DEPUTY OIL & GAS INTERSOFTON

DEC 2 9 1997

Meter Number: 71095
Location Name: Huerfanito Unit #10
Location: TN-27 RG-09

SC-36 UL-A

1- State

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 Guicelines 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 heal h and therefore El Paso Field Services Company (EPFS) requests closure of this pit location.



FIELD PIT SITE ASSESSMENT FORM

CENERAL	Meter: 71095 Location: Huerfanito unit 10 Operator #: Operator Name: EPNG P/L District: Bakkar& Coordinates: Letter: A Section 36 Township: 27 Range: 09 Or Latitude Longitude Pit Type: Dehydrator Location Drip: Other: Site Assessment Date: 7-17-95 Area: Rin: 7/							
	NMOCD Zone: Land Type: BLM □ (1) (From NMOCD State ☒ (2) Maps) nside □ (1) Fee □ (3) Outside ☒ (2) Indian □ (1)							
SITE ASSESSMENT	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 ess 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? \square (1) YES (20 points) \square (2) NO (0 points)							
	Horizontal Distance to Surface Water Body Less Than 200 Ft (20 points)							
	(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: O POINTS							
MARKS	Remarks: Ped Line Shows inside Topo shows outside VZ Pit-Location Drip be Longs to EPNG WiLL cLose Pit							

ORIGINAL PIT LOCATION Original Pit: a) Degrees from North 295° Footage from Wellhead 104' b) Length: 17' Width: 16' Depth: 4' 17'

p.1010'S:	1504	4 pict	 	

Completed By:

Signature

Date

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 71095 Location: HuerFanito Unit 10 Coordinates: Letter: 1 Section 36 Township: 27 Range: 09 Or Latitude Longitude Longitude Date Started: 7-31-55 Run: 11 71
FIELD OBSERVATIONS	Sample Number(s): MK457 Scmple Depth: /2' Feet Final PID Reading Depth /2' Feet Yes No Groundwater Encountered \(\begin{align*} \bar{X} \end{align*} \) Approximate Depth \(
CLOSURE	Remediation Method: Excavation Onsite Bioremediation Backfill Pit Without Excavation Soil Disposition: Envirotech Other Facility Name: Pit Closure Date: 7-31-95 Pit Closed By: Pkille
REMARKS	Remarks: Amus Dug genfle Hole fit affected to be clean all the way Down Signature of Specialist: Margan Killian (SP3191) 03/16/94



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Outside the GWV Zone

	SAMPLE	IDENTIFICA	-			
	Field			Lab ID		
SAMPLE NUMBER:	SAMPLE NUMBER: MK 457			947114		
MITR CODE SITE NAME:	71095		N/A			
SAMPLE DATE TIME (Hrs):	7/31/95		14:25 NA 8-1-95			
SAMPLED BY:						
DATE OF TPH EXT. ANAL.:	8-1	-95	8-7-	772		
DATE OF BTEX EXT. ANAL.: TYPE DESCRIPTION:	V6		Fine Brown	m Sand	+ Uzy	
REMARKS:						
		RESULTS				
PARAMETER	RESULT	UNITS	DF T	QUALIFI		/(ml)
TPH (418.1)	45.2	MG/KG				26
HEADSPACE PID	27	PPM				
PERCENT SOLIDS	93.8	%				
		TPH is by EPA Metho	od 418.1 ··			
Narrative:				····		··
DF = Dilution Factor Used						
Approved By:	Dalel		Date:	9-1	12-95	_

95/08/01 13:35

Sample identification 0470114

Initial mass of sample, g

Yolume of sample after extraction, \mathfrak{m}^{1}

Petroleum hydrocarbons, ppm -5.24% Net absorbance of hydrocarbons (1930 cm-1) 7.016

LLEGIBLE

