DEC 2 9 1997

Meter Number:72411 Location Name: San Juan 28 - 7 Unit #95 PC

Location: TN-27 RG-07 SC-04 UL-M

2 - Federal

MOCD Zone:OUTSIDE Hazard Ranking Score:00

OIL COM. DI

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:

10⁻⁹ to 10⁻¹³ cm/sec Sandstone 10⁻¹² to 10⁻¹⁶ cm/sec Shale 10⁻¹² to 10⁻¹⁵ cm/sec Clav

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: 7241 Location: San Jul 28-7 Unit #95 P(Operator #: D2D3 Operator Name: Ange P/L District: Blance Coordinates: Letter: M Section 4 Township: 27 Range: 7 Or Latitude Location Drip: Line Drip: Other: Site Assessment Date: 5/3/95 Area: D3 Run: 53					
	NMOCD Zone: (From NMOCD Maps) Inside Outside Land Type: BLM State (2) Fee (3) 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)					
ASSESSMENT	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					
KS KS	Remarks: Redline Book: Outside Vunerable Zone Topo: Outside					
REMARKS	32 pits. Closel Pit Drughas small amount of water in 17					
RE	PUSH= 1)					

FIL D PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 72411 Location: $San Twen 28-7 Unit #95 PC$ Coordinates: Letter: M Section 4 Township: 27 Range: 7 Or Latitude Longitude Date Started: $6/5/95$ Run: 03 52
FIELD OBSERVATIONS	Sample Number(s): KD 454 Sample Depth: 6' Feet Final PID Reading 205 ppm PID Reading Depth 6 Feet Yes No Groundwater Encountered Approximate Depth Feet
CLOSURE	Remediation Metroa : Excavation
	Soil Disposition: Envirotech Other Facility Name: Pit Closure Date: 6/5/95 Tierra Other Facility Name: Tierra Other Facility Name: Tierra
REMARKS	Remarks: Dug test Hole to 6', Hit Soundstore, Took Did Sample and Closed pit.
	Signature of Specialist: (SP3191) 03/16/94



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Outside the GWV Zone

	SAMPLE	IDENTIFIC	ATION			
Field ID				Lab ID		_
SAMPLE NUMBER:	KD	H54	94	946874 N/A		
MTR CODE SITE NAME:	72411					
SAMPLE DATE TIME (Hrs):	5 - 5 -	a <u>5</u>	744 C		جير جيزيدات اگا گاگا است	
SAMPLED BY:			N/A			
DATE OF TPH EXT. ANAL.:				· · · · · · · · · · · · · · · · · · ·		
DATE OF BTEX EXT. ANAL.:						
TYPE DESCRIPTION:	<u> </u>	<u> </u>		rate oney sand + chang		
REMARKS:						
neivianno:						
		RESULTS				
PARAMETER	RESULT	UNITS	QUALIFIERS			
			DIF	Q	M(g)	V(ml)
TPH (418.1)	23400	MG/KG		-	0.29	<u>२</u> 8
HEADSPACE PID	205	PPM				
PERCENT SOLIDS	90.7	%				
		TPH is by EPA Metn	od 418.1			
arrative:						
arrative.						

Test Method for Oil and Grease and Petroleum Hydrocarbons in Water and Soil Perkin-Elmer Model 1600 FT-IR Analysis Report 15/06:01 14:5T Tampio Lienticicaciin MASTA Control of the control of the control of -V), then the constant that the constant $\sigma_{\rm tot}$, with the constant $\sigma_{\rm tot}$ The Salar Commission of Commission

The first section of the control of the property of the proper

100