No Groundwater Encountered (1) (2) Approximate Depth Feet
CLOSURE	Remediation Method: Excavation
REMARKS	Pit Closure Date: <u>5-13-94</u> Pit Closed By: <u>BET</u>

-2-



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID	_
SAMPLE NUMBER:	1 w 1,8	945159	
MTR CODE SITE NAME:	73774	N/B	
SAMPLE DATE TIME (Hrs):	5-13-94	1055	
SAMPLED BY:		P/A	
DATE OF TPH EXT. ANAL.:	5/17/94	5/17/94	
DATE OF BTEX EXT. ANAL.:	NIA	NIA	
TYPE DESCRIPTION:	NG	Trey course sand	

R	E۱	ſΑ	RK	S:

RESULTS

PARAMETER	RESULT	SULT UNITS QUA				IFIERS		
			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)	1930	MG/KG			1.97	28		
HEADSPACE PID	186	РРМ						
PERCENT SOLIDS	88.9	%		100				

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

The Surrogate Recovery was at	NIA	_% for this sample	All QA/QC was acceptable.	
Narrative:				

DF = Dilution Factor Used

Approved By: Started

Date: 4/15/94

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

Perkin-Elmer Model 1600 FT-IR Analysis Report

14/05/17 15:16

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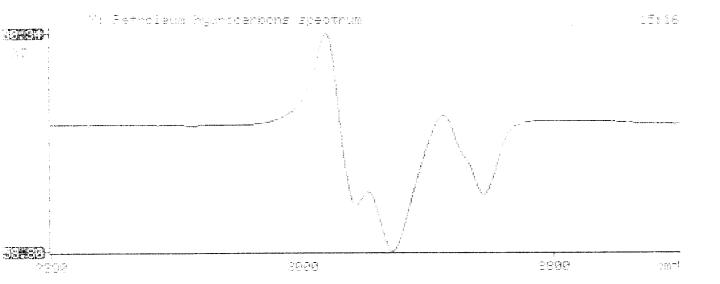
Sample identification 45159

Initial mass of sample, g

Volume of sample after extraction, ml 3.000

Fatroleum hydrocarbons, pom 930,247

Net absorbance of hydrodarbons (2970 cm-1) - 172



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