EEC 2 9 1997

Meter Number:94420
Location Name:BOLACK E 1
Location:TN-28 RG-08
SC-33 UL-L
2 - Federal
NMOCD Zone:OUTSIDE
Hazard Ranking Score:00

PECEIVED APR 1 4 1997

OIL GON. DIV. DIST. 8

Approved

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: 94420 Location: Black El Operator #: 0203 Operator Name: Amrco P/L District: Blanco Coordinates: Letter: L Section 33 Township: 28 Range: 8 Or Latitude Longitude Pit Type: Dehydrator Location Drip: Line Drip: Other: Site Assessment Date: 5/17/94 Area: 03 Run: 92		
SITE ASSESSMENT	NMOCD Zone: (From NMOCD (From NMOCD Maps) Inside Outside Outside (2) Indian Depth to Groundwater Less Than 50 Feet (20 points) Grecter 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) Cy Grecter Than 1000 Ft (10 points) (2) Grecter 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		
RKS	Remarks: Redine + Vuln - Ourside. 3 pits. Will close 1. 10- Pit Dry		
REMARKS	Near Fresno & Largo Canyons PUSH-IN		

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 94420 Location: Bolack & #1 Coordinates: Letter: \(\lambda \) Section \(\frac{33}{33} \) Township: \(\frac{28}{28} \) Range: \(\frac{8}{33} \) Or Latitude \(\llocation \) Longitude \(\llocation \) Date Started: \(\frac{8-10-94}{2} \) Run: \(\frac{33}{2} \)
FIELD OBSERVATIONS	Sample Number(s): MK150 Sample Depth: Feet Final PID Reading 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: Pit Closed By: ### Pit Closed By: ###################################
REMARKS	Remarks: EPNG lines NOT Marked Soil brown Strong HYDOG Carbon also Hit Saw Stone 5
	Signature of Specialist: Morgan XI elian (SP3191) 03/16/94



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Outside the GWV Zone

	Lab ID 5 8 9 4 N/A			Field	
	N/A	१५5			
	N/A		mk 250		SAMPLE NUMBER:
	8			MTR CODE SITE NAME:	
		1248		8-10-6	SAMPLE DATE TIME (Hrs):
		Α	N/A		SAMPLED BY:
	8-11-94		1	8-11-90	DATE OF TPH EXT. ANAL.:
E .	NIA			NIA	DATE OF BTEX EXT. ANAL.:
1	wn Sand	light tron		V 6	TYPE DESCRIPTION:
					REMARKS:
					NEISIAMO.
			RESULTS	F	
QUALIFIERS		LINETO			
V(ml)		DF	UNITS	RESULT	PARAMETER
78	2,2		MG/KG	1500	TPH (418.1)
			PPM	275	HEADSPACE PID
			%	89,2	PERCENT SOLIDS
		1418.1	TPH is by EPA Method		
		······································			arrative:
					F = Dilution Factor Used
		1 418.1	%	89,2	HEADSPACE PID PERCENT SOLIDS Parrative: DF = Dilution Factor Used

Approved By: