THE REGAS INSPECTOR

JEO 3 6 1997

Meter Number:72116
Location Name:SUNRAY F#2
Location:TN-29 RG-10
SC-01 UL-H
2 - Federal
NMOCD Zone:OUTSIDE
Hazard Ranking Score:00

DEGEIVED N APR 1 4 1997

OIL CON. DIV. **Dist.** 3



## 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<sup>-9</sup> to 10<sup>-13</sup> cm/sec Shale 10<sup>-12</sup> to 10<sup>-16</sup> cm/sec Clay 10<sup>-12</sup> to 10<sup>-15</sup> 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.

### THE ASSESSMENT FORM

	Tra II		J
		PL	
	IJ Ł		
MISO	PIRL	Der	

	Meter: 72116 Location: SUNRAY F #2					
I	Operator #: 2999 Operator Name: MERIDIAN P/L District: BLOOMFIELD					
ERA	Coordinates: Letter: H Section 1 Township: 29 Range: 10					
GENERAI	Or Latitude Longitude					
Pit Type: Dehydrator Location Drip: X _ Line Drip: Other						
Site Visit Date: 4.15.94 Run: 10 83						
	NMOCD Zone: Inside Land Type: BLM State State Maps)  Zone Motside Motor Indian					
INT	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					
REMARKS	Remarks: ONLY DIT ON LOCATION. PIT IS DRY.					
EMA						
2						

	ORIGINAL PIT LOCATION
ATION	Original Pit: a) Degrees from North 335° Footage to Wellhead 165′ b) Degrees from North Footage to Dogleg Dogleg Name c) Length: 17′ Width: 17′ Depth: 3′
ORIGINAL PIT LOCATION	17' 11' 150- WELLHEAD 335°
REMARKS	Remarks:  STARTED TISKING PICTURES AT 9:17 A.M.  END DUMP
	Completed By:  10.1 Charries 4.15.94  Signature Date

Meter: 72/16 Location: SUNRAY F#2 Coordinates: Letter: H Section 1 Township: 29 Range: 10 GENER Latitude \_\_\_\_\_ Longitude \_\_\_\_\_ Date Started : 6-7-94 Area: 10 Run: 83 FIELD OBSERVATIONS Sample Number(s): MK 14 \_\_\_\_\_\_\_\_ Sample Depth: \_\_/o `\_\_\_ Feet Final PID Reading 23& PID Reading Depth 10 Feet Yes No Groundwater Encountered (1) (2) Approximate Depth \_\_\_\_\_ Feet Remediation Method: 」(1) Approx. Cubic Yards \_\_\_\_\_ Excavation Onsite Bioremediation Backfill Pit Without Excavation  $\boxed{X}$  (3) CLOSURE Soil Disposition: (3) Tierra □ (1) Envirotech Other Facility (2) Name: \_\_\_\_\_ Pit Closure Date: 6-7-94 Pit Closed By: B.E.T. Remarks: 5011 was Gray all the way Through Hit sandstance REMARKS at 10' FANG lives were marked Signature of Specialist: Morgan Xielian



# FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

### SAMPLE IDENTIFICATION

_	Field ID	Lab ID			
SAMPLE NUMBER:	MK14 945388				
MTR CODE   SITE NAME:	72116	N/A			
SAMPLE DATE   TIME (Hrs):	10-7- ax	0935			
SAMPLED BY:	N/A				
DATE OF TPH EXT.   ANAL.:	6/10/94	10/10/94			
ATE OF BTEX EXT.   ANAL.:	- N   K	12/4			
TYPE   DESCRIPTION:	V G	Gren Clay Sand			

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				
TPH (418.1)	34.7	MG/KG			2.02	28
HEADSPACE PID	232	PPM				
PERCENT SOLIDS	84.0	%				

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

he Surrogate Recovery was at	NA	% for this sample	All QA/QC was acceptable
arrative:	•		

F = Dilution Factor Used

VA P.M.

1.116/11X

#### \*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\* Test Method for Oil and Grease and Petroleum Hydrocarbons in Water and Soil

Perkin-Elmer Model 1600 FT-IR Analysis Report \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

74/06/10 11:57

Sample identification 745388

Initial mass of sample, g

Volume of sample after extraction, ml IS.000

Tetroleum hydrocarbons, ppm 14.707 Met absorbance of hydrocarbons (2730 cm-1) 1 007

