

George E. West
DEPUTY OIL & GAS INSPECTOR

DEC 22 1997

Approved

Meter Number: 95256
Location Name: Lindrith B #26
Location: TN-24 RG-03
SC-09 UL-O
2 - Federal
NMOCD Zone: OUTSIDE
Hazard Ranking Score: 00

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APR 14 1997

OIL CON. DIV.
PAGE 2

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

EPFS
EL PASO FIELD SERVICES

GENERAL

Meter: 95256 Location: LINDRITH B #26
 Operator #: 47 Operator Name: MOBIL P/L District: QJTD
 Coordinates: Letter: D Section 9 Township: 24 Range: 3
 Or Latitude _____ Longitude _____
 Pit Type: Dehydrator _____ Location Drip: X Line Drip: _____ Other: _____
 Site Assessment Date: 11-21-95 Area: 08 Run: 91

SITE ASSESSMENT

NMOCD Zone: (From NMOCD Maps) Inside ☐ (1) Outside ☒ (2)

Land Type: BLM ☒ (1) State ☐ (2) Fee ☐ (3) Indian _____

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 ; Is it less than 200 ft from a private domestic water source? ☐ (1) YES (20 points) ☒ (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 LARGO WASH
 (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'

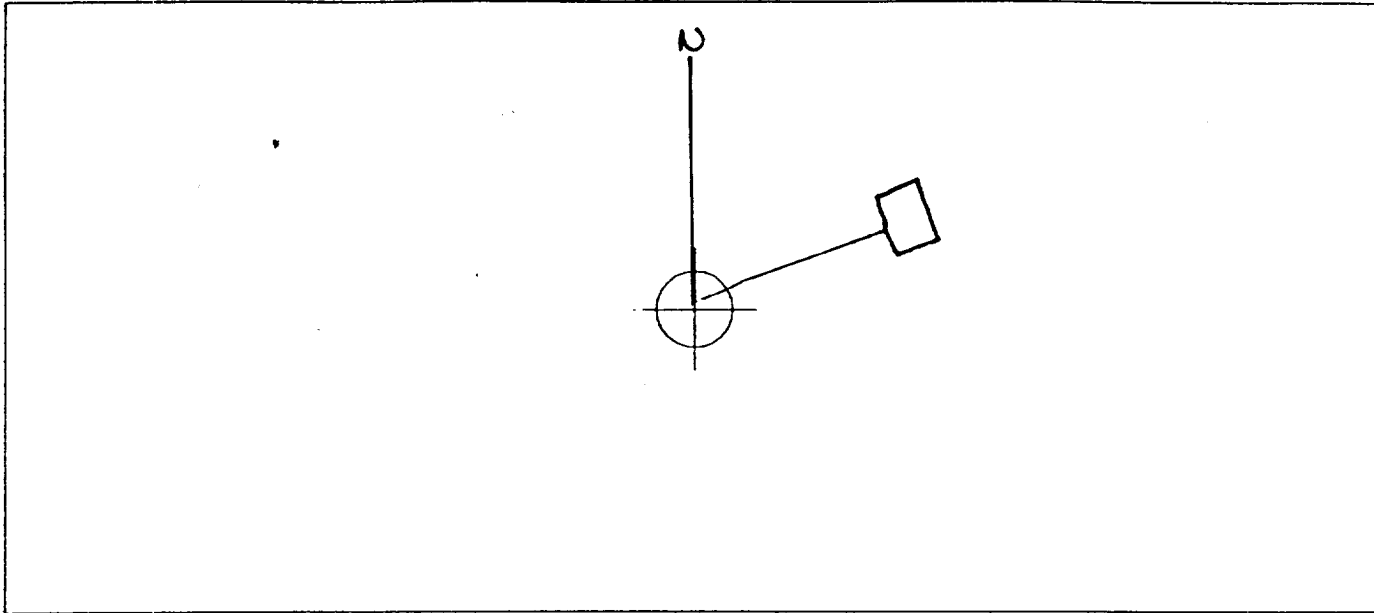
TOTAL HAZARD RANKING SCORE: 0 POINTS

REMARKS

Remarks : Pit LISTED INSIDE W.V. ZONE ON REOLINE
Pit LISTED OUTSIDE W.V. ZONE ON TOPO
Pit is ORy

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 255° Footage from Wellhead 115'b) Length : 14 Width : 13 Depth : 3

REMARKS

Remarks :

Pic. # 18, 19 in Roll

Completed By:

