DENTY DILE GAS INSPECTOR LO
DEC 221897

Meter Number:92073
cation Name:PINON MESA CPD #1
Location:TN-31 RG-14
SC-35 UL-P
3 - Navajo
NMOCD Zone:OUTSIDE
Hazard Ranking Score:00

DEGEIVED APR 1 4 1997

OIL COM. DIW DIM. 3

#### 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

GENERAL	Meter: 92073 Location: Piñon Mesa CPD # / PINON MESA A #4  Operator #: 2999 Operator Name: Meronan P/L District: KUTZ  Coordinates: Letter: P Section 35 Township: 31 Range: 14  Or Latitude Longitude  Pit Type: Dehydrator Location Drip: X Line Drip: Other:  Site Assessment Date: 1.9.95 Area: D2 Run: 42					
	(	NMOCD Zone:  (From NMOCD  Maps)  Inside  Outside  Land Type:  BLM  State  (2)  Fee  (3)  Indian with Minds Resservations  (2)				
		Depth to Groundwater  Less Than 50 Feet (20 points)				
SITE ASSESSMENT		Wellhead Protection Area: 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) ☐ (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, Irrigation Canals, Ditches, Lakes, Ponds)  Distance to Nearest Ephemeral Stream [ (1) < 100'(Navajo Pits Only) [ (2) > 100'				
}		TOTAL HAZARD RANKING SCORE: POINTS				
	Z X X	Remarks: Prount : TOPO SHOW LOCATION OUTSIDE U.Z. ONLY PIT ON LOCATION PIT IS A LOCATION DRIP. BELDINGS TO EL PASO, WILL CLOSE PIT.				
	MARKS	PIT IS A LOCATION DRIF. BRUKES				

N	ORIGINAL PIT LOCATION  Prive Mess A *4  Original Pit: a) Degrees from North 282° Footage from Wellhead 77'  b) Length: 14' Width: 14' Depth: 3						
ORIGINAL PIT LOCATION	TH' Prison west to 322						
REMARKS	Remarks: PHOTOS-10.57						
	MEASURED DISTANCE FROM PIT TO THE PINON MESA A #4 WELLHEAD.						
	Completed By:						
	Falet Champson 1.9.95						
	Signature ' Date						

## FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 92073 Location: Pinon Mesa CPD #1 (Pinon Mesa A#4)  Coordinates: Letter: P Section 35 Township: 31 Range: 14  Or Latitude Longitude  Date Started: 10-19-95 Run: 02 42
FIELD OBSERVATIONS	Sample Number(s):   Sample Depth:   Feet  Final PID Reading   Feet  Yes No  Groundwater Encountered   Approximate Depth Feet
CLOSURE	Remediation Method :  Excavation
	Soil Disposition:  Envirotech  Other Facility  Name:  Pit Closure Date: 10-19-95  Pit Closed By: Phitip Env.
REMARKS	Remarks: Dug to 12 Ft took VG Sample, read on PID was  1 ppm, Back Filled pit used 20 yds Back Fill.
	Signature of Specialist: James Fleuros (SP3191) 03/16/94



# FIELD SERVICES LABORATORY ANALYTICAL REPORT

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

## SAMPLE IDENTIFICATION

	Field	d ID		Lab ID		
SAMPLE NUMBER:	JP60		947680 Pinon Mesa#1CPD			
MTR CODE   SITE NAME:	92073		Pinon Me	25a#1C	PD	
SAMPLE DATE   TIME (Hrs):	10-19-95		095	0		
PROJECT:	PhaseI		_			
DATE OF TPH EXT.   ANAL.:	10/26	195				
DATE OF BTEX EXT.   ANAL.:	10/20/99	Š	10/20/95 Brown Sing & 6 221			
TYPE   DESCRIPTION:	VG					
Field Remarks:		RESULTS				
PARAMETER	RESULT	UNITS		QUALIFIERS		
			DF	Q	M(g)	V(ml
PENZENE	< 0.5	MG/KG				
TOLUENE	4 0.5	MG/KG				
ETHYL BENZENE	< 0.5	MG/KG				
TOTAL XYLENES	4 1.5	MG/KG				
TOTAL BTEX	< 3	MG/KG				
TPH (418.1)	53.0	MG/KG			1.98	28
HEADSPACE PID	1	PPM				
PERCENT SOLIDS	91.3	%				
	TPH is by EPA Method		EPA Method 8020		table.	

