

11-2-2-15

Approved

Meter Number:02346

Location Name:N. E. Haynes Lease No. 3

Location:TN-24 RG-05

SC-16 UL-P

6 - Jicarilla

NMOCD Zone:OUTSIDE

Hazard Ranking Score:00

RECEIVED
APR 14 1997

OIL CONSERVATION
DIVISION

**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.

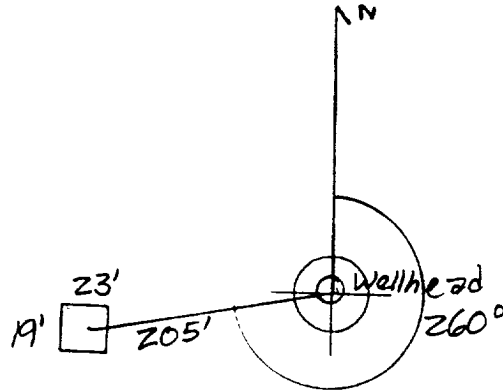
FIELD PIT SITE ASSESSMENT FORM

GENERAL	<p>Meter: <u>02-346</u> Location: <u>N.E. Haynes Lease No. 3</u> Operator #: <u>0286</u> Operator Name: <u>Conoco-Mesa</u> P/L District: <u>Ballard</u> Coordinates: Letter: <u>P</u> Section <u>16</u> Township: <u>24</u> Range: <u>5</u> Or Latitude _____ Longitude _____ Pit Type: Dehydrator _____ Location Drip: <u>X</u> Line Drip: _____ Other: _____ Site Assessment Date: <u>07/08/94</u> Area: <u>07</u> Run: <u>72</u></p>
SITE ASSESSMENT	<p>NMOCD Zone: (From NMOCD Maps) Inside <input type="checkbox"/> (1) Outside <input checked="" type="checkbox"/> (2)</p> <p>Land Type: BLM <input type="checkbox"/> (1) State <input type="checkbox"/> (2) Fee <input type="checkbox"/> (3) Indian <u>Jicarilla Apache</u></p> <p>Depth to Groundwater Less Than 50 Feet (20 points) <input type="checkbox"/> (1) 50 Ft to 99 Ft (10 points) <input type="checkbox"/> (2) Greater Than 100 Ft (0 points) <input checked="" type="checkbox"/> (3)</p> <p>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? <input type="checkbox"/> (1) YES (20 points) <input checked="" type="checkbox"/> (2) NO (0 points)</p> <p>Horizontal Distance to Surface Water Body Less Than 200 Ft (20 points) <input type="checkbox"/> (1) 200 Ft to 1000 Ft (10 points) <input type="checkbox"/> (2) Greater Than 1000 Ft (0 points) <input checked="" type="checkbox"/> (3)</p> <p>Name of Surface Water Body <u>Cañada Larga</u> (Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds) Distance to Nearest Ephemeral Stream <input type="checkbox"/> (1) < 100' (Navajo Pits Only) <input type="checkbox"/> (2) > 100'</p> <p>TOTAL HAZARD RANKING SCORE: <u>0</u> POINTS</p>
REMARKS	<p>Remarks : <u>Redline Book - Outside Vulnerable Zone Type - Outside</u> <u>One pit on site, pit is dry, will close one pit.</u></p>

DIASH T 11

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 260° Footage from Wellhead 205'
b) Length : 19' Width : 23' Depth : 3'



REMARKS :

Pictures @ 11:45 (8-11, Roll I)

End Dump.

Meter # is not in the redline book.

Completed By:

Snack Kelly

Signature

7/8/94

Date



FIELD SERVICES LABORATORY

ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	JK82	947489
MTR CODE SITE NAME:	02346	N.E. Ha res Lease No. 3
SAMPLE DATE TIME (Hrs):	09-18-95	1213
PROJECT:	JicPits	
DATE OF TPH EXT. ANAL:	9-20-95	
DATE OF BTEX EXT. ANAL:	9/19/95	9/21/95
TYPE DESCRIPTION:	VG	Light brown Sand and Clay

Field Remarks: (N-57.3)(S-316.0)(E-39.5)(W-72.3)

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	23.6	MG/KG	2	D		
TOLUENE	93.0	MG/KG	2	D, DI		
ETHYL BENZENE	33.6	MG/KG	2	D		
TOTAL XYLENES	116.3	MG/KG	2	D		
TOTAL BTEX	313	MG/KG	2	D		
TPH (418.1)	18440 18400	MG/KG			0.52	28
HEADSPACE PID	295	PPM				
PERCENT SOLIDS	93.0	%				

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

The Surrogate Recovery was at 97% for this sample All QA/QC was acceptable.

