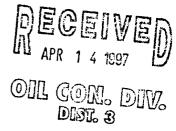
DEPUTY OIL & GAS INSPECTOR

DEC 2 9 1997

Approved

Meter Number:71995
Location Name:28-4 #7-12
Location:TN-28 RG-04
SC-12 UL-I
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.



FIELD PIT SITE ASSESSMENT FORM

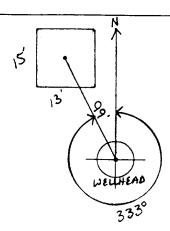
GENERAL	Meter: 71995 Location:		
SITE ASSESSMENT	NMOCD Zone: (From NMOCD Maps) Inside Outside Outside (2) Indian Depth to Groundwater Less Than 50 Feet (20 points) Greater Than 100 Ft (0 points) Wellhead Protection Area: Is it less than 1000 ft from wells, springs, or other sources of fresh water extraction?, or; ls it less than 200 ft from a private domestic water source? Horizontal Distance to Surface Water Body Less Than 1000 Ft (10 points) Careater Than 1000 Ft (20 points) Greater Than 200 Ft (20 points) Careater Than 200 Ft (20 points) Careater Than 1000 Ft (0 points) Careater Than 1000 Ft (10 poi		
REMARKS	Remarks: ONLY PIT ON LOCATION. PIT IS DRY, NO FENCE AROUND PIT. LOCATION IS IN CARSON NATIONAL FOREST. REDLINE SHOWS LOCATION IS INSIDE V.Z. BUT TOPO SHOWS THAT IT IS OUTSIDE V.Z. PUBLINE		

LOCATION
PIT
ORIGINAL

REMARKS

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 338 Footage from Wellhead 99' b) Length : /5' Width : /3 Depth : 2'



Remarks	:
---------	---

TOOK PICTURES AT 2:40 P.M. DUMP TRUCK - BOBTAIL

Completed By:

Signature

.5.31.94

Date

FIE PIT REMEDIATION/CLOSULE FORM

GENERAL	Meter: 7/995 Location: 28-4 [#] 7-12 Coordinates: Letter: T Section 12 Township: 28 Range: 4 Or Latitude Longitude Date Started: 7-8-94 Area: 10 Run: 62
FIELD OBSERVATIONS	Sample Number(s): MK 106 Sample Depth: 12 Feet Final PID Reading 576 PID Reading Depth 12 Feet Yes No Groundwater Encountered (1) (2) Approximate Depth Feet
CLOSURE	Remediation Method: Excavation
REMARKS	Remarks: <u>EPNG LINIS Marked</u> NO Pence ground Pit 50:1 Grayish brown Slight Hyprocarbon odor Signature of Specialist: <u>Morgan Killion</u>



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID	
SAMPLE NUMBER:	MK 106	945622	
MTR CODE SITE NAME:	71995	N/A	
SAMPLE DATE TIME (Hrs):	7-8-94	1228	
SAMPLED BY:	Y: N/A		
DATE OF TPH EXT. ANAL.:	7-12-94	7/12/94	
DATE OF BTEX EXT. ANAL.:	NIA	N /A	
TYPE DESCRIPTION:	VG	Park brown Sand & Chan	

REMARKS:		
		_

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)	1970	MG/KG			2.14	28
HEADSPACE PID	576	PPM				
PERCENT SOLIDS	67.5	%				

- TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020 -				
he Surrogate Recovery was at larrative:	% for this sample	All QA/QC was acceptable.		
	·····			

F = Dilution Factor Used

7/0/60

```
Test Method for
    Oil and Grease and Petroleum Hydrocarbons
               in Water and Soil
         Perkin-Elmer Model 1600 FT-IR
                Analysis Report
*************************************
34/07/12 09:30
 Samole identification
:45<u>6</u>22
 Hathial mass of sample, q
The one of sample efter extractions at
13 d 30
 fer, blowe hystecarbons, gon
 35 T . 25 6 4
 Away waxaa baaraa aa baada acaa aanaa 1970 samad
                          0000
                                                  1009
```