William Schmitt

Signature

11-21-95

Date

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	<p>Meter: <u>95256</u> Location: <u>Lindrith B #26</u></p> <p>Coordinates: Letter: <u>0</u> Section <u>9</u> Township: <u>24</u> Range: <u>3</u></p> <p>Or Latitude _____ Longitude _____</p> <p>Date Started : <u>12/1/95</u> Run: <u>08</u> <u>91</u></p>
FIELD OBSERVATIONS	<p>Sample Number(s): <u>JK154</u></p> <p>Sample Depth: <u>17'</u> Feet</p> <p>Final PID Reading : <u>0.5</u> PID Reading Depth <u>17'</u> Feet</p> <p>Yes No</p> <p>Groundwater Encountered <input type="checkbox"/> <input checked="" type="checkbox"/> Approximate Depth _____ Feet</p>
CLOSURE	<p>Remediation Method :</p> <p>Excavation <input checked="" type="checkbox"/> Approx. Cubic Yards <u>126</u> <u>LT</u> <u>12/5/95</u></p> <p>Onsite Bioremediation <input type="checkbox"/></p> <p>Backfill Pit Without Excavation <input type="checkbox"/></p> <p>Soil Disposition:</p> <p>Envirotech <input checked="" type="checkbox"/> <input type="checkbox"/> Tierra</p> <p>Other Facility <input type="checkbox"/> Name: _____</p> <p>Pit Closure Date: <u>12/2/95</u> Pit Closed By: <u>Philip</u></p>
REMARKS	<p>Remarks : <u>Pit Pid Readings (W-1.0)(S-6.2)(E-5.6)(W-10.0)</u></p> <p><u>Pit size 20x19x17 No EWG on site</u></p> <p><u>Fenc size 18x17 No wet</u></p> <p><u>more than 100' from Ephemeral stream</u></p> <p>Signature of Specialist: <u>Jack King</u></p>



FIELD SERVICES LABORATORY
ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	JK-154	947827
MTR CODE SITE NAME:	95256	Lindrieth B#26
SAMPLE DATE TIME (Hrs):	12-1-95	1530
PROJECT:	Phase I	
DATE OF TPH EXT. ANAL:	12/6/95	
DATE OF BTEX EXT. ANAL:	12/4/95	12/4/95
TYPE DESCRIPTION:	VG	Brown Sand & Clay

Field Remarks: (N-1.0)(S-6.2)(E-5.6)(W-10.0)

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	< 0.5	MG/KG				
TOLUENE	< 0.5	MG/KG				
ETHYL BENZENE	< 0.5	MG/KG				
TOTAL XYLENES	< 1.5	MG/KG				
TOTAL BTEX	< 3	MG/KG				
TPH (418.1)	10.5	MG/KG			2.03	28
HEADSPACE PID	0.5	PPM				
PERCENT SOLIDS	90.0	%				

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

The Surrogate Recovery was at 100 % for this sample All QA/QC was acceptable.
Narrative:

DF = Dilution Factor Used

Approved By: 

Date: 12-7-95

BTEX SOIL SAMPLE WORKSHEET

File	:	947827	Date Printed	:	12/5/95
Soil Mass (g)	:	5.18	Multiplier (L/g)	:	0.00097
Extraction vol. (mL)	:	10	CAL FACTOR (Analytical):		200
Shot Volume (uL)	:	50	CAL FACTOR (Report):		0.19305

		DILUTION FACTOR:	1	Det. Limit
Benzene (ug/L)	:	0.13	Benzene (mg/Kg): 0.025	0.483
Toluene (ug/L)	:	0.39	Toluene (mg/Kg): 0.075	0.483
Ethylbenzene (ug/L)	:	0.00	Ethylbenzene (mg/Kg): 0.000	0.483
p & m-xylene (ug/L)	:	0.18	p & m-xylene (mg/Kg): 0.035	0.965
o-xylene (ug/L)	:	0.00	o-xylene (mg/Kg): 0.000	0.483
			Total xylenes (mg/Kg): 0.035	1.448
			Total BTEX (mg/Kg): 0.135	

