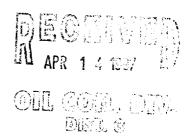
Denne & Fount
DEPUTY OIL & SE MSPECTOR

DEC & SHIP

Meter Number: 74884
Location Name: Jicarilla Contract #10
Location: TN-25 RG-05
SC-33 UL-M
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

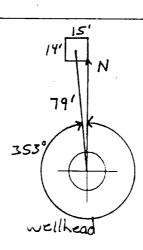
1					
GENERAL	Meter: 74884 Location: \(\subsection \) Location: \(\subsection \) Contract \(\pm\) P/L District: \(\D\) Operator Name: \(\Bar{BWP} \) Fill P/L District: \(\D\) Section 33 Township: \(\bar{25N}\) Range: \(\subseteq \D\) Or \(\Lambda\) Latitude \(\begin{array}{c} \Location \) Drip: \(\Delta\) Line Drip: \(\begin{array}{c} \D\) Other: \(\D\) Site Assessment Date: \(\begin{array}{c} 7-1S-94 \\ \Delta\) Area: \(\D\) Run: \(\subseteq \D\)				
	NMOCD Zone: Land Type: 5114 (1)				
	(From NMOCD				
	$Mans$) I_{a}				
	Fee (3)				
:	Outside (2) Indian Jicarila				
	Depth to Groundwater A packe				
	Less Than 50 Feet (20 points) (1)				
	50 Ft to 99 Ft (10 points) \square (2) Greater Than 100 Ft (0 points) \square (7)				
	Greater Than 100 Ft (0 points) 🛛 (3)				
F	Wellhead Protection Area:				
LE L	Is it less than 1000 ft from wells, springs, or other sources of				
SSI	resh water extraction? . or : Is it less than 200 ft from a:				
ASSESSMENT	admestic water source? L (1) YES (20 points) (2) NO (0 points)				
AS	Horizontal Distance to Surface Water Body				
TE	Less Than 200 Ft (20 points) . (1)				
SII	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 Negrest Ephemeral Street (1) 1 1001(1)				
	Distance to Nearest Ephemeral Stream (1) < 100'(Navajo Pits Only)				
-70	TOTAL HAZARD RANKING SCORE: POINTS				
REMARKS	Remarks: Redline Book-Outside, Vulnerable Zone Topo-Outside				
MA	one pit on location. <30 gals. oil in it				
RE	- SU GAIS, DOLIN IT				

REMARKS

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 353 Footage from Wellhead 79

b) Length: 15 Width: 14 Depth: 2



Remarks :	Roll#1 photo 1-4	
	oil in pit 230 gals	

Completed By:

Signature

7-15-94

Date

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 74884 Location: Sicarilla contract #10 Coordinates: Letter: M. Section 33 Township: 250 Range: 56 Or Latitude Longitude Longitude Date Started: 3/11/95 Run: 06
FIELD OBSERVATIONS	Sample Number(s): JK 26 Sample Depth: 9' Feet Final PID Reading 3090 PID Reading Depth 9 Feet Yes No Groundwater Encountered
CLOSURE	Remediation Method: Excavation Onsite Bioremediation Backfill Pit Without Excavation Soil Disposition: Envirotech Other Facility Name: Pit Closed By:
REMARKS	Remarks: P. P. Reactings (2-270)/8-722/E-93/W-63.0, Fit size 2-13519 Hit Ruck at 9' Funce size 81/713 Lo Het More than 100' From Ethemral Strem SPRAYED PIT WITH SOIL ENHAncer 9-18-95 Signature of Specialist: Jam L. Kuly (SP3191) 03/16/94



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field I	D		Lab ID		
SAMPLE NUMBER:	JK 76	947	436			
MTR CODE SITE NAME:	74884	dicContract 148 #10				
SAMPLE DATE TIME (Hrs):	09-11-95		1625			
PROJECT:	Jic Pits					
TE OF TPH EXT. ANAL.:	9-12-25					
TE OF BTEX EXT. ANAL.:	9/12/95		9/14/95			
TYPE DESCRIPTION:	V6	<u> </u>	Labet 30	in their	and deap	
Field Remarks:	(N-27.0)(F	RESULTS	7.31.00 %			
PARAMETER	RESULT	UNITS	DF	QUALIF	IERS M(g)	V(ml)
BENZENE	7.2	MG/KG	14	D		
TOLUENE	2.6.10	MG/KG	1	Ď		
ETHYL BENZENE	4.7	MG/KG	11	Q		
TOTAL XYLENES	30.6	MG/KG	11	Ď	_	
TOTAL BTEX	109.1	MG/KG	1.1	D		
TPH (418.1)	37/0	MG/KG			227	22
HEADSPACE PID	309	PPM				
PERCENT SOLIDS	92.9	%				
	TPH is by EPA Method			 C was acce	ntable.	

********************** Test Method for Oil and Grease and Petroleum Hydrocarbons in Water and Soil

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

95/09/12 11:57

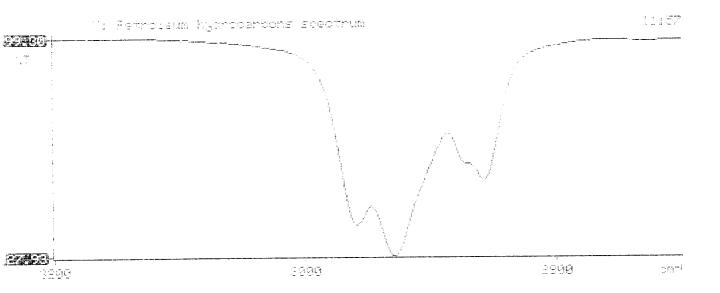
Sample identification 747436

Initial mass of sample, g 2.280

Volume of sample after extraction, ml T9.000

Petroleum hydrocarbons, ppm 1907.179 Net absorbance of hydrocarbons (2930 cm-1)

-, 144



BTEX SOIL SAMPLE WORKSHEET

File Soil Mass Extraction vol Shot Volume	s (g) : . (mL) :	947436 4.95 20 25	Date Printed: 9/15/95 Multiplier (L/g): 0.00101 DF (Analytical): 800 DF (Report): 0.80808
			Det. Limit
Benzene	(ug/L) :	8.89	Benzene (mg/Kg): 7.184 2.020
Toluene	(ug/L) :	32.90	Toluene (mg/Kg): 26.586 2.020
Ethylbenzene	(ug/L) :	5.81	Ethylbenzene (mg/Kg): 4.695 2.020
p & m-xylene	(ug/L) :	34.90	p & m-xylene (mg/Kg): 28.202 4.040
o-xylene	(ug/L) :	3.01	o-xylene (mg/Kg): 2.432 2.020 Total xylenes (mg/Kg): 30.634 6.061 Total BTEX (mg/Kg): 69.099

EL PASO NATURAL GAS EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM000\091495-0.010 Method : C:\LABQUEST\METHODS\9000.MET

Sample ID : 947436,4.95G,25U Acquired : Sep 14, 1995 17:35:12 Printed : Sep 15, 1995 07:48:30

User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
			- (dg/H/
BENZENE	7.957	5524187	8.8879
a,a,a-TFT	11.357	18360362	142.2578
TOLUENE	14.387	17725268	32.8977
ETHYLBENZENE	19.403	3273963	5.8109
M, P-XYLENES	19.830	19414496	34.9029
O-XYLENE	20.870	1878566	3.0088
BFB	22.840	111343608	97.6801

