DEPUTY ON & GAS MEDICATION

DEC 29 1957

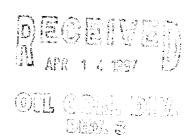
Meter Number:71617 ocation Name:Jicarilla C 34 #7

Leocation:TN-25 RG-05 SC-21 UL-P

6 - Jicarilla

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

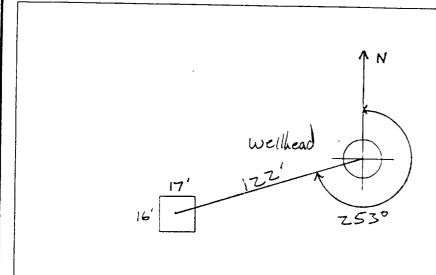
GENERAL	Meter: 7/6/7 Location: Ticarilla 234#7 Operator #: 0763 Operator Name: Texaco P/L District: Ojito Coordinates: Letter: P Section Z/ Township: ZSN Range: 560 Or Latitude Longitude						
GEN	Or Latitude Longitude						
	I Fit Type: Denydrator location Drip. \(\subseteq 1: \text{D} \)						
	Site Assessment Date: 7-18-94 Area: 06 Run: 63						
	NMOCD Zone: Land Type: BLM (1)						
	$\begin{array}{ccc} \text{State} & \square & (2) \\ \end{array}$						
	Fee (3)						
	Depth to Groundwater Depth to Groundwater						
	Less Than 50 Feet (20 points) (1)						
	50 Ft to 99 Ft (10 points) ☐ (2) Greater Than 100 Ft (0 points) ☑ (3)						
T	Wellhead Protection Area:						
MEN	Is it less than 1000 ft from wells springs as all						
ASSESSMENT	fresh water extraction?, or; Is it less than 200 ft from a private domestic water source? (1) YES (20 points) (2) NO (0 points)						
ASS	Horizontal Distance to Surface Water Bod-						
ITE	Less India 200 Ft (20 points) (1)						
SI	200 Ft to 1000 Ft (10 points)						
	Name of Surface Water Body						
	(Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)						
	Distance to Nearest Ephemeral Stream (1) < 100'(Navajo Pits Only)						
	\square (2) > 100 (Navajo Pits Uniy)						
	TOTAL HAZARD RANKING SCORE: POINTS						
REMARKS	Remarks: Redline V.Z inside Too 157 - attide						
3MA	pit is dry						
22							

REMARKS

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 253 Footage from Wellhead 172

b) Length: 17 Width: 16 Depth: 3



Remarks	:		
	Photos - 5-	8	
			
			

Completed By:

7-18-

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 7/6/7 Location: Sicarilla c 34 # 7 Coordinates: Letter: P Section 2/ Township: 25N Range: 5W Or Latitude Longitude Date Started: 8/28/95 Run: 06 63
FIELD OBSERVATIONS	Sample Number(s): $JK62$ Feet Sample Depth: $J2$ Feet Final PID Reading $J490$ PID Reading Depth $J2'$ Feet Yes No Groundwater Encountered \square Approximate Depth Feet
CLOSURE	Remediation Method: Excavation Onsite Bioremediation Backfill Pit Without Excavation Soil Disposition: Envirotech Other Facility Name: Pit Closure Date: 8-31-95 Pit Closed By: Philp
KEMAKKS	Remarks: Pt Pid Readings (N-25.1)(5-58.5) (£ 5.9) (W-0.8) Pit size 18 × 15 × 22 Fence Size: 23×23×3 No Fence More Than 100' From Ethemral strem
-	Signature of Specialist: J. K. Kriff



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	JK62	947354
MTR CODE SITE NAME:	71617	Jicarilla C 34 #7
SAMPLE DATE TIME (Hrs):	08-29-95	1306
PROJECT:	Jic Pits	
DATE OF TPH EXT. ANAL.:	タ/・1/95	
DATE OF BTEX EXT. ANAL.:	8/3c/95	9/3/95
TYPE DESCRIPTION:	V6	Bark brown Sand & Man,

Field Remarks: $(N-25.1)(5-58.5)(E-5.9)(\omega-0.8)$

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	2 5	MG/KG				
TOLUENE	4 5	MG/KG				
ETHYL BENZENE	4,5	MG/KG				
TOTAL XYLENES	< 15	MG/KG				
TOTAL BTEX	4 3	MG/KG				
TPH (418.1)	108	MG/KG			2.10	28
HEADSPACE PID	349.0	РРМ	·			
PERCENT SOLIDS	91,0	%	4 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	Ž.		

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

The Surrogate Recovery was at	90%	for this sample	All QA/QC was acceptable.
Narrative:			

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

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

95/08/30 13:31

Sample identification 47354

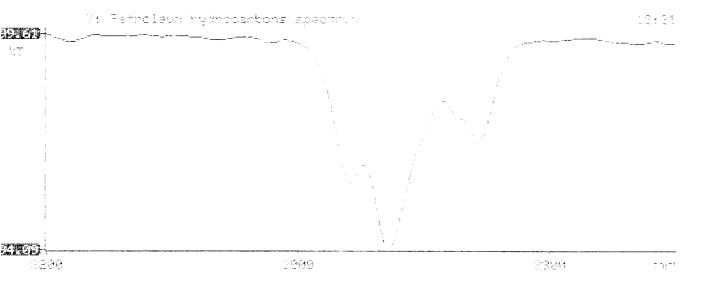
Initial mass of sample, g 1.100

Volume of sample after extraction, of 18.000

Petroleum hydrocarbons, pom 109,452

Net absorbance of hydrocarbons (2017 th-1)

0.024



ILLEGIBLE

BTEX SOIL SAMPLE WORKSHEET

File Soil Mass Extraction vol Shot Volume	s (g) . (mL)	:	947354 5.01 20 100	Date Printed: 9/6/95 Multiplier (L/g): 0.00100 DF (Analytical): 200 DF (Report): 0.19960
				Det. Limit
Benzene	(ug/L)	:	0.00	Benzene (mg/Kg): 0.000 0.499
Toluene	(ug/L)	:	0.96	Toluene (mg/Kg): 0.192 0.499
Ethylbenzene	(ug/L)	:	0.00	Ethylbenzene (mg/Kg): 0.000 0.499
p & m-xylene	(ug/L)	:	0.00	p & m-xylene (mg/Kg): 0.000 0.998
o-xylene	(ug/L)	:	0.44	o-xylene (mg/Kg): 0.088 0.499

Total xylenes (mg/Kg): 0.088

Total BTEX (mg/Kg): 0.279

1.497

EL PASO NATURAL GAS EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM001\090395-1.018 Method : C:\LABQUEST\METHODS\9001.MET

Sample ID : 947354,5.01G,100U Acquired : Sep 03, 1995 01:15:52 Printed : Sep 03, 1995 01:42:17

User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	3.390	0	0.0000
a,a,a TFT	4.987	2199640	92.4254
TOLUENE	6.810	400970	0.9645
ETHYLBENZENE	10.553	86961	-0.0250
M & P XYLENE	10.903	579440	-0.8720
O XYLENE	11.957	62357	0.4353
BFB	13.437	31486078	89.6408

C:\LABQUEST\CHROM001\090395-1.018 -- Channel A

