Denny & Futton & GAS INSPECT OF Cati

DEC 221997

Meter Number:70985 ρcation Name:SAN JUAN 32-9 UNIT #26

Location:TN-31 RG-10 SC-01 UL-L

2 - Federal NMOCD Zone:OUTSIDE

Hazard Ranking Score:00

DECEIVED N APR 1 4 1897

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 FORM

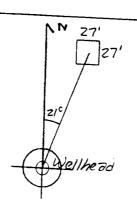
CENERAL	Meter: 70-985 Location: San Juan 32-9 Unit #26 Operator #: 2999 Operator Name: Meridian P/L District: Azto C Coordinates: Letter: Section Township: 31 Range: 10 Or Latitude Longitude Pit Type: Dehydrator Location Drip: Line Drip: X Other: Site Assessment Date:9/6/94 Area: Run: 53					
SITE ASSESSMENT	NMOCD Zone: (From NMOCD Maps) Inside Outside (2) Depth to Groundwater Less Than 50 Feet (20 points) Greater Than 100 Ft (0 points) It less than 200 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) (3) Horizontal Distance to Surface Water Body Less Than 200 Ft (20 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:					
REMARKS	Remarks: Redline Book-Outside Vulnerable Zone Topo-Outside Four pits, line and driphis dry. Will close one pit. PUS H TM					

REMARKS

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North $2/^{\circ}$ Footage from Wellhead $162/^{\circ}$

b) Length: 27' Width: 27' Depth: 51



Remarks:

Pictures @ 1515 /48, Roll]

line drip pit with

Completed By:

Signature

Date

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL 🔭	Meter: 70985 Location: SANJUAH 32-9 UNIT # 26 Coordinates: Letter: L Section L Township: 31 Range: 10 Or Latitude Longitude Longitude Date Started: 10-3-94 Run: 04 53
FIELD OBSERVATIONS	Sample Number(s): 16 276 Sample Depth: 4' Feet Final PID Reading 148 Yes No Groundwater Encountered Approximate Depth Feet
CLOSURE	Remediation Method: Excavation
REMARKS	Remarks: No Line markers. HIL SAND STONE At 4' Signature of Specialist: Kelly Pollila. (SP3181) 03/16/84



FIELD SERVICES LABORATORY

ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Outside the GWV Zone

SAMPLE IDENTIFICATION

_	Field	ID		Lab ID							
SAMPLE NUMBER:	W7 271	47 276 946 298		298							
MTR CODE SITE NAME:	70985		N/A								
SAMPLE DATE TIME (Hrs):	10 - 3 -	1	0905								
SAMPLED BY:	N/A										
DATE OF TPH EXT. ANAL.:	10-6-94										
DATE OF BTEX EXT. ANAL.:	NIA	NIA		NIN							
TYPE DESCRIPTION:	∨ 6		Brown sand & clay								
REMARKS:											
RESULTS											
							1				
PARAMETER	RESULT	UNITS	QUALIFIERS								
FANAMETEN			DF	Q	M(g)	V(ml)					
TPH (418.1)	106	MG/KG			2.07	28					

-- TPH is by EPA Method 418.1 --

PPM

Varrative:	

148

85.7

OF = Dilution Factor Used

HEADSPACE PID

PERCENT SOLIDS

Approved By:

Date: 1913/9/

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

> Perkin-Elmer Model 1600 FT-IR Analysis Report

24/10/06 11:21

Sample identification 746298

Initial mass of sample, o

Volume of sample after extraction. Al 3.000

Petroleum in drocentons, dom 05.851 Wet absorbance of tydrocerbons (2910 cm-1)

