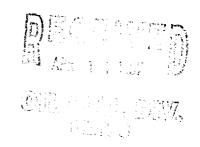
Harrisel

Meter Number:93150
Location Name:HUGHES A6
Location:TN-29 RG-08
SC-33 UL-L
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

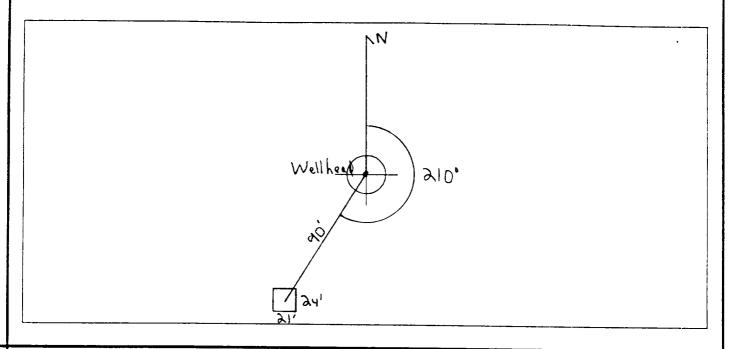


GENERAL	Meter: \$\frac{93150}{250}\$ Location: \(\frac{\text{HVGHES}}{\text{Abco}} \) Ab Operator \(\frac{\text{Blanco}}{200} \) Operator Name: \(\frac{\text{AMocd}}{\text{P/L}} \) District: \(\frac{\text{Blanco}}{200} \) Coordinates: \(\text{Letter: } \frac{\text{Lection } \frac{33}{200} \) Township: \(\frac{\text{Ange: } \frac{\text{B}}{200} \) Or \(\text{Latitude } \) Location \(\text{Drip: } \) Line \(\text{Drip: } \) Other: \(\text{Site Assessment Date: } \frac{5/\text{A3}/\text{94}}{24} \) Area: \(\frac{13}{200} \) Run: \(\frac{13}{200} \)					
SITE ASSESSMENT	NMOCD Zone: (From NMOCD Naps) Inside Outside Outside (I) Fee (3) Outside Indian Depth to Groundwater Less Than 50 Feet (20 points) Greater Than 100 Ft (0 points) 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? Horizontal Distance to Surface Water Body Less Than 1000 Ft (10 points) (2) Greater Than 100 Ft (20 points) (2) Greater Than 200 Ft (20 points) (3) Name of Surface Water Body (Surface Water Body					
REMARKS	Remarks: Redline-Inside, Vuln-Ourside Spits-Close Pit Dry					
REM	PUSH-IN					

O	RI	GIN	AL	Ρľ	Т	r.o	CI	TT	n	N	J
v	TAT	CITI A		7 T	1 .	LV	UE	7 T T	U	Ľ	ŧ

Original Pit : a) Degrees from North <u>Alor</u> Footage from Wellhead <u>90</u>

b) Length : <u>24'</u> Width : <u>21'</u> Depth : <u>41</u>



	Remarks: Pictures 1027 (9-13) Dump Truck
REMARKS	
RE	

Completed By:

Signature

 $\frac{5}{23} \frac{99}{9}$ Date

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 93150 Location: HUGHes A6 Coordinates: Letter: L Section 33 Township: 19 Range: 8 Or Latitude Longitude Longitude Date Started: 7-18-94 Run: 13 61						
FIELD OBSERVATIONS	Sample Number(s): AK 193 Sample Depth: AK 193 Feet Final PID Reading 269 Yes No Groundwater Encountered Approximate Depth Feet						
CLOSURE	Remediation Method: Excavation						
REMARKS	Remarks: FINGlines Marked Soil Brown Strong Hyprocyrben						
	Signature of Specialist: Morga Xillion (SP3191) 03/16/94						



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	SAMPLE	IDENTIFICA	TION				
	Field	I ID		Lab ID			
SAMPLE NUMBER:	mx 19	3	94	945787			
MTR CODE SITE NAME:	9319			N/A			
SAMPLE DATE TIME (Hrs):	7-28-9	7-28-92		1054			
SAMPLED BY:		<u> </u>	I/A				
DATE OF TPH EXT. ANAL.:	£.2	-94	8/21				
DATE OF BTEX EXT. ANAL.:	NIA			NIA			
TYPE DESCRIPTION:	V (G	Brun Gre	Braun Grey Clay Sand			
REMARKS:				3			
HEMAINO.							
		RESULTS					
							
PARAMETER	RESULT	UNITS	QUALIFIERS			1	
			DF	<u> </u>	M(g)	V(mi	
BENZENE		MG/KG		<u> </u>			
TOLUENE		MG/KG					
ETHYL BENZENE		MG/KG					
TOTAL XYLENES		MG/KG					
TOTAL BTEX		MG/KG				<u> </u>	
TPH (418.1)	514	MG/KG			2.02	28	
HEADSPACE PID	269	PPM					
PERCENT SOLIDS	90.5	%					
	- TPH is by EPA Method 4						
e Surrogate Recovery was at rrative:	NA	_% for this samp	ile All QA/QC	C was accep	table.		
= Dilution Factor Used				a//	,		

74/08/02 13:09

Sample identification 545787

initial ness of sample, 3 .020

Tolume of Lasple after extraction, mi 18.000

Principus bydrocarbors, ppm 77.675

Wet absorbance of hydrocarbons (2930 cm th



