DEPUTY OIL & GAS INSPECTOR

DEC 3 0 1997

Meter Number:87238
Location Name:STATE COM #1Y
Location:TN-29 RG-08

SC-02 UL-H 1 - State

MOCD Zone: OUTSIDE Hazard Ranking Score: 00

DECEIVED N APR 1 4 1997

OIL COM. DIV.

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 FORMEL PASO FIELD SERVICES

GENERAL	Meter: \$7238 Location:STATE CoM # 19 Operator #: \$367 Operator Name: \$\frac{\squittentano}{\text{Royaltry}} \text{P/L District: Rloomfield} Coordinates: Letter: \(\daggered \) Section \(\alpha \) Township: \(\alpha \) Range: \(\frac{\squittentano}{\squittentano} \) Or \(\text{Latitude} \) Longitude \(\docsign \) Pit Type: Dehydrator \(\delta \) Location Drip: \(\docsign \) Line Drip: \(\docsign \) Other: \(\docsign \) Site Assessment Date: \(\docsign \) Site Area: \(\docsign \) Run: \(\docsign \) Run: \(\docsign \) Run: \(\docsign \) Area: \(\docsign \) Run: \(\docsign \) Other: \(\docsign \)
SITE ASSESSMENT	NMOCD Zone: Cand Type: BLM
REMARKS	Remarks: THREE PITS ON LOCATION. WILL CLOSE DULY ONE PIT IS DRY, LOCATION IS ON TOP OF MANZANIARES MESA. REPLINE AND TOPO CONFIRMED LOCATION TO BE OUTSIDE THE V.Z. PUSH IN

(SP3190) 04/08/94

ORIGINAL PIT LOCATION	ORIGINAL PIT LOCATION STATE COM *I Original Pit : a) Degrees from North289° Footage from Wellhead b) Length :Y9' Width :19' Depth :9' STATE COM *I NOTIGINAL PIT LOCATION STATE COM *I NOTIGINAL PI	71'
REMARKS	Remarks: Took Pictures at END DUMP DEHY PIT FOR THIS STATE COM IY LOCATION IS ACTUALLY ON ANOTHER LOCATION THAT HAS BEEN P. A'D. MEASUREMENTS AND BEARING WERE FROM THE ABANDONED WELL HEAD OF THE STATE COM #/ BECAUSE IT MUCH CLOSER THAN THE STATE COM IY WELLHEAD. THE STATE COM IS APPROXIMATELY 250' N OF THE STATE COM #/Y.	MAS
	Completed By: Signature Solvery Signature Solvery Signature Solvery Signature	

LIEFT LII VEMENTHIIOM CFOROME LOIM

GENER/	Meter: 87238 Location: Ste Con # 19 Coordinates: Letter: # Section 2 Township: 29 Range: 8 Or Latitude Longitude Date Started: 6-11-91 Area: 10 Run: 72
FIELD OBSERVATIONS	Sample Number(s): William Sample Depth: Z' Feet Final PID Reading 257 PID Reading Depth Z Feet Yes No Groundwater Encountered (1) (2) Approximate Depth Feet
CLOSURE	Soil Disposition: Envirotech (1) (3) Tierra Other Facility (2) Name: Pit Closure Date: 6-1-94 Pit Closed By: 1355.
DEWADING	Signature of Specialist: Vale bullion
1	(SP3191) 04/07/94



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID		
SAMPLE NUMBER:	٧٤١١٥٨	945321		
MTR CODE SITE NAME:	87238	N/A		
SAMPLE DATE TIME (Hrs):	10-1-94	1325		
SAMPLED BY:		N/A		
DATE OF TPH EXT. ANAL.:	6/0/94	6/10/94		
DATE OF BTEX EXT. ANAL.:	NIA	NIA		
TYPE DESCRIPTION:	V C=	Brown sand + clay		

REMARKS: * RERUN TPH

RESULTS

PARAMETER	RESULT UNITS	UNITS	QUALIFIERS			
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			DF	Q	M(g)	V(ml)
BENZENE		MG/KG				
TOLUENE		MG/KG				
ETHYL BENZENE		MG/KG				
TOTAL XYLENES		MG/KG				
TOTAL BTEX		MG/KG				
TPH (418.1)	632	MG/KG			2.13	28
HEADSPACE PID	257	PPM				
PERCENT SOLIDS	88.4	%			<u> </u>	

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

he Surrogate Recovery was at	NA % for the	nis
Jarrative:	•	

% for this sample All QA/QC was acceptable.

)F = Dilution Factor Used

Jay. Sin

Dans 6/11/94



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

	SAMPLE	IDENTIFICA	ATION				
	Field	łD		Lab ID			
SAMPLE NUMBER:	٧W	164	945	321			
MTR CODE SITE NAME:	872	38		N/A			
SAMPLE DATE TIME (Hrs):	6-1-94		13	1325			
SAMPLED BY:				<u> </u>			
DATE OF TPH EXT. ANAL.:	6-3-	7.4	6/3/94				
DATE OF BTEX EXT. ANAL.:	NIA			NIA			
TYPE DESCRIPTION:	V G		BRUNN	SAUR Y	CAX		
REMARKS:							
		RESULTS	<u> </u>				
PARAMETER	RESULT	UNITS		QUALIF	ERS		
			DF	Q	M(g)	V(mi	
BENZENE		MG/KG					
TOLUENE		MG/KG					
ETHYL BENZENE		MG/KG					
TOTAL XYLENES		MG/KG					
TOTAL BTEX		MG/KG					
TPH (418.1)	1,190	MG/KG			2.11	28	
HEADSPACE PID	257	PPM					
PERCENT SOLIDS	28.4	%					
	- TPH is by EPA Method 4			·ac =====	a table		
re Surrogate Recovery was at irrative:	nutside	% for this samp	,	was accep			
F = Dilution Factor Used		·			.		
oproved By:			Date:				