DEPUTY OH & GAS INSPECTOR

DEC 2 2 1997

Meter Number:74302 Location Name:Jicarilla Apache #6 PC Location:TN-24 RG-05 SC-11 UL-A

> 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:

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: 74302 Location: JICAR Operator #: 5744 Operator Nai Coordinates: Letter: A Section II Or Latitude	Township: <u>24)</u> Range: <u>5</u> ngituae Drip: X Line Drip: Other:
NMOCD Zone:	Land Type: SLM (1)
(From NMOCD nside Outside	State (2) (1) Fee (3) (2) naian <u>JICARILLA</u>
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: Is it less than 1000 ft from wells fresh water extraction? Ler; s domestic water source? (1) Y	- I
Horizontal Distance to Surface Less Than 200 Ft (20 points) 200 Ft to 1000 Ft (10 points) Greater Than 1000 Ft (0 points) Name of Surface Water Body	☐ (1) ☐ (2) ☑ (3)
(Surface Water Body : Perennia: B	Rivers,Major Wasn,Streams,Creeks.
rrigation Canais, Ditanes, Lakes, Pon Distance to Nearest Ephemeral Str	ream (1) < 100'(Navajo Pits Only) (2) > 100'
TOTAL HAZARD RANKING SCORE:	O POINTS
Remarks: PA	

ORIGINAL PIT LOCATION Original Pit: a) Degrees from North Footage from Wellhead 92

b) Length: 15 Width: 12 Depth: 24" WELL HAT D Remarks: Completed Ev:

Date

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 24302 Location: Sicarilla APache. #6 PC Coordinates: Letter: # Section // Township: 24 Range: 5 Or Latitude Longitude Date Started: 8/31/95 Run: 06 51
FIELD OBSERVATIONS	Sample Number(s): 5K68 Sample Depth: 8' Feet Final PID Reading 7.2 PID Reading Depth Feet Yes No Groundwater Encountered
CLOSURE	Remediation Method: Excavation Onsite Bioremediation Backfill Pit Without Excavation Soil Disposition: Envirotech Other Facility Pit Closure Date: 9-7-95 Pit Closed By: Philip
KEMAKKS	Remarks: Did Not Execut More Than 100' From Ephemral strem EPNG on Site Fence Size, 21×18×3 Signature of Specialist: for X Lib



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Outside the GWV Zone

SAMPLE IDENTIFICATION

SAMPLE NUMBER:	Field ID	Lab ID R69/1/9.5
MTR CODE SITE NAME:	7/1202	9473765
SAMPLE DATE TIME (Hrs):	08-31-95	d'c. Apache#6 PC
PROJECT: DATE OF TPH EXT. ANAL.	Aichits	7730
DATE OF DEED	9-5-95	
TYPE DESCRIPTION:	1/1/95 V6	9/5/95
-		DARK BROWN SHOWY STAN

REMARKS: no well reading

RESULTS

PARAMETER	RESULT	UNITS		QUAL			
BENZENE	< 5		DF	<u> a</u>	M(g)	V(ml)	ATI Result
TOLUENE	1	MG/KG			-		40.025
ETHYL BENZENE	< 5	MG/KG					<0.025
TOTAL XYLENES	< 1.5	MG/KG MG/KG	-				40.025
TOTAL BTEX	43	MC/VO					40.025
TPH (418.1) <10	3 90 00	95 MG/KG			202		20.10
HEADSPACE PID	7.2	PPM			2.05	28	hot run
PERCENT SOLIDS	95.3	%					Surrogate % // 7 Dilution Factor

The Surrogate	Recovery	W/2c	
Narrative:		***	at

TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020 --S4% for this samp All QA/QC was acceptable.

ATI Results attached

DF = Dilution Factor Used

Approved By: _____

****************** Test Hethod for Dil and Grease arm Petroleum Hydrocarbons in Water and Soil

95/09/05 11:59

Sample identification 947375

Initial mass of sample, g 2.050

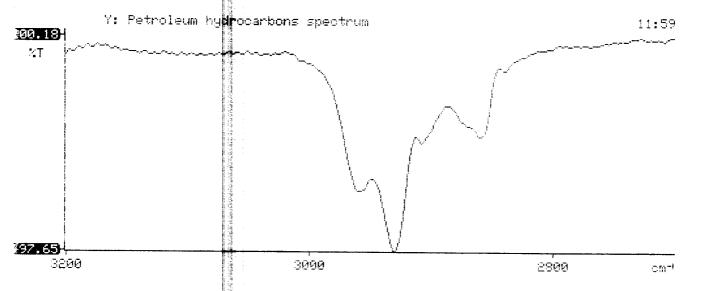
Volume of sample after extraction, ml 28.000

Petroleum hydrocarbdis, ppm

2.897

Net absorbance of hydrocarbons (2930 cm-1)

0.011



BTEX SOIL SAMPLE WORKSHEET

Fil	е	:	947375	Date Printed : 9/6/95
Soil Mas	s (g)	:	5.11	Multiplier (L/g) : 0.00098
Extraction vo	I. (mL)	:	20	DF (Analytical) : 200
Shot Volum	e (uL)	:	100	DF (Report) : 0.19569
				Det. Limit
Benzene	(ug/L)	:	0.00	Benzene (mg/Kg): 0.000 0.489
Toluene	(ug/L)	:	0.00	Toluene (mg/Kg): 0.000 0.489
Ethylbenzene	(ug/L)	:	0.00	Ethylbenzene (mg/Kg): 0.000 0.489
p & m-xylene	(ug/L)	:	0.00	p & m-xylene (mg/Kg): 0.000 0.978
o-xylene	(ug/L)	:	0.00	o-xylene (mg/Kg): 0.000 0.489
				Total xylenes (mg/Kg): 0.000 1.468
				Total BTEX (mg/Kg): 0.000

EL PASO NATURAL GAS

EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM001\090595-1.024 Method : C:\LABQUEST\METHODS\9001.MET

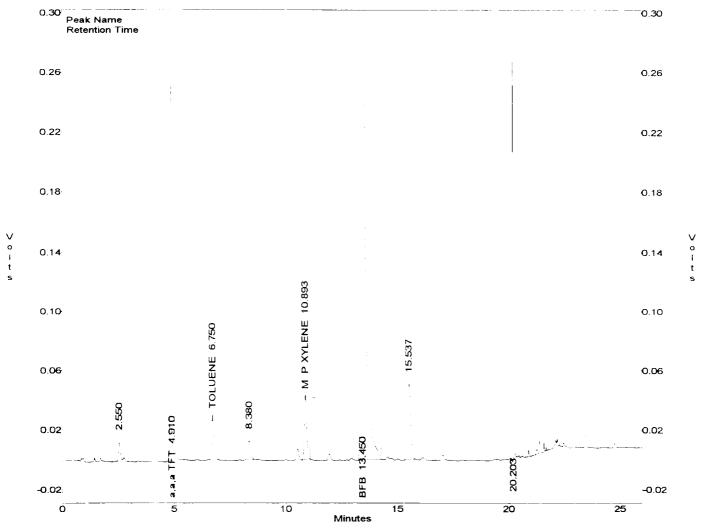
Sample ID : 947375,5.11G,100U Acquired : Sep 05, 1995 01:11:00 Printed : Sep 05, 1995 01:37:18

User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L:
BENZENE	3.390	0	0.0000
a,a,a TFT	4.910	1805531	75.8655
TOLUENE	6.750	193342	-0.3063
ETHYLBENZENE	10.540	0	0.0000
M & P XYLENE	10.893	301576	-2.5816
O XYLENE	11.877	0	0.0000
BFB	13.450	29607542	84.2927

C:\LABQUEST\CHROM001\090595-1.024 -- Channel A





GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)

CLIENT

: EL PASO NATURAL GAS CO. ATI I.D.: 509320

PROJECT #

: 24324

PROJECT NAME : PIT CLOSURE/JIC PITS

SAMPLE ID. # CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01 94 7 375	NON-AQ	08/31/95	09/08/95	09/12/95	1
PARAMETER		UNITS	01		
BENZENE		MG/KG	<0.025		
TOLUENE		MG/KG	<0.025		
ETHYLBENZENE		MG/KG	<0.025		
TOTAL XYLENES		MG/KG	<0.025		

SURROGATE:

BROMOFLUOROBENZENE (%)

117



ATI I.D. 509320

September 12, 1995

El Paso Natural Gas Co. P.O. Box 4990 Farmington, NM 87499

Project Name/Number: PIT CLOSURE/JIC PITS 24324

Attention: John Lambdin

On 09/07/95, Analytical Technologies, Inc., (ADHS License No. AZ0015), received a request to analyze non-aqueous sample(s). The sample(s) were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

If you have any questions or comments, please do not hesitate to contact us at (505) 344-3777.

Kimberly D. McNeill Project Manager

MR:jt

Enclosure

H. Mitchell Rubenstein, Ph.D.

Laboratory Manager