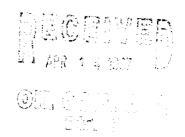
DEPUTY OIL & GAS HISPECTOR

DEC 22 1997

Meter Number:94473
Location Name:J APACHE C #3
Location:TN-24 RG-05
SC-35 UL-D
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.



(CD310A) N4 /AR /04

FIELD PIT SITE ASSESSMENT FORM

7	
GENERAL	Meter: 94473 Location: J Apache (C' Welf # 3 Operator #: 0124 Operator Name: Amenda P/L District: Ojito Coordinates: Letter: D Section 35 Township: 24N Range: 05W Or Latitude Longitude Pit Type: Dehydrator Location Drip: X Line Drip: Other: Site Assessment Date: 7-12-94 Area: 08 Run: 81
SITE ASSESSMENT	NMOCD Zone: (From NMOCD Maps) Inside Outside Outside 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) Greater Than 1000 Ft (0 points) Greater Than 1000 Ft (10 points) Greater Body Less Than 200 Ft (20 points) (3) Name of Surface Water Body (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: POINTS
KKS	Remarks: Redline Book - Outside Vulgerable Zone Tope- Outside
REMARKS	One pit on location
2	Drief-Alaman

		-
ORIGINAL PIT LOCATION	Original Pit :	ORIGINAL PIT LOCATION a) Degrees from North 33z Footage from Wellhead 77 b) Length: 16 Width: 16 Depth: 3
	•	332.
		Wellhead
REMARKS	Remarks:	Photos a 1313 krs
	Completed By	
		Signature Date

. .

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 94473 Location: JAPAChE 'C' WELL #3 Coordinates: Letter: D Section 35 Township: 24N Range: 05W Or Latitude Longitude Longitude Date Started: 10-2-95 Run: 08 81
FIELD OBSERVATIONS	Sample Number(s): \(\text{NSIØ3} \) Sample Depth: \(\frac{1}{2} \) Final PID Reading \(\frac{7.0}{2} \) Yes No Groundwater Encountered \(\square \text{No} \) Approximate Depth \(\frac{1}{2} \) Feet
CLOSURE	Remediation Method: Excavation
REMARKS	Pit Closure Date: 10-10-95 Pit Closed By: Philip Remarks: HIT ROCK & D H loot SAMPLED PLD READING 7 PPM NO DIRT HAWED PUSHIN PIT LISTED CUTSIDE W. U. ZONE. E.P. N. G. (NORMAN) ONSHE MORE THAN 100' FROM EDHEMERAL STREAM. FENCE 28x 28x 3 Signature of Specialist: Schmolte. (583191) 03/16/94



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

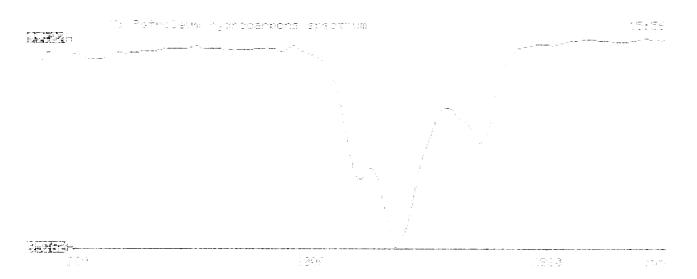
	Field ID	Lab ID
SAMPLE NUMBER:	NS103	947572
MTR CODE SITE NAME:	94473	Apache 101 Well#3
SAMPLE DATE TIME (Hrs):	10-02-95	1345
PROJECT:	Jic Pits	
DATE OF TPH EXT. ANAL.:	1777 95	
DATE OF BTEX EXT. ANAL.:	16/3/95	10/3/95
TYPE DESCRIPTION:	VG	Lingt transition of the

Field Remarks: No wall PID reading.

RESULTS

PARAMETER	RESULT	UNITS		QUALIFIERS				
			DF	Q	M(g)	V(ml)		
BENZENE	L 0.5	MG/KG						
TOLUENE	4 0.5	MG/KG						
ETHYL BENZENE	4 0.5	MG/KG						
TOTAL XYLENES	4 1.5	MG/KG						
TOTAL BTEX	4.3	MG/KG						
TPH (418.1)	43.3	MG/KG			2.05	25		
HEADSPACE PID	7.0	РРМ						
PERCENT SOLIDS	81.2	%		di .				

	TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020				
The Surrogate Recovery was at Narrative:	100 %	for this sample	All QA/QC was acceptable.		
DF = Dilution Factor Used					
\sim \sim			Data	10-4-91	



BTEX SOIL SAMPLE WORKSHEET

File	:	947572	Date Printed	:	10/4/95
Soil Mass	(g):	5.21	Multiplier (L/g)	:	0.00096
Extraction vol.	(mL):	10	DF (Analytical)	:	200
Shot Volume	(uL) :	50	DF (Report)	:	0.19194

					į	Det. Limit
Benzene	(ug/L) :	0.00	Benzene	(mg/Kg):	0.000	0.480
Toluene	(ug/L) :	0.25	Toluene	(mg/Kg):	0.048	0.480
Ethylbenzene	(ug/L) :	0.00	Ethylbenzene	(mg/Kg):	0.000	0.480
p & m-xylene	(ug/L) :	0.49	p & m-xylene	(mg/Kg):	0.094	0.960
o-xylene	(ug/L) :	0.00	o-xylene	(mg/Kg):	0.000	0.480
			Total xylenes	(mg/Kg):	0.094	1.440

Total xylenes (mg/Kg): 0.094 Total BTEX (mg/Kg): 0.142

