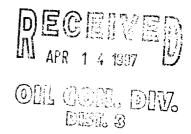
DEPUTY OIL & CHEMICASOTOR
DEC 22:237

AMINEU CO

Meter Number:89405
Location Name:Walker #5
Location:TN-31 RG-10
SC-13 UL-A
2 - Federal
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

GENEKAL	Meter: 89405 Location: WALKER #5 Operator #: 5540 Operator Name: Kockerse.coP/L District: AZTEC Coordinates: Letter: A Section 13 Township: 31 Range: 10 Or Latitude Longitude Pit Type: Denydrator Location Drip: X Line Drip: Other: Site Assessment Date: 10/30/96 Area: Run:					
	NMOCD Zone: (From NMOCD Maps) Inside Outside Land Type: BLM					
	Depth to Groundwater Less Than 50 Feet (20 points) 50 Ft to 99 Ft (10 points) Greater Than 100 Ft (0 points) (1) (2) (3)					
ASSESSMENT	Wellhead Protection Area: Is it less than 1000 ft from wells, springs, or other sources of fresh water extraction?, or : s it less than 200 ft from a private domestic water source? (1) YES (20 points) (2) NO (0 points)					
JIIE ASSI	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 Canais.Ditches.Lakes.Ponas) Distance to Nearest Epnemeral Stream (1) < 100'(Navajo Pits Only) (2) > 100'					
	TOTAL HAZARD RANKING SCORE: POINTS					
	Zamerus P&A Location, operator requesting operation and pit					
	REMOVAL FOR BLM REESEEDING					

-	
NO	ORIGINAL PIT LOCATION Original Pit: a) Degrees from North 70 Footage fro Wellhead 54 b) Length: 17 Width: 19 Dep : 2
UNIONAL I'IL LUCALION	77.19
	Remarks:
CAMBINEM	
	Completed Ey: 10/30/94 Signature Date

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 39 405 Location: walker #5 Coordinates: Letter: A Section 13 Township: 31 Range: 10 Or Latitude Longitude Longitude Date Started: 11-7-96 Area: Run:
FIELD OBSERVATIONS	Sample Number(s): MK SSS Sample Depth: 8' Feet Final PID Reading 203 PPm PID Reading Depth 8' Feet Yes No Groundwater Encountered (1) (2) Approximate Depth Feet
CLOSURE	Remediation Method: Excavation
REMARKS	Remarks: Arrived Dug Sanfle Hole Hole Hole 8' Pit Had about 4" OF Rain water In it Signature of Specialist: Progra Xieeia (SP3191) 04/07/94





FIELD SERVICES LABORATORY

ANALYTICAL REPORT PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	MK555	947980
MTR CODE SITE NAME:	89405	Walker #5
SAMPLE DATE TIME (Hrs):	11/7/96	1025
PROJECT:	PH	IASE I
DATE OF TPH EXT. ANAL.:	11/14/96	11/14/96
DATE OF BTEX EXT. ANAL.:	11/12/96	11/12/96
TYPE DESCRIPTION:	VG	Brown/yellow clay

Field Remarks:		 		

RESULTS

PARAMETER	RESULT	UNITS		QUALIF	IERS	
			DF	Q	M(g)	V(ml)
BENZENE	<0.5	MG/KG				
TOLUENE	< 0.5	MG/KG				
ETHYL BENZENE	<0.5	MG/KG				
TOTAL XYLENES	3.46	MG/KG				
TOTAL BTEX	3.46	MG/KG				
TPH (418.1)	465	MG/KG			2.29	28
HEADSPACE PID	203	PPM			11.1	
PERCENT SOLIDS	86.6	%				·

- I PH IS DV LPA MICUICA TIO. I BING DI LEX 10 5) LI FILINGINO COLL	.1 and BTEX is by EPA Method 8020 -
---------------------------------------------------------------------	-------------------------------------

The Surrogate Recovery was at	94.6	_% for this sample	All UA/UC was acce	ptable.
Narrative:				

DF = Dilution Factor Used
Approved By:

INGVZPIT.XLS

BTEX SOIL SAMPLE WORKSHEET

File Soil Mass (g) Extraction vol. (mL) Shot Volume (uL)	: 10	Date Printed : Multiplier (L/g) : CAL FACTOR (Analytical): CAL FACTOR (Report):	11/14/96 0.00098 200 0.19685
Benzene (ug/L) Toluene (ug/L) Ethylbenzene (ug/L) p & m-xylene (ug/L) o-xylene (ug/L)	: 0.00 : 1.36 : 16.40	DILUTION FACTOR: Benzene (mg/Kg): Toluene (mg/Kg): Ethylbenzene (mg/Kg): p & m-xylene (mg/Kg): o-xylene (mg/Kg): Total xylenes (mg/Kg): Total BTEX (mg/Kg):	1 Det. Limit 0.000 0.492 0.000 0.492 0.268 0.492 3.228 0.984 0.228 0.492 3.457 1.476 3.724

EL PASO FIELD SERVICES LABORATORY EPA METHOD 8020 - BTEX

File : C:\LABQUEST\CHROM000\111296-0.006 Method : C:\LABQUEST\METHODS\0-110496.MET

Sample ID : 947980,5.08G,50U Acquired : Nov 12, 1996 20:22:00 Printed : Nov 12, 1996 20:52:28

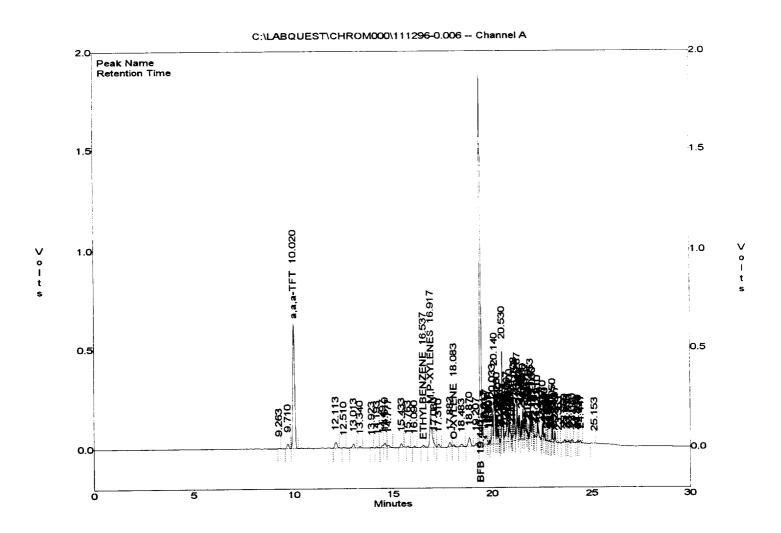
User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	7.797	0	0.0000
a,a,a-TFT	10.020	4170728	91.5119
TOLUENE	12.327	0	0.0000
ETHYLBENZENE	16.537	72984	1.3633
M, P-XYLENES	16.917	1385491	16.4218
O-XYLENE	18.083	58442	1.1573
BFB	19.440	8834579	94.5875

Channel A Group Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
TOTAL XYLENES		1443933	17.5791



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

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

96/11/14 11:01

Sample identification

947980

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* Initial mass of sample, g

Volume of sample after extraction, ml

28.000

Petroleum hydrocarbons, ppm

445.200

* Net absorbance of hydrocarbons (2930 cm-1)

0.068