## **BTEX SOIL SAMPLE WORKSHEET**

File	e :	947680	Date Printed :	10/23/95
Soil Mas	s (g):	5.01	Multiplier (L/g) :	0.00100
Extraction vo	l. (mL) :	10	CAL FACTOR (Analytical):	200
Shot Volum	e (uL) :	50	CAL FACTOR (Report):	0.19960
			DILUTION FACTOR:	1 Det. Limit
Benzene	(ug/L) :	0.00	Benzene (mg/Kg):	<b>0.000</b> 0.499
Toluene	(ug/L):	0.80	Toluene (mg/Kg):	<b>0.160</b> 0.499
Ethylbenzene	(ug/L) :	0.00	Ethylbenzene (mg/Kg):	<b>0.000</b> 0.499
p & m-xylene	(ug/L) :	0.13	p & m-xylene (mg/Kg):	0.026 0.998
o-xylene	(ug/L) :	0.00	o-xylene (mg/Kg):	0.000 0.499
			Total xylenes (mg/Kg):	<b>0.026</b> 1.497
			Total BTEX (mg/Kg):	0.186

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

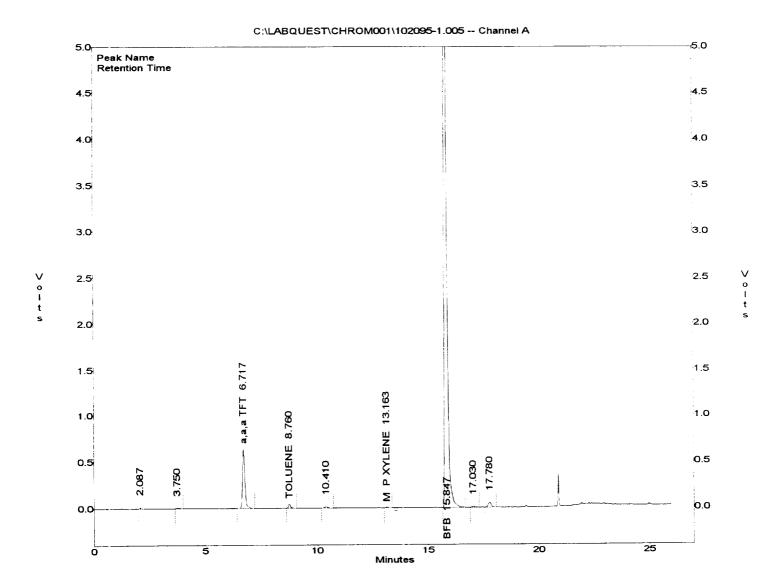
File : C:\LABQUEST\CHROM001\102095-1.005 Method : C:\LABQUEST\METHODS\1-101395.MET

Sample ID 947680,5.01G,50U Acquired Oct 20, 1995 16:16:59 Printed Oct 20, 1995 16:43:19

User MARLON

#### Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	4.873	0	0.0000
a,a,a TFT	6.717	4756529	106.1875
TOLUENE	8.760	287993	0.8005
ETHYLBENZENE	12.740	0	0.0000
M & P XYLENE	13.163	53619	0.1324
O KYLENE	14.223	0	0.0000
BF3	15.847	73433920	106.5469



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

95/10/20 14:45

Panole identification 747580

Initial head of sample, quest

Thirde of sample after extraction, midE.COD

leonbloso (Senboencobe, John 17. mt leh ebst tende (J. strobambone (1770 cz-1) 18.

Positive was the uncoordinate approximate

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