EL PASO NATURAL GAS

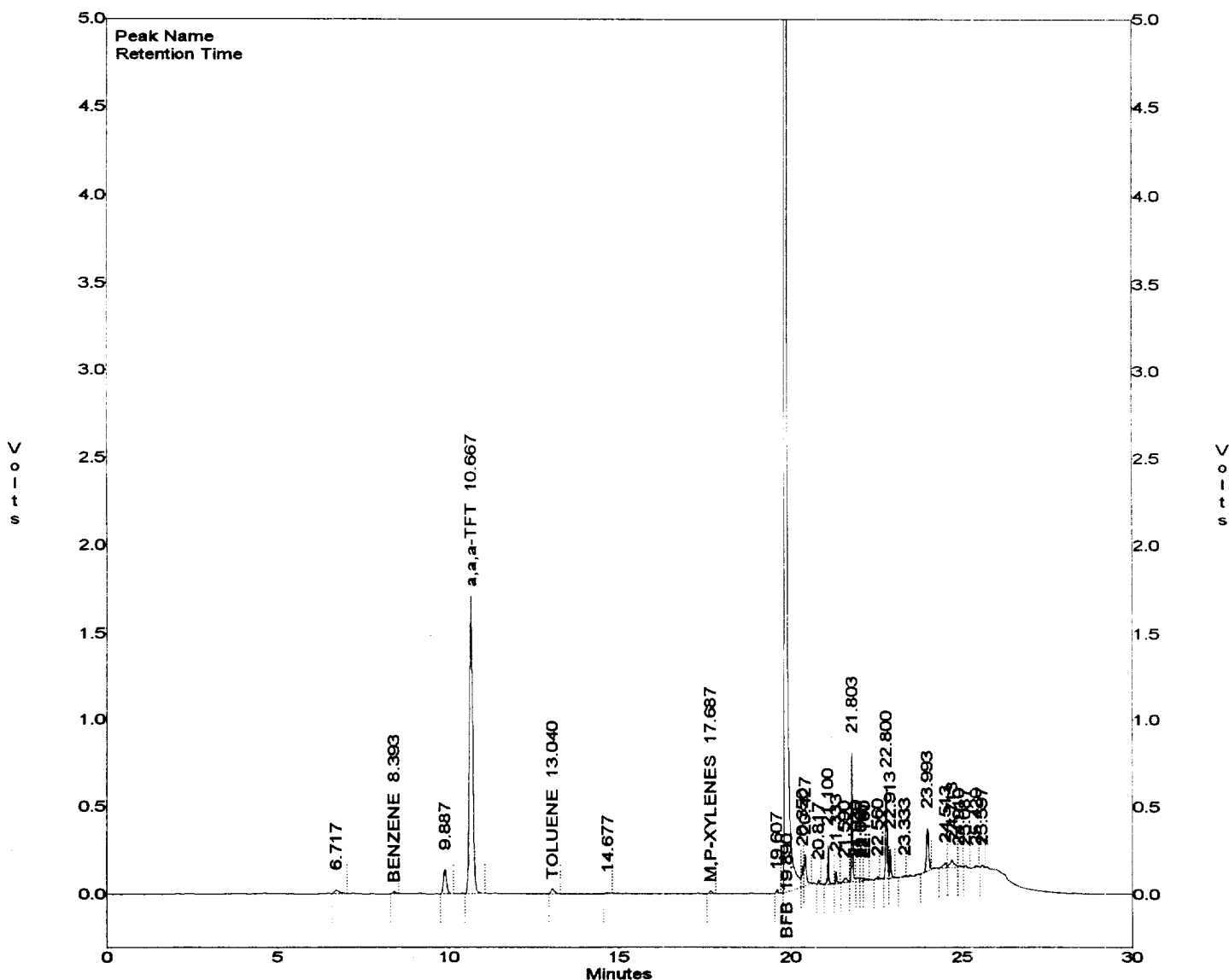
EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM000\120495-0.011
 Method : C:\LABQUEST\METHODS\0-120195.MET
 Sample ID : 947827,5.18G,50U
 Acquired : Dec 04, 1995 21:36:00
 Printed : Dec 04, 1995 22:06:23
 User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	8.393	72763	0.1305
a,a,a-TFT	10.667	11655751	0.0000
TOLUENE	13.040	207723	0.3931
ETHYLBENZENE	17.310	0	0.0000
M,P-XYLENES	17.687	96208	0.1811
O-XYLENE	18.843	0	0.0000
BFB	19.890	57413444	100.2349

C:\LABQUEST\CHROM000\120495-0.011 -- Channel A



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

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95/12/06 12:04

Sample identification
947827

Initial mass of sample, g
2.030

Volume of sample after extraction, ml
28.000

Petroleum hydrocarbons, ppm
10.526

Net absorbance of hydrocarbons (2930 cm⁻¹)
0.012

