DEPUTY OIL & GAS INSPECTOR

DEC 3 0 1997

Meter Number:95289

ocation Name:FLORANCE #27A

Location:TN-29 RG-09

SC-26 UL-F 2 - Federal

NMOCD Zone:OUTSIDE Hazard Ranking Score:00 PEGETVER APR 1 4 1997 E OUL GOOD DAY. DISE S

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 EL PAS

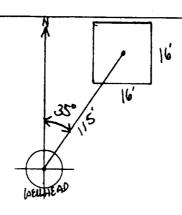


GENERAL	Meter: 95289 Location: _FLORANCE # 27 A Operator #: \(\text{D203} \) Operator Name: \(\text{Amoco} \) P/L District: \(\text{BLANCO} \) Coordinates: Letter: \(\text{F} \) Section \(\text{2le} \) Township: \(\text{29} \) Range: \(\text{9} \) Or \(\text{Latitude} \) Longitude \(\text{Line} \) Drip: \(\text{Line} \) Other: \(\text{Site Assessment Date: } \(\text{5.13.94} \) Area: \(\text{13} \) Run: \(\text{22} \)			
SITE ASSESSMENT	NMOCD Zone: (From NMOCD Maps) Inside Outside (2) Maps) 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? (1) YES (20 points) Horizontal Distance to Surface Water Body Less Than 200 Ft (20 points) (2) Greater Than 1000 Ft (10 points) (3) Horizontal Distance to Surface Water Body Less Than 200 Ft (10 points) (2) Greater Than 1000 Ft (10 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:			
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REMARKS	Remarks: Four Pits ON LOCATION-WILL CLOSE ONE, PIT IS DRY. LOCATION IS ON A HILL, REDLINE AND TOPO CONFIRMED LOCATION TO BE OUTSTOR			
EM	V.Z.			
<u> </u>				

ORIGINAL PIT LOCATION END DUMP REMARKS

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 35° Footage from Wellhead 115'



Remarks	:	

TOOK PICTURES AT 2:07 P.M.

Completed By:

Signature

5.13.94

Date

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 95289 Location: FloRance # 27 A Coordinates: Letter: F Section 26 Township: 29 Range: 9 Or Latitude Longitude Longitude Date Started: 7-18-94 Run: 13 12				
FIELD OBSERVATIONS	Sample Number(s): MK 152 Sample Depth: 8' Feet Final PID Reading 334 PID Reading Depth 8' Feet Yes No Groundwater Encountered \(\begin{array}{c c} \empty \emp				
CLOSURE	Remediation Method: Excavation				
REMARKS	Remarks: EPNG lines marked 50.1 Black Slight Hyprocarbon odor Hit Sund Stone 8'				
	Signature of Specialist: Mozgon X Teleion (SP3191) 03/16/94				



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID	
SAMPLE NUMBER:	MK 152	945706	
MTR CODE SITE NAME:	95289	N/A	
SAMPLE DATE TIME (Hrs):	7/19/94	1454	
SAMPLED BY:	N/A		
DATE OF TPH EXT. ANAL.:	7/19/94	7/19/94	
DATE OF BTEX EXT. ANAL.:	NA	NIA	
TYPE DESCRIPTION:		Brown Grey Chair Sand	
I THE I DESCRIPTION.	√ <i>(</i> -	3-3 - 1 - 7 - 7 - 7 - 7 - 7	

REMARKS:

RESULTS

PARAMETER	RESULT UNITS	UNITS	QUALIFIERS			
PARAMETEN			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)	4860	MG/KG			2.04	28
HEADSPACE PID	334	PPM				
PERCENT SOLIDS	90. 1990,	0 s/cu %				

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

The Surrogate Recovery was at	AIG	_% for this sample	All QA/QC was acceptable.
Varrative:			

> 8

8/8/94

