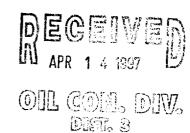
DEPUTY OIL & GAS HASPECTOR

DEC 22 1997

Meter Number:89387
Location Name:Walker #3
Location:TN-31 RG-10
SC-10 UL-P
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

GENERAL	Meter: 87387 Location: WALKER #3 Operator #: 5540 Operator Name: KOLLENGE P/L District: AZTEC Coordinates: Letter: P Section 10 Township: 3 (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
SITE ASSESSMENT	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)
	Wellhead Protection Area: Is it less than 1000 ft from wells, springs, or other sources of fresh water extraction?, or its it less than 200 ft from a private domestic water source? \square (1) YES (20 points) \square (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,Ponas) Distance to Nearest Ephemeral Stream ☐ (1) < 100'(Navajo Pits Only) ☐ (2) > 100'
	TOTAL HAZARD RANKING SCORE: POINTS
KS	Remarks: PGA Location, operator requesting operation and pit
IARKS	REMOVAL FOR BLM RESEEDING

Signature

Date

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 89387 Location: Walker #3 Coordinates: Letter: P Section to Township: 31 Range: 10 Or Latitude Longitude Date Started: 11-2-96 Area: Run:
FIELD OBSERVATIONS	Sample Number(s): MK 5.54 Sample Depth: 4' Feet Final PID Reading 313 Pfm PID Reading Depth 4' Feet Yes No Groundwater Encountered (1) (1) (2) Approximate Depth — Feet
CLOSURE	Remediation Method: Excavation
REMARKS	Remarks: Arrived Dug sample Hole Hit Rock 4' Soil Grayish Black Strong Hydro sarbow odor Signature of Specialist: Morgan Killion (SP3191) 04/07/94





EL PASO FIELD SERVICES FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	MK554	947979
MTR CODE SITE NAME:	89387	Walker #3
SAMPLE DATE TIME (Hrs):	11/7/96	915
PROJECT:	PHA	SE I
DATE OF TPH EXT. ANAL.:	11/13/96	11/13/96
DATE OF IFH EXT. ANAL	11/13/30	11/10/00
DATE OF BTEX EXT. ANAL.:	11/12/96	11/12/96

		RES	UL.	TS

87.8

Field Remarks:

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	6.71	MG/KG	2	D		
TOLUENE	76.7	MG/KG	2	D		
ETHYL BENZENE	39.7	MG/KG	2	D		
TOTAL XYLENES	358	MG/KG	2	D		
TOTAL BTEX	481	MG/KG				
TPH (418.1)	5800	MG/KG			0.57	28
HEADSPACE PID	313	PPM				ett - 2-1 - 2-1
PERCENT SOLIDS	79.0	%				en e

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

The "D" qualifier indicates that the	analyte is calculated based on a secondary dilution factor.
Narrative:	

	=	Dilution	Factor	Usea
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The Surrogate Recovery was at

Approved By:

INGVZPIT.XLS

% for this sample All QA/QC was acceptable.

BTEX SOIL SAMPLE WORKSHEET

File	e :	947979	Date Printed :	11/14/96	
Soil Mas	s (g):	5.24	Multiplier (L/g) ∶	0.00095	
Extraction vo		10	CAL FACTOR (Analytical):	400	
Shot Volum	* -	25	CAL FACTOR (Report):	0.38168	
			DILUTION FACTOR:	2	Det. Limit
Benzene	(ug/L) :	17.60	Benzene (mg/Kg):	6.718	0.954
Toluene	(ug/L) :	201.00	Toluene (mg/Kg):	76.718	0.954
Ethylbenzene	(ug/L) :	104.00	Ethylbenzene (mg/Kg):	39.695	0.954
p & m-xylene	(ug/L) :	802.00	p & m-xylene (mg/Kg):	306.107	1.908
o-xylene	(ug/L) :	136.00	o-xylene (mg/Kg):	51.908	0.954
•	,		Total xylenes (mg/Kg):	358.015	2.863
			Total BTEX (mg/Kg):	481.145	

EL PASO FIELD SERVICES LABORATORY EPA METHOD 8020 - BTEX

File : C:\LABQUEST\CHROM000\111296-0.002 Method : C:\LABQUEST\METHODS\0-110496.MET

Sample ID : 947979,5.24G,25U Acquired : Nov 12, 1996 17:35:29 Printed : Nov 12, 1996 18:06:02

