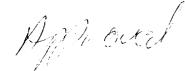
DEC 2 9 1997

Meter Number:95936
Location Name:Jic Contract 148 #38
Location:TN-25 RG-05
SC-13 UL-N
6 - Jicarilla
NMOCD Zone:OUTSIDE

000 1100 1210



RATIONALE FOR RISK-BASED CLOSURE OF PRODUCTION PITS LOCATED OUTSIDE OF THE VULNERABLE ZONE IN THE SAN JUAN BASIN

Hazard Ranking Score:00

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: 95936 Location: <u>Jic es</u>					
Operator #: <u>0203</u> Operator Name: <u>AmocD</u> P/L District: <u>05170</u> Coordinates: Letter: N Section Name: AmocD P/L District: <u>05170</u>					
Or Latitude Lon	gitude				
Pit Type: Dehydrator Location Site Assessment Date: <u>&-17-95</u>	Area: <u>Dle</u> Run: <u></u> Other:				
NMOCD Zone:	Land Type: BLM [] (1)				
(From NMOCD	Land Type: BLM ☐ (1) State ☐ (2)				
Maps) inside	\Box (1) Fee \Box (3)				
Cutside	(2) Indian JEARILLA				
Depth to Groundwater					
Less Than 50 Feet (20 points)					
50 Ft to 99 Ft (10 points) Greater Than 100 Ft (0 points)	\subseteq (2) \subseteq (3)				
Wellhead Protection Area : Is it less than 1000 ft from wells, springs, or other sources of					
fresh water extraction? , or ; is it	t 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,					
rrigation Canais,Ditches,Lakes,Ponas)					
Distance to Nearest Ephemeral Stre	eam [(1) < 100'(Navajo Pits Only)				
	(2) > 100'				
TOTAL HAZARD RANKING SCORE: _	O POINTS				
Remarks: 3 PITS + TANK AREA ON LOCATION, PIT CONTAINS OIL					

ORIGINAL PIT LOCATION					
Original Pit : a) Degrees b) Length	from North 325° Footage from Wellhead 115' : 18' Width : 17' Depth : 28'				
	17/13 WEURENO 3250				
Remarks :					
Completed By:					
Luly Coly	8-17-95				
Signature	Date				

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 95934 Location: TIC CONTRACT 148 #38 Coordinates: Letter: D Section 13 Township: 25 Range: 5 Or Latitude Longitude Longitude Date Started: 8-25-55 Run: 04 163
FIELD OBSERVATIONS	Sample Number(s):
CLOSURE	Remediation Method: Excavation Onsite Bioremediation Backfill Pit Without Excavation Soil Disposition: Envirotech Other Facility Pit Closure Date: 9-5-95 Pit Closed By: Philip
REMARKS	Remarks: PID WALL (N-9.8)(S-1.0)(E-3.0)(W-1.0) PH SIZE 19XISX14 LESS Than 100' FROM Ephemorol STREAM PH OWSIZE W. V. ZONE LEPNG NORMAN ONSWE) FENCE SIZE 28X28X3 NO NET Signature of Specialist: Walks home



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	NS 70	947351
MTR CODE SITE NAME:	95936	Jic. Contract 148#38
SAMPLE DATE TIME (Hrs):	08-29-95	1400
PROJECT:	Jic Pits	
DATE OF TPH EXT. ANAL.:	8130195	
DATE OF BTEX EXT. ANAL.:	E/3c/95	9/3/95
TYPE DESCRIPTION:	V6	Mark from sand of clay

Field Remarks: $(N-9.8)(5-1.0)(E-3.0)(\omega-1.0)$

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
LVIMILIE			DF	Q	M(g)	V(ml)
BENZENE	Z .5	MG/KG				
TOLUENE	4.5	MG/KG				
ETHYL BENZENE	4.5	MG/KG				
TOTAL XYLENES	415	MG/KG				
TOTAL BTEX	43	MG/KG			_	
TPH (418.1)	689	MG/KG			7,23	28
HEADSPACE PID	1.4	PPM				
PERCENT SOLIDS	91.2	%		,	1 2 E .	

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

The Surrogate Recovery was at	92%	for this sample	All QA/QC was acceptable
Narrative:			

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

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

95/08/30 14:29

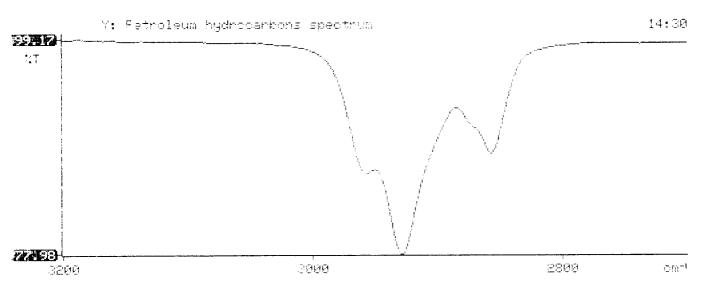
Sample identification P47351

Initial mass of sample, g

Volume of sample after extraction, ml 28.000

Petroleum hydrocarbons, ppm 588.548

Net absorbance of hydrocarbons (2930 cm-1) 0.103



*

BTEX SOIL SAMPLE WORKSHEET

File	:	947351	Date Printed : 9/6/95
Soil Mass	(g):	5.06	Multiplier (L/g) : 0.00099
Extraction vol.	(mL):	20	DF (Analytical) : 200
Shot Volume	(uL) :	100	DF (Report) : 0.19763
			Det. Limit
Benzene (ug/L) :	0.00	Benzene (mg/Kg): 0.000 0.494

0.494 0.00 Toluene (mg/Kg): 0.000 Toluene (ug/L) : 0.494 Ethylbenzene (mg/Kg): 0.000 Ethylbenzene 0.00 (ug/L): p & m-xylene 0.00 p & m-xylene (mg/Kg): 0.000 0.988 (ug/L) : o-xylene (mg/Kg): 0.494 o-xylene (ug/L): 0.000 0.00

Total xylenes (mg/Kg): 0.000 1.482

Total BTEX (mg/Kg): 0.000

EL PASO NATURAL GAS

EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM001\090395-1.015 Method : C:\LABQUEST\METHODS\9001.MET

Sample ID : 947351,5.06G,100U Acquired : Sep 02, 1995 23:28:05 Printed : Sep 04, 1995 11:12:44

User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	3.390	0	0.0000
a,a,a TFT	4.967	1998780	83.9855
TOLUENE	6.800	219031	-0.1491
ETHYLBENZENE	10.540	0	0.0000
M & P XYLENE	10.923	412650	-1.8982
O XYLENE	11.877	0	0.0000
BFB	13.473	32288940	91.9266

C:\LABQUEST\CHROM001\090395-1.015 -- Channel A

