Denny S. Toust DEPUTY OIL & GAS INSPECTOR

DEC 22 1997

your

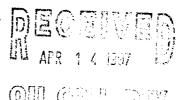
Meter Number:87098 Location Name: JICARILLA L #3 DK Location:TN-24 RG-05

SC-03 UL-E

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:

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

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: \$709\$ Location: Transla L#3 DK Operator #: 2999 Operator Name: Mecidian P/L District: Ojita Coordinates: Letter: E Section 3 Township: Z4NRange: 5W Or Latitude Longitude Pit Type: Dehydrator × Location Drip: Line Drip: Other: Site Assessment Date: 7-18-99 Area: 06 Run: 51						
SITE ASSESSMENT	NMOCD Zone: (From NMOCD Maps) Inside Outside Outside Depth to Groundwater Less Than 50 Feet (20 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? ☐ (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 Canals, Ditches, Lakes, Ponds) Distance to Nearest Ephemeral Stream ☐ (1) < 100'(Navajo Pits Only) ☐ (2) > 100' TOTAL HAZARD RANKING SCORE: POINTS						
S	Remarks: Redline V.Z outside Topo V.Z outside						
ARK							
REMARKS	one pot on location-oils Water in it - 100 gals Push in						

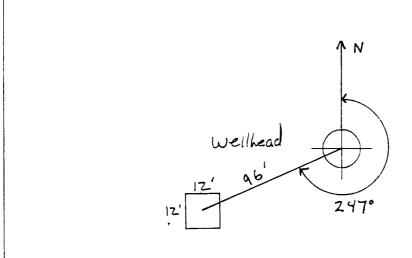
PIT LOCATION
ORIGINAL

REMARKS

ORIGINAL PIT LOCATION

Original Pit: a) Degrees from North <u>247</u> Footage from Wellhead <u>96</u>

b) Length: 12 Width: 17 Depth: 3



Remarks	: Photos -	Roll # 2	1 #5-8	-	<u></u>	

Completed By:

Signature

7-18-94

Date

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 82098 Location: JiCarilla L #3 DK Coordinates: Letter: E Section 3 Township:27以 Range: 5ひ Or Latitude Longitude Longitude Date Started: 9/2/95 Run: 06 3/
FIELD OBSERVATIONS	Sample Number(s): 5K76 Sample Depth: Feet Final PID Reading PID Reading Depth Feet Yes No Groundwater Encountered
CLOSURE	Remediation Method: Excavation Onsite Bioremediation Backfill Pit Without Excavation Soil Disposition: Envirotech Other Facility Name: Pit Closure Date: 9-18-95 Pit Closed By: Philip
REMARKS	Remarks: P.t. P. Reachings (1-94.0) (5-823) (F.5.6) (W-155.0) P.t. SIZO 23420 X6 SPRAYED PIT WITH SOIL ENHANCER 9-18-95 Fence Size 15 x 15 x 3 No Not Less than 100' From F. Phemrol Strem Signature of Specialist: Street
	(SP3191) 03/16/94



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	JK 76	947426
MTR CODE SITE NAME:	87098	Jicarilla L #3 DK
SAMPLE DATE TIME (Hrs):	09-07-5	1240
PROJECT:	TicPits	
DATE OF TPH EXT. ANAL.:	7-2-75	
DATE OF BTEX EXT. ANAL.:	9/8/95	9/12/95
TYPE DESCRIPTION:	YG	WEAT BOOMERSHOYTE

Field Remarks: $(N-94.0)(5-82.3)(E-5.6)(\omega-155.0)$

RESULTS

PARAMETER	RESULT	UNITS		QUALIFIERS			
			DF Q M(g			V(ml)	
BENZENE	17.8	MG/KG	16				
TOLUENE	259	MG/KG	10	0			
ETHYL BENZENE	24.6	MG/KG	10	<u> </u>			
TOTAL XYLENES	276	MG/KG	<u>'0</u>	0			
TOTAL BTEX	577	MG/KG		D			
TPH (418.1)	4000 PLB	95 MG/KG			20%	28	
HEADSPACE PID	522	PPM					
PERCENT SOLIDS	91.3	%					

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

The Surrogate Recovery was at

for this sample All QA/QC was acceptable.

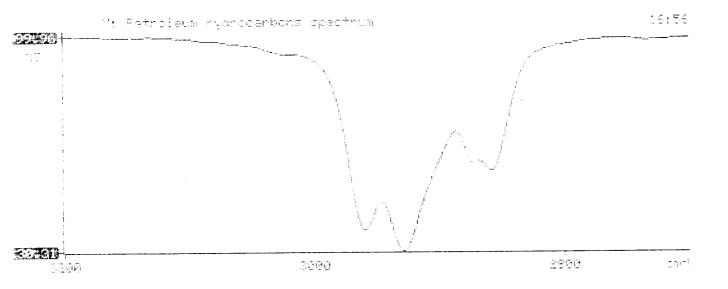
Narrative:

DF = Dilution Factor Used A ---- Bur

9-13-9-

18.000 Petroleum hydrocarbons, ppm

Factoleum hydrocarbons, ppm 1004,974 Met absorbance of hydrocarbons (2930 cm-1) 517



BTEX SOIL SAMPLE WORKSHEET

File	:	947426	Date Printed	:	9/13/95
Soil Mass (g) :	5.01	Multiplier (L/g)	:	0.00100
Extraction vol. (m	L) :	20	DF (Analytical)	:	2000
Shot Volume (u	L) :	10	DF (Report)	:	1.99601

							Det. Limit
Benzene	(ug/L)	:	8.92	Benzene	(mg/Kg):	17.804	4.990
Toluene	(ug/L)	:	130.00	Toluene	(mg/Kg):	259.481	4.990
Ethylbenzene	(ug/L)	:	12.30	Ethylbenzene	(mg/Kg):	24.551	4.990
p & m-xylene	(ug/L)	:	113.00	p & m-xylene	(mg/Kg):	225.549	9.980
o-xylene	(ug/L)	:	25.40	o-xylene	(mg/Kg):	50.699	4.990
				Total vylenes	(ma/Ka)	276 248	14 970

Total xylenes (mg/Kg): 276.248 14.970 Total BTEX (mg/Kg): 578.084

EL PASO NATURAL GAS

EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM001\091295-1.005 Method : C:\LABQUEST\METHODS\9001.MET

Sample ID : 947418,5.04G,100U mh Acquired : Sep 12, 1995 19:28:31 Printed : Sep 12, 1995 19:54:58

User : MARLON

947426 10-16 5.019

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	3.463	899701	8.9233
a,a,a TFT	4.980	5282325	152.9650
TOLUENE	6.820	31200866	130.3436
ETHYLBENZENE	10.580	2726869	12.3299
M & P XYLENE	10.940	28939640	112.6361
O XYLENE	11.993	5401473	25.4114
BFB	13.483	52767708	88.0560

C:\LABQUEST\CHROM001\091295-1.005 -- Channel A