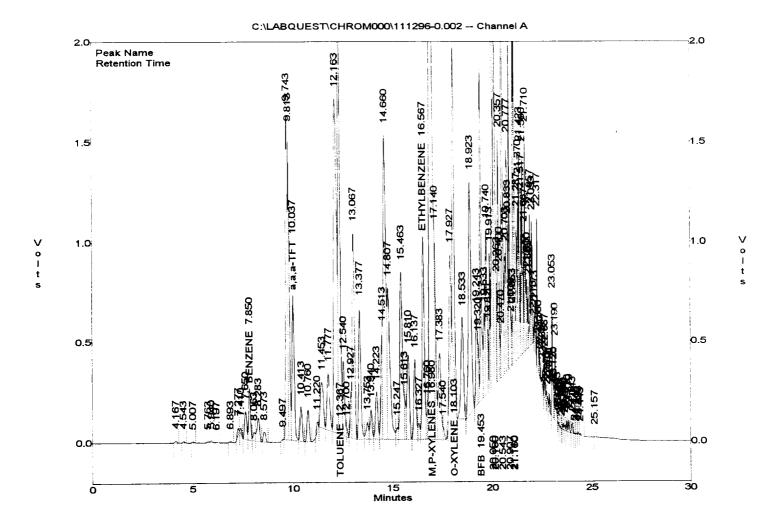
User : MARLON

Channel A Results

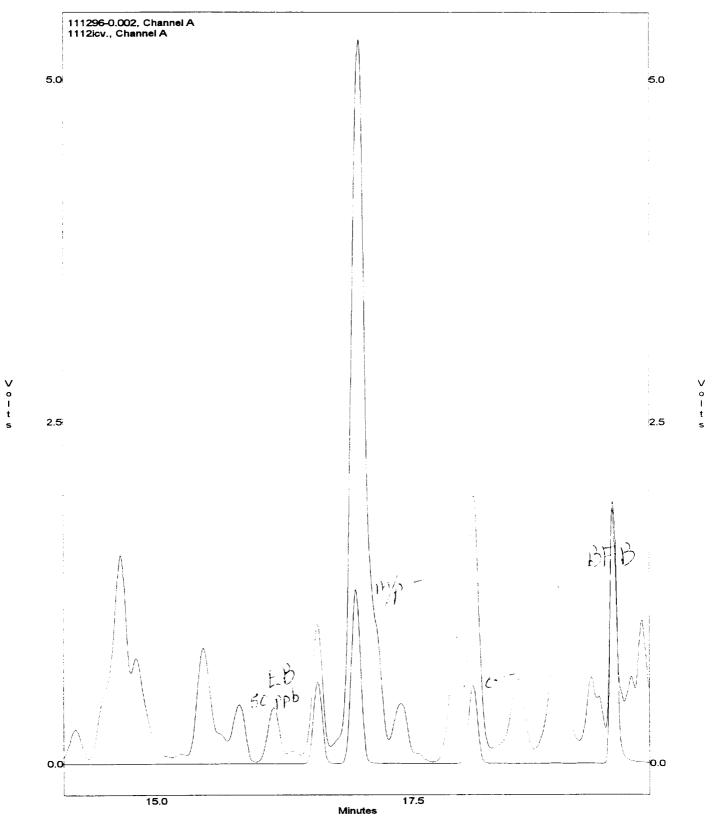
COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	7.850	1572637	17.6012
a,a,a-TFT	10.037	5370923	117.8459
TOLUENE	12.367	15948065	201.2988
ETHYLBENZENE	16.567	7680812	103.8718
M, P-XYLENES	16.980	51940588	801.5455
O-XYLENE	18.103	9612295	135.9741
BFB	19.453	8199972	87.7931

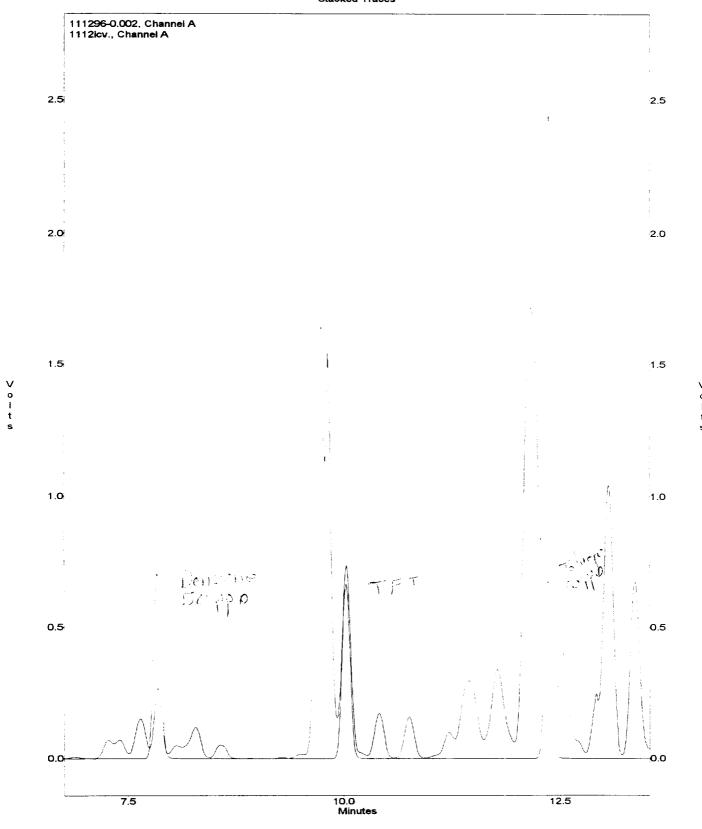
Channel A Group Results

COMPONENT	RET TIME	AREA	CONC (ug/L)	
TOTAL XYLENES		61552884	937.5196	









Sample identification 947979

Initial mass of sample, g N.570

Volume of sample after extraction, ml 28.000

. Petroleum hydrocarbons, ppm 5798.910

Net absorbance of hydrocarbons (2930 cm-1) 0.200

