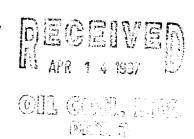
Denny E 78-47 Dennois a chainsteoide

DEC 22 1941

Meter Number:93466
Location Name:JICARILLA 37-B #7
Location:TN-24 RG-05
SC-24 UL-F
6 - Jicarilla

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

W. L.

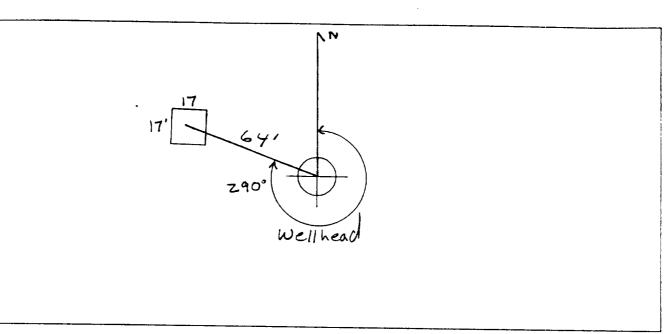
GENERAL	Meter: 93466 Location: Ticarilla 37-B Well #7 Operator #: 0108 Operator Name: Alpine oil P/L District: Ojita Coordinates: Letter: F Section 24 Township: 24N Range: 5W Or Latitude Longitude Pit Type: Dehydrator Location Drip: X Line Drip: Other: Site Assessment Date: 7-12-94 Area: 08 Run: 87
SITE ASSESSMENT	NMOCD Zone: (From NMOCD Maps) Inside Outside (1) Fee (3) Indian Depth to Groundwater Less Than 50 Feet (20 points) Greater Than 100 Ft (0 points) 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? Horizontal Distance to Surface Water Body Less Than 200 Ft (20 points) (2) Greater Than 1000 Ft (0 points) (3) Horizontal Distance to Surface Water Body Less Than 200 Ft (20 points) (3) Name of Surface Water Body (Surface Water Body (Surface Water Body - (Surface Water Body) (Surface W
REMARKS	Remarks: Redline Book - Butside Vulnerable Zone Topo - Outside
REN	one pit on location-day oil furter in pit

-1-

(SP3190) 04/08/94

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North <u>290</u> Footage from Wellhead <u>64</u>



Remarks:	
Picture @ 1229 # 5 Roll # Z (Disposable)	
- oil & water in pit	

Completed By:

Signature

7-12-94

Date

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 93466 Location: J.LAR.11A 37.8 WELL #7 Coordinates: Letter: Ε Section 4 Township: 24Ν Range: 5ω Or Latitude Longitude Longitude
FIELD OBSERVATIONS	Sample Number(s): SIDI
CLOSURE	Remediation Method: Excavation Onsite Bioremediation Backfill Pit Without Excavation Soil Disposition: Envirotech Other Facility Name: Pit Closure Date: 10-3-95 Pit Closed By: P
REMARKS	Remarks: PED DEADINGS (N-85)(5-0.6)(E-54)(W-65.3) PH SIZE ZUXZYX9 PH LISTEN OUTSIDE W.V. ZONG. MORE THAN JOU' FROM EPHEMEKAL STREAM FENCE SIZE ZIXZIX3 (NET) Signature of Specialist: Jicholas Schmall



FIELD SERVICES LABORATORY ANALYTICAL REPORT

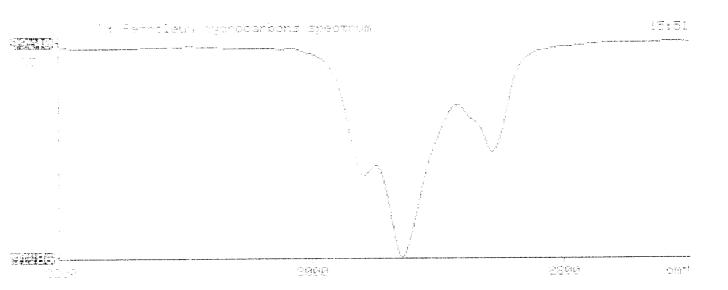
PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	NS101	947570
MTR CODE SITE NAME:	93466	Jic. 37-B #7
SAMPLE DATE TIME (Hrs):	10-02-95	0945
PROJECT:	dic Dits	
DATE OF TPH EXT. ANAL.:	2/4/34	
DATE OF BTEX EXT. ANAL.:	10/3/95	16/3/95
TYPE DESCRIPTION:	VG	Light Francis 50 -
•	-	
Field Remarks:		