Narrative:

Result for Toluene is out of calibration range

DF = Dilution Factor Used

Approved By:

Date: 9-22-95

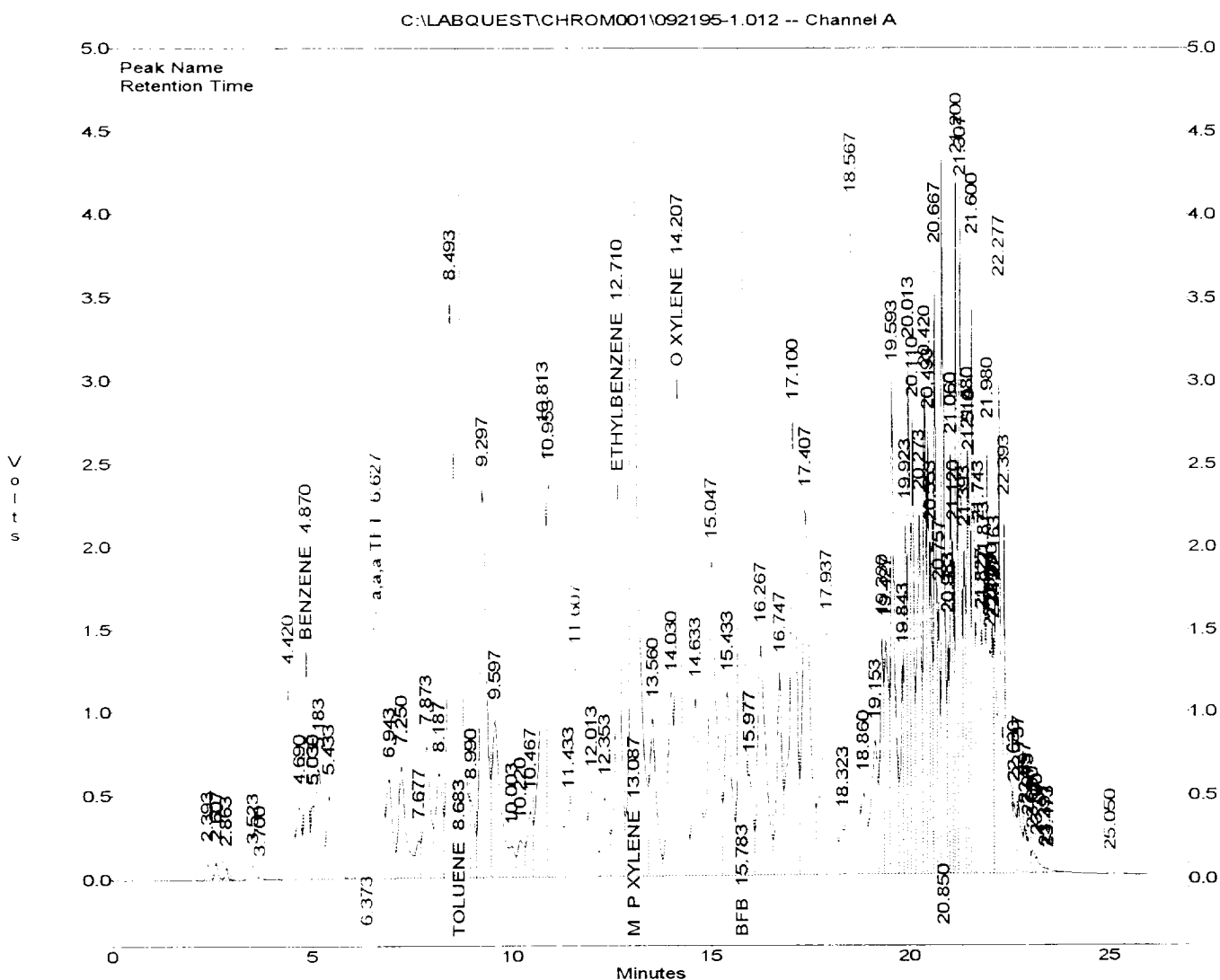
EL PASO NATURAL GAS

EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM001\092195-1.012
 Method : C:\LABQUEST\METHODS\9001.MET
 Sample ID : 947489,4.97G,50U
 Acquired : Sep 21, 1995 20:50:20
 Printed : Sep 21, 1995 21:16:56
 User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	4.870	8714.0	58.6475
a,a,a TFT	6.627	17133.6	371.1249
TOLUENE	8.683	64069284	231.0057
ETHYLBENZENE	12.710	22083148	82.4836
M & P XYLENE	13.087	81776424	294.0789
O XYLENE	14.207	28625346	112.4246
BFB	15.783	70000176	96.5664



BTEX SOIL SAMPLE WORKSHEET

File	:	947489	Date Printed	:	9/22/95
Soil Mass (g)	:	4.97	Multiplier (L/g)	:	0.00101
Extraction vol. (mL)	:	20	DF (Analytical)	:	400
Shot Volume (uL)	:	50	DF (Report)	:	0.40241

			Det. Limit
Benzene (ug/L)	:	58.60	
Benzene (mg/Kg):		23.581	1.006
Toluene (ug/L)	:	231.00	
Toluene (mg/Kg):		92.958	1.006
Ethylbenzene (ug/L)	:	82.50	
Ethylbenzene (mg/Kg):		33.199	1.006
p & m-xylene (ug/L)	:	294.00	
p & m-xylene (mg/Kg):		118.310	2.012
o-xylene (ug/L)	:	112.00	
o-xylene (mg/Kg):		45.070	1.006
Total xylenes (mg/Kg):		163.380	3.018
Total BTEX (mg/Kg):		313.119	

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

Perkin-Elmer Model 1600 FT-IR
 Analysis Report

25/09/20 15:29

Sample identification
 947489

Initial mass of sample, g
 0.520

Volume of sample after extraction, ml
 28.000

Petroleum hydrocarbons, ppm
 18441.350

Net absorbance of hydrocarbons (2930 cm⁻¹)
 0.590

Y: Petroleum hydrocarbons spectrum

15:29

