DEPUTY OIL & CAS INSPECTOR

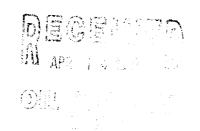
DEC 3 0 1997

Meter Number:89083
Location Name:HUBBELL #13
Location:TN-29 RG-10

SC-17 UL-D 2 - Federal

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.

RTS

### FIELD PIT SITE ASSESSMENT FORM



GENERAL	Meter: \$9083 Location: Hubbell #13  Operator #: Operator Name: P/L District:  Coordinates: Letter: Section Township: Range:  Or
S SITE ASSESSMENT	NMOCD Zone:   Land Type:   BLM     (1)
MARKS	Remarks :

### FIELD PIT SITE ASSESSMENT FORM

<b>(</b>					
	Meter: 89083 Location: Hubber # 13				
GENERAL	Operator #: <u>2999</u> Operator Name: <u>MERINIAN</u> P/L District: <u>BloomFELD</u>				
	Coordinates: Letter: D Section 17 Township: 29 Range: 10				
	Or Latitude Longitude				
	( France out Schroen				
	Pit Type: Dehydrator Location Drip: Line Drip: Other:X Site Visit Date: 4.13.94 Run:/O 81				
	Site visit bute Run: 81				
	NMOCD Zone: Inside Land Type: BLM X (From NMOCD Vulnerable State C) Maps) Zone X Fee C Indian				
INE	Depth to Groundwater Less Than 50 Feet (20 points) □ 50 Ft to 99 Ft (10 points) □ Greater Than 100 Ft (0 points) ☒				
ASSESSMENT	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)				
SITE	Horizontal Distance to Surface Water Body 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				
RS	Remarks: ONLY PIT ON LOCATION, PIT IS PRY, LOCATION IS UP ON				
REMARKS	TOP OF A MESA. DON'T KNOW WHY THIS LOCATION IS IN THE WATER				
RE	VULNERARIE ZONE. THIS LOCATION USED TO HAVE A SEPERATOR ON THIS PIT BUT IT WAS REMOVED AND THE METER RUN WAS TIED IN DIRECT TO THE WELLHEAD.				
	CONTROL OF THE DELLHEAD				

	ODIONILL DATE CO.						
	ORIGINAL PIT LOCATION						
	Original Pit : a) Degrees from North <u>143°</u> Footage to Wellhead <u>17´</u> b) Degrees from NorthFootage to Dogleg						
LOCATION	Dogleg Name c) Length : <u>19'</u> Width : <u>/9'</u> Depth : <u>3'</u>						
ORIGINAL PIT LOC	WELLING OF THE PARTY OF THE PAR						
	Remarks:  STARTED TAKING PICTURES AT /:02 P.M. END DUMP						
S							
REMARKS							
SEM.							
H							
	Completed By:						
	Dal Champers						
	Signature Date						

GENER/	Meter: 89083 Location: Hubbul #13  Coordinates: Letter: D Section 17 Township: 29 Range: 10  Or Latitude Longitude  Date Started: 6-1-94 Area: 10 Run: 81
FIELD OBSERVATIONS	Sample Number(s): VW166  Sample Depth:12 Feet  Final PID Reading PID Reading Depth12 Feet  Yes No  Groundwater Encountered (1) \( \overline{\text{X}} \) (2) Approximate Depth Feet
CLOSURE	Remediation Method:  Excavation
REMARKS	Remarks: EPNG line Markers.  Signature of Specialist: Vale Wilson

(SP3191) 04/07/94



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

#### SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	νω 1 ίς ί <sub>ς</sub>	945323
MTR CODE   SITE NAME:	89083	N/A
SAMPLE DATE : TIME (Hrs):	10-1-94	1640
SAMPLED BY:		N/A
DATE OF TPH EXT. ANAL.:	6/10/94	610194
DATE OF BTEX EXT. ANAL.:	NA	NIA
TYPE : DESCRIPTION:		The Control of the Co

REMARKS: \* RERUN TPH

#### **RESULTS**

PARAMETER	RESULT UNITS	UNITS	QUALIFIERS			
			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)	410	MG/KG			2.03	28
HEADSPACE PID	Le	PPM				
PERCENT SOLIDS	95.4	%				

PERCENT SOLIDS	95.4	%			
	- TPH is by EPA Method	418.1 and BTEX is by EPA Me	rthod 8020 —		
The Surrogate Recovery was at	NIA	_% for this sample	All QA/QC was acc	ceptable.	
Varrative:					

**OF** = Dilution Factor Used

P. of

1.111.1/11



# FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

#### SAMPLE IDENTIFICATION

	SAMPLE	IDENTIFICA	ATION	·	<del></del>	
	Field	I ID		Lab ID		
SAMPLE NUMBER:	VWILLE		94	945323		
MTR CODE   SITE NAME:	५१०४३	89083		N/A		
SAMPLE DATE   TIME (Hrs):			1640 I/A			
SAMPLED BY:						
DATE OF TPH EXT.   ANAL.:	<u>6-3-</u>	14	(6/3)	•		
DATE OF BTEX EXT. ANAL.:	٨١٦	ハゴダ		NIA		
TYPE   DESCRIPTION:	УG	<del></del>	BROWN.	FINE 3	FAMI	]
REMARKS:						
		RESULTS			-	
PARAMETER	RESULT	UNITS		QUALIFIERS		
			DF	Q	M(g)	V(mi)
BENZENE		MG/KG				
TOLUENE		MG/KG				
ETHYL BENZENE		MG/KG				
TOTAL XYLENES		MG/KG		· "		
TOTAL BTEX		MG/KG		<del></del>		
TPH (418.1)	< 10	MG/KG			2.0	24
HEADSPACE PID	٥	PPM				
PERCENT SOLIDS	95.4	%				
	- TPH is by EPA Method 41	•				
he Surrogate Recovery was at arrative:	4 /	% for this samp			table.	
DF = Dilution Factor Used	<u> </u>	· .				
Approved By:			Date:			

---

ILLEGIBLE