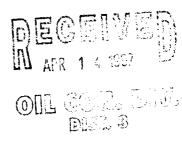
DEG 2 2 1397

Meter Number: 74799
Location Name: Stromberg #2
Location: TN-23 RG-03
SC-29 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:

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: 74799 Location: STROMBERG #2						
Operator #: 1987 Operator Name: MERIDAD P/L District: DJ/TO  Coordinates: Letter: A Section 29 Township: 73 Range: 3  Or Latitude Longitude  Pit Type: Denydrator Location Drip: X Line Drip: Other:  Site Assessment Date: 2-27-95 Area: 08 Run: 43						
NMOCD Zone:	Land Type:	3LM ] (1)				
(From NMOCD		State $=$ (2)				
Maps) nside Outside	<ul><li>□ (1)</li><li>□ (2)</li></ul>	Fee (3) Indian <u>JKARKKA</u>				
Depth to Groundwater  Less Than 50 Feet (20 points) (1)  50 Ft to 99 Ft (10 points) (2)  Greater Than 100 Ft (0 points) (3)  Vellhead Protection Area:  5 it less than 1000 ft from wells, springs, or other sources of resn water extraction?, or : is it less than 200 ft from a private of the course of the course of the course (2) NO (0 points)						
Srizontal Distance to Surface Water Body  ess Than 200 Ft (20 points) (1)  00 Ft in 1000 Ft (10 points) (2)  reater on 1000 Ft (0 points) (3)  ame of Surface Water Body						
Burface Water Body : Perennial Rivers, Major Wash, Streams, Creeks,						
trigation Canais,Ditanes,Lakes,Ponas) stance to Nearest Ephemera: Stream $\equiv$ (1) < 100'(Navajo Pits Only)						
stance to Negrest ibnemera: :	Stream $ (1) < 1 $ $ (2) > 1 $	* * }				
TAL HAZARD RANKING SCORE		POINTS				
emarks :						

			ORIGINAL PIT LOCATION	
Originai	Pit	: a) b)	Degrees from North <u>90°</u> Footage from Wellhead <u>20</u> . Length: <u>17</u> Width: <u>19</u> Depth: <u>36"</u>	<u>2</u> —
		<del>-</del> ,	√ ↑	

Remarks :

Completed By:

Signature

7-27-95

Date

## FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 7479 Location: Strom Beg #2  Coordinates: Letter: A Section 29 Township: 23 Range: 7  Or Latitude Longitude  Date Started: 10/16/95 Run: 08 E3
FIELD OBSERVATIONS	Sample Number(s): 51/08  Sample Depth:15' Feet  Final PID Reading196.0 PID Reading Depth15' Feet  Yes No  Groundwater Encountered
CLOS: 3E	Remediation Method:  Excavation  Onsite Bioremediation  Backfill Pit Without Excavation  Soil Disposition:  Envirotech  Other Facility  Name: Jicavilla land FARM LLP  Pit Closure Date: 10-18-55  Pit Closed By: Philip
REMARKS	0.1.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0



## FIELD SERVICES LABORATORY ANALYTICAL REPORT

### PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

#### SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	JK108	947661
MTR CODE   SITE NAME:	74 799	Stromberg #2
SAMPLE DATE   TIME (Hrs):	10-16-95	1400
PROJECT:	JicPits	
DATE OF TPH EXT.   ANAL.:	10-18-05	
DATE OF BTEX EXT.   ANAL.:	10/18/95	10/19/95
TYPE   DESCRIPTION:	V6	Light Said 2 Man
• •		4 1
Fie! Remarks:	(N-30.4)(5-20.0)	)(E-25.2)(w-40.2)

#### **RESULTS**

PARAMETER	RESULT	UNITS	QUALIFIERS		ERS	
			DF	Q	M(g)	V(ml)
BENZENE	< c,5	MG/KG				
TOLUENE	1.1	MG/KG				
ETHYL BENZENE	4 0.5	MG/KG				
TOTAL XYLENES	< 1.5	MG/KG				
TOTAL BTEX	4 3	MG/KG				
TPH (418.1)	99.1	MG/KG			2.67	28
HEADSPACE PID	196	PPM				
PERCENT SOLIDS	81.4	%				

 95/10/18 14:40

THE STATE OF THE

Sample identification 047661

Initial mass of sample, g

Molume of sample after extraction, ml. 28.000

Perroleum aydrocarbons, ppm Paulet

Hellsoworsanda of hydrocarbons (1930 cm-1) 203

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2.4.7.

#### **BTEX SOIL SAMPLE WORKSHEET**

File	e :	947661	Date Printed :	10/20/95
Soil Mas	s (g):	4.99	Multiplier (L/g) :	0.00100
Extraction vo	i. (mL) :	10	CAL FACTOR (Analytical):	200
Shot Volum	e (uL) :	50	CAL FACTOR (Report):	0.20040
			DILUTION FACTOR:	1 Det. Limit
Benzene	(ug/L) :	0.00	Benzene (mg/Kg):	<b>0.000</b> 0.501
Toluene	(ug/L) :	5.64	Toluene (mg/Kg):	<b>1.130</b> 0.501
Ethylbenzene	(ug/L) :	0.00	Ethylbenzene (mg/Kg):	<b>0.000</b> 0.501
p & m-xylene	(ug/L) :	0.43	p & m-xylene (mg/Kg):	0.086 1.002
o-xylene	(ug/L) :	0.00	o-xylene (mg/Kg):	0.000 0.501
			Total xylenes (mg/Kg):	<b>0.086</b> 1.503
			Total BTEX (mg/Kg):	1.216

## EL PASO NATURAL GAS

#### **EPA METHOD 8020 - BTEX SOILS**

File : C:\LABQUEST\CHROM001\101995-1.006 Method : C:\LABQUEST\METHODS\1-101395.MET

Sample ID : 947661,4.99G,50U Acquired : Oct 19, 1995 19:00:32 Printed : Oct 19, 1995 19:26:55

User : MARLON

#### Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	4.873	0	0.0000
a,a,a TFT	6.710	6395756	142.7825
TOLUENE	8.743	1909239	5.6447
ETHYLBENZENE	12.740	0	0.0000
M & P XYLENE	13.143	174517	0.4310
O XYLENE	14.223	0	0.0000
BFB	15.817	70584304	102.4123

#### C:\LABQUEST\CHROM001\101995-1.006 -- Channel A

