Denny & Fout DEPLITY OIL & GAS INSPECTOR

DEC 2 2 1997

Meter Number:93438 Location Name:PAN AMERICAN FEDERAL C#1E

Location:TN-30 RG-12 SC-19 UL-I

4 - Fee

NMOCD Zone: OUTSIDE Hazard Ranking Score: 00

PECEIVED N APR 1 4 1997

011 GON. DIW. DIST. 3



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.

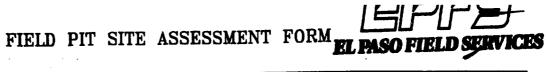
In general, outside of the vulnerable area and alluvial valleys, bedrock material is generally encountered within 20 feet of the ground surface. Bedrock material in the San Juan Basin consists of interbedded sandstones, shales and clays. According to Freeze and Cherry, 1979, the hydraulic conductivity 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.



GENERAL	Meter: 93438 Location: PAN AMERICAN FEDERAL (#18  Operator #: 0203 Operator Name: Amoco P/L District: Kutz  Coordinates: Letter: Section 19 Township: 30 Range: 12  Or Latitude Longitude ——  Pit Type: Dehydrator Location Drip: X Line Drip: Other: —  Site Visit Date: 3.22.94 Run: 02 22
SITE ASSESSMENT	NMOCD Zone: Inside Land Type: BLM (From NMOCD Vulnerable State Maps)  Zone Fee Indian  Depth to Groundwater Less Than 50 Feet (20 points)  50 Ft to 99 Ft (10 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?  YES (20 points) NO (0 points)  Horizontal Distance to Surface Water Body
IS	Less Than 200 Ft (20 points)  200 Ft to 1000 Ft (10 points)  Greater Than 1000 Ft (0 points)  Name of Surface Water Body  (Surface Water Body: Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)  TOTAL HAZARD RANKING SCORE: POINTS
REMARKS	Remarks: THREE PITS ON LOCATION. WILL CLOSE ONLY ONE. LOCATION IS FENCED OFF. PIT JUSIDE FENCE. GATE IS LOCKED. PIT IS DRY. NOT CLOSE PIT WITH RED FENCE POST. DEHY IS ETT. ORDATIONAL WILL CLOSE LOCATION DRIP PIT W/ ORANGE POST.

(SP3190) 03/16/94

	ORIGINAL PIT LOCATION
ORIGINAL PIT LOCATION	Original Pit : a) Degrees from North <u>332°</u> Footage to Wellhead <u>115′</u> b) Degrees from NorthFootage to Dogleg
	Dogleg Name c) Length :19´_ Width :19´_ Depth :4′
	18 NEILHEAD
	33 <sup>2°</sup>
REMARKS	Remarks:  STARTED TAKING PICTURESS AT. 4:00 P.M. ENDRUMP
	Completed By:  Signature  Signature  Signature

## FIEL PIT REMEDIATION/CLOST E FORM

GENERAL	Meter: 93438 Location: Pan Annican Federal C#1E  Coordinates: Letter: Section 19 Township: 30 Range: 12  Or Latitude Longitude  Date Started: S-11-94 Area: 02 Run: 22
FIELD OBSERVATIONS	Sample Number(s): VW56  Sample Depth: 6' Feet  Final PID Reading 5 PID Reading Depth 6' Feet  Yes No  Groundwater Encountered (1) (2) Approximate Depth Feet
CLOSURE	Remediation Method :  Excavation
	Envirotech (1) (3) Tierra  Other Facility (2) Name:  Pit Closure Date: <u>S-11-94</u> Pit Closed By: <u>BEZ</u>
REMARKS	Remarks: EPNG Markers. 6 Hit sundstone
	Signature of Specialist: Valo Wilson (5P3191) 04/07/94

-2-



## FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

## SAMPLE IDENTIFICATION

	Field ID			Lab ID		
SAMPLE NUMBER:			945131			
MTR CODE : SITE NAME:	NAME: 97.938 E (Hrs): 5-11-91		N/A 0920 I/A \$ -12 -91/			
SAMPLE DATE TIME (Hrs):						
SAMPLED BY:						
DATE OF TPH EXT. ANAL.:						
DATE OF BTEX EXT. ANAL.			NIA			
TYPE DESCRIPTION:			Course Brun Sc			br
REMARKS:			·····	<u>.</u>		
	R	ESULTS				
				<del></del>		
PARAMETER	RESULT UNITS	DF	QUALIF	IERS M(g)	V(m	
DENZENE		MG/KG				
BENZENE		INIG/KG				
TOLUENE		MG/KG				
ETHYL BENZENE		MG/KG				
TOTAL XYLENES		MG/KG				
TOTAL BTEX		MG/KG				
TPH (418.1)	<10	MG/KG			2,11	28
HEADSPACE PID	5	PPM				
PERCENT SOLIDS	95.3	%				
ne Surrogate Recovery was at arrative:	- TPH is by EPA Method 418	8.1 and BTEX is by EPA % for this sampl		was acce	otable.	

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

Perkin-Elmer Model 1600 FT-IR Analysis Report 

04/05/12 13:50

Sample identification 145171

Initial mass of sample, g

Milume of r<mark>ample after extraction,</mark> al

Fritzleum hydrocarbers, ppm | Note: Weerbards of hydrocarbors (2930 cm-1)

