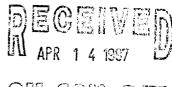
Denny S. Fout DEPUTY OIL & GAS INSPECTOR

DEC 22 1997

Meter Number: 94529
Location Name: M & M #1
Location: TN-23 RG-04
SC-15 UL-I
6 - Jicarilla

NMOCD Zone: OUTSIDE Hazard Ranking Score: 00



OIL CON. DIV.

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

Meter: 94529 Location: M&M Operator #: 5728 Operator Nar	# LD0WKK	
Operator #: 5/28 Uperator Nar	ne: JAMES L	P/L District: OSITO
Coordinates: Letter: <u>I</u> Section <u>15</u> Or Latitude Lone Pit Type: Denydrator Location Site Assessment Date: <u>7-27-9s</u>	_Township: <i>23</i> gitude Drip: X Line	Range: <u>4</u>
NMOCD Zone:	Land Type	: 3LM _ (1)
(From NMOCD		State \equiv (2)
Maps) nside Outside	☐ (1) ☐ (2)	Fee (3)
Depth to Groundwater Less Than 50 Feet (20 points) 50 Ft to 99 Ft (10 points) Greater Than 100 Ft (0 points)		
Wellhead Protection Area: it less than 1000 ft from wells, resn water extraction?, or it is it comestic water source? (1) YE	less than 20	O # from a private
Horizontal Distance to Surface Less Than 200 Ft (20 points) 200 Ft to 1000 Ft (10 points) 300 Ft to 1000 Ft (0 points)	Water Body (1) (2)	
ame of Surface Water Boay		
Surface Water Body : Perennia: Riv rrigation Canais,Ditanes,Lakes,Pond:	s)	
istance to Nearest Ephemeral Stre	am \subseteq (1) < \subseteq (2) >	- •
OTAL HAZARD RANKING SCORE: _	0	POINTS
Pemarks :		

Original Pit: a) Degrees from North 100° Footage from Wellhead 32′ b) Length://_ Width://_ Depth:
WELL POO HEAD 32' 16'
Remarks:
Completed Ey:

Date

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 94529 Location: $M \not\in M \not= 1$ Coordinates: Letter: I Section 25 Township: 23 Range: I Or Latitude Longitude Date Started: $I0/I2/95$ Run: OS $C3$
FIELD OBSERVATIONS	Sample Number(s): JK/OY Sample Depth: $9'$ Feet Final PID Reading 1.7 PID Reading Depth $9'$ Feet Yes No Groundwater Encountered \square Approximate Depth \square Feet
CLOSURE	Remediation Method: Excavation
REMARKS	Remarks: Did Not Excavat Fence Size 19x19x3 No Net More than 100' From Fthemral strem Signature of Specialist:



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

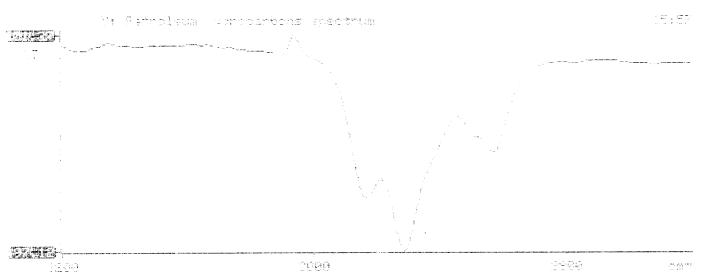
	Field	ID		Lab ID		
SAMPLE NUMBER:	JK104		947636			
MTR CODE SITE NAME:	94529		MiM	#		
SAMPLE DATE TIME (Hrs):	10-12-	-95	1530			
PROJECT:	JicPits					
DATE OF TPH EXT. ANAL.:	10-16-95	•				
DATE OF BTEX EXT. ANAL.:	10/16/95		10/17	10/17/95		
TYPE DESCRIPTION:	V6		DARK B	RN SANI	OYCLAY	
Field Remarks:	(No wall					
		RESULTS				
PARAMETER	RESULT UNITS QUALIFIERS DF Q M(g)			V(ml)		
BENZENE	4 0.5	MG/KG				
TOLUENE	人 0.5	MG/KG				_
ETHYL BENZENE	< 6.5	MG/KG				
TOTAL XYLENES	< 1.5	MG/KG				
TOTAL BTEX	4.3	MG/KG				
TPH (418.1)	54.0	MG/KG			200	ZP
HEADSPACE PID	1.7	PPM				
PERCENT SOLIDS	87.8	%				
The Surrogate Recovery was at Narrative:	- TPH is by EPA Method	418.1 and BTEX is by E for this sampl			table.	

DF = Dilution Factor Used

Approved By: _

************************************ Test Method for Oil and Grease and Petroleum Hydrocarbons in Water and Soil Perkin-Elmer Model 1600 FT-IR Analysis Report ******************* 95/10/16 15:57 Sample identification 947636 initial mass of sample, g 21000 Volume of sample after extraction, ml 22.000 Petroleum hydrocarcons. pom 34.037 Net absorbance of hydrocarbons (1930 cm-1)

e. ilv



BTEX SOIL SAMPLE WORKSHEET

File	e :	947636	Date Printed :	10/18/95
Soil Mas	s (g):	5.13	Multiplier (L/g) :	0.00097
Extraction vo	l. (mL) :	10	CAL FACTOR (Analytical):	200
Shot Volum	e (uL) :	50	CAL FACTOR (Report):	0.19493
			DILUTION FACTOR:	1 Det. Limit
Benzene	(ug/L) :	0.00	Benzene (mg/Kg):	0.000 0.487
Toluene	(ug/L) :	0.21	Toluene (mg/Kg):	0.041 0.487
Ethylbenzene	(ug/L) :	0.00	Ethylbenzene (mg/Kg):	0.000 0.487
p & m-xylene	(ug/L) :	0.35	p & m-xylene (mg/Kg):	0.068 0.975
o-xylene	(ug/L) :	0.00	o-xylene (mg/Kg):	0.000 0.487
			Total xylenes (mg/Kg):	0.068 1.462
			Total BTFY (mg/Kg):	0 109

EL PASO NATURAL GAS EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM001\101795-2.014 Method : C:\LABQUEST\METHODS\1-101395.MET

Sample ID : 947636,5.13G,50U Acquired : Oct 16, 1995 01:44:08 Printed : Oct 16, 1995 02:10:30

User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	4.873	0	0.0000
a,a,a TFT	6.653	4239692	94.6493
TOLUENE	8.710	75933	0.2111
ETHYLBENZENE	12.740	0	0.0000
M & P XYLENE	13.093	142686	0.3524
O XYLENE	14.223	0	0.0000
BFB	15.773	63881720	92.6874

C:\LABQUEST\CHROM001\101795-2.014 -- Channel A

