Denny S. Fourt DEPUTY OIL & GAS INSPECTOR

DEC 2 2 1997

Meter Number:71420

Location Name: N.E. BLANCO UNIT #36-1

Location: TN-30 RG-08

SC-01 UL-A 2 - Federal

NMOCD Zone:OUTSIDE

Hazard Ranking Score:00

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OIL CON. 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: 71420 Location: N.E. BLANCO UNIT #36-1 Operator #: 0735 Operator Name: BLANCO UNIT #36-1 Coordinates: Letter: A Section Township: 30 Range: 8 Or Latitude Longitude Pit Type: Dehydrator X Location Drip: Line Drip: Other: Site Assessment Date: 5.6.94 Area: 10 Run: 63				
	NMOCD Zone: Land Type: BLM ☒ (1) (From NMOCD State ☐ (2)				
ASSESSMENT	Maps) Inside (1) Fee (3) Outside (2) Indian				
	Depth to GroundwaterLess 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)				
SITE ASS	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				
REMARKS	Remarks: ONLY PIT ON LOCATION. PIT IS DRY LOCATION IS ON A MESA ABOVE NAVATO LAKE. REDLINE AND TOPO CONFIRMED LOCATION TO BE OUTSIDE THE V.Z.				
RE	PUSH IN				

ORIGINAL PIT LOCATION	ORIGINAL PIT LOCATION Original Pit: a) Degrees from North 13° Footage from Wellhead 77′ b) Length: 20′ Width: 20′ Depth: 3′
	WELLHEAD 20'
REMARKS	Remarks: NOK PICTURES AT 12:53 P.M.
	END DUMP
	Completed By:
	Signature Date

FIEL PIT REMEDIATION/CLOSU : FORM

GENERAL	Meter: 71420 Location: N.E. Blanco Unit # 36-1 Coordinates: Letter: A Section I Township: 30 Range: 8 Or Latitude Longitude Date Started: 6-3-94 Area: 10 Run: 63
FIELD OBSERVATIONS	Sample Number(s): $\frac{12'}{12'}$ Feet Sample Depth: $\frac{12'}{12'}$ Feet Final PID Reading $\frac{389}{12'}$ PID Reading Depth $\frac{12'}{12'}$ Feet Yes No Groundwater Encountered \square (1) \square (2) Approximate Depth \square Feet
CLOSURE	Remediation Method: Excavation
REMARKS	Remarks: I've markers on site
1	Signature of Specialist: Vale Wilson



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field	ID		Lab ID			
SAMPLE NUMBER:	۷۲۱ س۷		945	945355			
MTR CODE SITE NAME:	71420		N/A /○ 05				
SAMPLE DATE TIME (Hrs):							
SAMPLED BY:	N/A					į	
DATE OF TPH EXT. ANAL.:	6-6-94 NG		6694 1010				
DATE OF BTEX EXT. ANAL.:							
TYPE DESCRIPTION:			Brou				
REMARKS:			······			<u>.</u>	
	F	RESULTS		· · · · · · · · · · · · · · · · · · ·			
PARAMETER	RESULT	UNITS		QUALIFIERS			
			DF	α	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)	1260	MG/KG			1.99	28	
HEADSPACE PID	389	PPM					
PERCENT SOLIDS	90,4	%	·			<u></u> -	
he Surrogate Recovery was at arrative:	- TPH is by EPA Method 41	8.1 and BTEX is by EPA % for this sampl		was accer	otable.		
F = Dilution Factor Used	Pard =		Date:	-6 /16h	GY		

