DEPUTY ON A GAS WAS TO AT

DEC 22 1337

Meter Number:93113

Location Name: JICARILLA GAS COM 35C #1E

Location:TN-24 RG-05 SC-02 UL-J

6 - Jicarilla

NMOCD Zone:OUTSIDE

Hazard Ranking Score:00

Hywerd



## 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



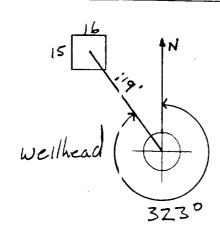
Meter: 93113 Location: Jicavilla Gas Com 35C #1E Operator #: 0203 Operator Name: AMOLO P/L District: OJITO Coordinates: Letter: I Section 2 Township: 24N Range: 5W Latitude \_\_\_\_\_ Longitude \_\_\_\_\_ Or Pit Type: Dehydrator 🔟 Location Drip: \_\_\_\_ Line Drip: \_\_\_\_ Other: \_\_\_\_ Site Assessment Date: 7-14-94 Area: 06 Run: 51 NMOCD Zone: Land Type: (1)BLM (From NMOCD (2)State Maps) Inside Fee (3) $\square$  (2) Outside Indian Jizacilla Depth to Groundwater Less Than 50 Feet (20 points) 一 (2) 50 Ft to 99 Ft (10 points) Greater Than 100 Ft (0 points)  $\times$  (3) Wellhead Protection Area: ASSESSMENT 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?  $\square$  (1) YES (20 points)  $\boxtimes$  (2) NO (0 points) Horizontal Distance to Surface Water Body Less Than 200 Ft (20 points) 200 Ft to 1000 Ft (10 points)  $\bigsqcup$  (2) Greater Than 1000 Ft (0 points)  $\boxtimes$  (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  $\square$  (1) < 100'(Navajo Pits Only) X (2) > 100' TOTAL HAZARD RANKING SCORE: \_\_\_\_ POINTS Remarks: Relline Book- outside, Vulnerable Zone Topo - Outside REMARKS Dely pot has water toil in it

REMARKS

## ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 323 Footage from Wellhead 119

b) Length : 16 Width : 15 Depth : 3



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Pictures @ Roll#2 plato 18

Large volume of water & oil in pit

Completed By: 1

Signature

7-14-94

Date

## FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 93/13 Location: Sicarilla Gas com 350 # 1E  Coordinates: Letter: Section & Township: 2411 Range: 5111  Or Latitude Longitude Longitude Run: G6 51
FIELD OBSERVATIONS	Sample Number(s): 5/3/ 5/22 5/23  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  Pit Closure Date: 9-12-95  Phase II Surver Pit Closed By: Phase II Surver Pit Closed By:
REMARKS	Remarks: fit fick Reachings (N-11.8)(5.480) (E-1480) (W-48-1)  Fit Size 30x34x19 SPRAYED PIT with Soil Enhancer 9-6-95  Fence Size 19 x 18 x 3 No. Not  More Than 100 From Etherascal Strem
	Signature of Specialist: James K. Kul) (SP3191) 03/16/94



# FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

## SAMPLE IDENTIFICATION

SAMPLE NUMBER: JK71 947401

MTR CODE | SITE NAME: 93113 Jeanella Castom 35C #JE

SAMPLE DATE | TIME (Hrs): 09-05-95 1328

PROJECT: Jic Pits

DATE OF TPH EXT. | ANAL.: 9-6-95 9-6-95

TYPE | DESCRIPTION: VG 4547 570000 56004 56004

Field Remarks: (N-11.8)(5-48.0)(E-148.0)(w-48.2)

#### **RESULTS**

PARAMETER	RESULT	UNITS	QUALIFIERS			
PARAMETER	112021		DF	Q	M(g)	V(mi)
BENZENE	45	MG/KG	16	0		
TOLUENE	11.0	MG/KG	10	D		
ETHYL BENZENE	< 5	MG/KG	10.	0		
TOTAL XYLENES	67.8	MG/KG	10	D		
TOTAL BTEX	78.8	MG/KG	iC	D		
TPH (418.1)	12500	MG/KG			.T.P	28
HEADSPACE PID	300	PPM				
PERCENT SOLIDS	91.2	%				

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

The Surrogate Recovery was at

96%

for this sample All QA/QC was acceptable.

Narrative:

DF = Dilution Factor Used

Date: 9-13-95

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Test Method for Oil and Grease and Fetroleum Hydrocarbons in Water and Soil Perkin-Elmer Model 1600 FT-IR

Analysis Report \*

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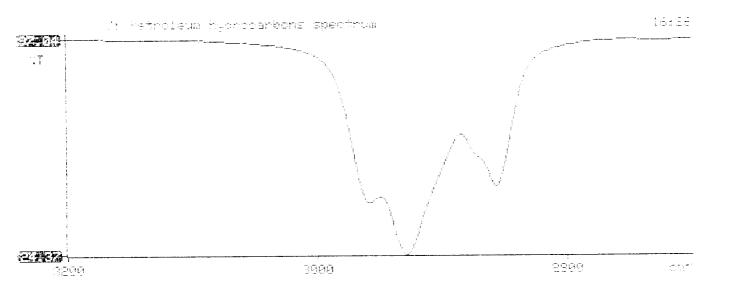
Sample identification -47401

Initial mass of sample, g -.780

Volume of sample after extraction, al 18,000

Petroleum hydrocarbons, ppm .1479.0a2

Net absorbance of hydrocarbons (2930 cm-1) . 399



## BTEX SOIL SAMPLE WORKSHEET

File	:	947401	Date Printed : 9/12/95
Soil Mass	(a) :	5.06	Multiplier (L/g) : 0.00099
Extraction vol.		20	DF (Analytical) : 2000
Shot Volume		10	DF (Report) : 1.97628
			Det. Limit

					Ct. Lillin
Benzene	(ug/L) :	0.00	Benzene (mg/Kg):	0.000	4.941
Toluene	(ug/L) :	5.58	Toluene (mg/Kg):	11.028	4.941
Ethylbenzene	(ug/L) :	1.67	Ethylbenzene (mg/Kg):	3.300	4.941
p & m-xylene	(ug/L) :	24.80	p & m-xylene (mg/Kg):	49.012	9.881
o-xylene	(ug/L) :	9.52	o-xylene (mg/Kg):	18.814	4.941
0-xylene	(ug/L) .	2.0-	Total xylenes (mg/Kg):	67.826	14.822
				00 454	

Total BTEX (mg/Kg): 82.154

### EL PASO NATURAL GAS EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM001\947401 Method : C:\LABQUEST\METHODS\9001.MET

Sample ID : 947401,5.06G,10U Acquired : Sep 11, 1995 15:12:31 Printed : Sep 11, 1995 15:39:10

User : MARLON

#### Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	3.410	0	0.0000
a,a,a TFT	4.973	4085617	118.3109
TOLUENE	6.793	1538902	5.5753
ETHYLBENZENE	10.537	301151	1.5684
M & P XYLENE	10.903	7235737	24.8455
O XYLENE	11.950	1892660	9.5205
BFB	13.437	57803512	96.4594

#### C:\LABQUEST\CHROM001\947401 -- Channel A

