DEPUTY OIL & GAS INSPECTOR

DEC 3 0 1997

Meter Number:72579
ocation Name:SAN JUAN 29-5 #31-29
Location:TN-29 RG-05
SC-29 UL-H

2 - Federal NMOCD Zone:OUTSIDE Hazard Ranking Score:00 DEGEIVED N APR 1 4 1997

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.

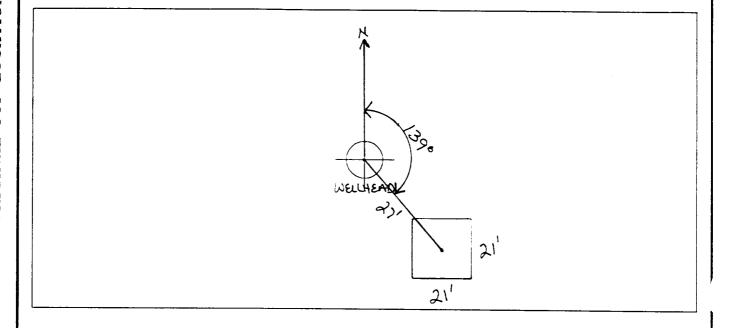


FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: 72579 Location: SAN JUAN 29-5 #31-29 Operator #: Operator Name: Philure P/L District: BloomFIELD Coordinates: Letter: H Section 29 Township: 29 Range: 5 Or Latitude Longitude Pit Type: Dehydrator × Location Drip: Line Drip: Other: Site Assessment Date: 2.24.95 Area: LO Run: 61							
SITE ASSESSMENT	NMOCD Zone: Land Type: BLM							
	Depth to Groundwater Less Than 50 Feet (20 points) □ (1) 50 Ft to 99 Ft (10 points) □ (2) Greater Than 100 Ft (0 points) □ (3)							
	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) (2) NO (0 points)							
	Horizontal Distance to Surface Water Body Less Than 200 Ft (20 points) (1) 200 Ft to 1000 Ft (10 points) (2) Greater Than 1000 Ft (0 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: POINTS							
- <u>-</u>	Remarks: REPURE : TOPO SHOW LOCATION OUTSIDE V.Z. ONLY PIT							
EMARK	ON LOCATION. BELONGS TO EPNG. WILL CLOSE PIT.							
뎚	DICTIII							

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 139° Footage from Wellhead 27'



Remarks:	
PHOTOS-1309	
	····

Completed By:

Signature

2.24.95

Date

FIE: PIT REMEDIATION/CLOS' 'E FORM

GENERAL	Meter: 725 79 Location: SAN TVON 29-5 * 31-29 Coordinates: Letter: M Section 29 Township: 25 Range: 5 Or Latitude Longitude Longitude Date Started: 7-25-95 Run: 10 6/
FIELD OBSERVATIONS	Sample Number(s): MK448 Sample Depth: Feet Final PID Reading PPM PID Reading Depth Feet Yes No Groundwater Encountered
CLOSURE	Remediation Method: Excavation Onsite Bioremediation Backfill Pit Without Excavation Soil Disposition: Envirotech Other Facility Name: Pit Closure Date: 1-45-95- Pit Closed By: Pitte
REMARKS	Remarks: Arrived Took Fence down Dug sample Hole Soil In Pit USS Gray with Strong Hi Arocarbon odo- 24 the was Through put Fence back up ground tonk
	Signature of Specialist: Morgo Zielion (5P3191) 03/16/9



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Outside the GWV Zone

	SAMPLE	IDENTIFICA	TION			
	Field	ID		Lab ID		
SAMPLE NUMBER:	MK 448 72579 07-25-95		941010 N/A 09:15			
MTR CODE SITE NAME:						
SAMPLE DATE TIME (Hrs):						
SAMPLED BY:	N/A					
DATE OF TPH EXT. ANAL.:	7-26-95		7-24-95			
DATE OF BTEX EXT. ANAL.:						
TYPE DESCRIPTION:	V6		light grey sand & clay			
REMARKS:		RESULTS				
PARAMETER	RESULT	UNITS	DF	QUALIFIERS DF Q M(g) V(m		
TPH (418.1)	3940	MG/KG			2.12	28
HEADSPACE PID	210	PPM				
PERCENT SOLIDS	82.9	%				
		TPH is by EPA Meth	nod 418.1			
Varrative:						
DF = Dilution Factor Used						
Approved By:			Date:	13/45	_	

Test Method for Dil and Grease and Petroleum Hydrocarbons in Water and Soil Perkin-Elmer Model 1600 FT-IR 95/07/26 13:44 Sample identification 94707Ö Initial mass of sample, g Volume of sample after extraction, ol 13.000 Retroleum hydrocarbons, ppm 194**5.**729 Net absorbance of hydrocaroons (2930 cm-1) . C.1.6