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	< c.5	MG/KG				
TOLUENE	4 6.5	MG/KG				
ETHYL BENZENE	< 0.5	MG/KG				
TOTAL XYLENES	× 1.5	MG/KG				
TOTAL BTEX	43	MG/KG				
TPH (418.1)	194	MG/KG			2.0	J. F
HEADSPACE PID	10.0	PPM		e garagat (see Alice and see Alice and see		
PERCENT SOLIDS	96.5	%				



BTEX SOIL SAMPLE WORKSHEET

File	:	947570	Date Printed	: 10/4/95
Soil Mass	(g):	4.98	Multiplier (L/g)	: 0.00100
Extraction vol.	(mL) :	10	DF (Analytical)	: 200
Shot Volume	(uL) :	50	DF (Report)	: 0.20080

				ט	et. Limit
Benzene	(ug/L) :	0.00	Benzene (mg/Kg):	0.000	0.502
Toluene	(ug/L) :	0.54	Toluene (mg/Kg):	0.108	0.502
Ethylbenzene	(ug/L) :	0.28	Ethylbenzene (mg/Kg):	0.056	0.502
p & m-xylene	(ug/L) :	1.04	p & m-xylene (mg/Kg):	0.209	1.004
o-xylene	(ug/L) :	0.25	o-xylene (mg/Kg):	0.050	0.502
			Total xylenes (mg/Kg):	0.259	1.506

Total BTEX (mg/Kg): 0.424

EL PASO NATURAL GAS EPA METHOD 8020 - BTEX SOILS

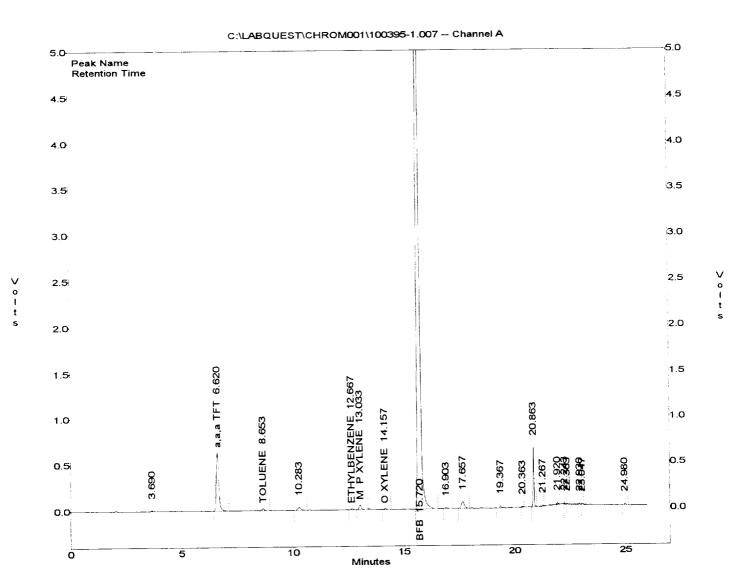
File : C:\LABQUEST\CHROM001\100395-1.007 Method : C:\LABQUEST\METHODS\1-091895.MET

Sample ID : 947570,4.98G,50U Acquired : Oct 01, 1995 15:26:24 Printed : Oct 01, 1995 15:52:48

User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	4.917	0	0.0000
a,a,a TFT	6.620	4759010	103.0818
TOLUENE	8.653	149379	0.5379
ETHYLBENZENE	12.667	71195	0.2786
M & P XYLENE	13.033	343527	1.0368
O XYLENE	14.157	60702	0.2549
BFB	15.720	73588952	101.5171





ATI I.D. 510329

October 13, 1995

El Paso Natural Gas P.J. Box 4990 Farmington, NM 87499

Project Name/Number: PIT CLOSURE/JIC PITS 24324

Attention: John Lambdin

On 10/10/95, Analytical Technologies, Inc., (ADHS License No. AZ0015), received a request to analyze non-aqueous samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

Due to sample heterogeneity, varying results were obtained for sample "947575" on EPA method 418.1. The low and high values are submitted.

If you have any questions or comments, please do not hesitate to contact us at (505) 344-3777.

Kimberly D. McNeill Project Manager

MR:jt

Enclosure

H. Mitchell Rubenstein, Ph.D. Laboratory Manager

14 Mitchellas

12110 OCT 1995
Lab
Francisco



GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8015 MODIFIED

CLIENT

: EL PASO NATURAL GAS ATI I.D.: 510329

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE/JIC PITS

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	947570	NON-AQ	10/02/95	10/10/95	10/10/95	1
PARAME	TER		UNITS	01		
FUEL H	YDROCARBONS	· 	MG/KG	25		
HYDROC	ARBON RANGE			C12-C36		
HYDROC	ARBONS QUANTITATED	USING		DIESEL		

SURROGATE:

O-TERPHENYL (%)

91

93466 NS101