DEPUTY OIL & GAS INSI

DEC 22 1997

Meter Number: 70189 ocation Name: JOHNSTON FEDERAL #2 Location: TN-31 RG-09 SC-33 UL-K 2 - Federal NMOCD Zone: OUTSIDE

RATIONALE ED R RISK-BASED CLOSURE OF PRODUCTION PITS LOCATED OUTSIDE OF THE VULNERABLE ZONE IN THE SAN JUAN BASIN

Hazard Ranking Score:00

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 Clay

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.

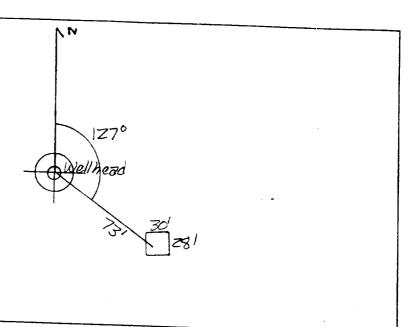


FIELD PIT SITE ASSESSMENT FORM

Meter: 70-189 Location: Johnston Fedical Operator #: OLZ Operator Name: MeridianP/L District: Accordinates: Letter: K Section 33 Township: 31 Range: 9 Or Latitude Longitude Pit Type: Dehydrator Location Drip: Line Drip: Other: Site Assessment Date: \$\frac{1}{30}\frac{1}{94}\] Area: \$\frac{0}{4}\] Run: 4// NMOCD Zone: (From NMOCD Land Type: BLM (1) Maps) Inside (1) State (2) Outside (2) Indian 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 less than 1000 ft from wells, springs, or other sources of fresh water exaction?, or; Is it less than 200 ft	
NMOCD Zone: (From NMOCD Maps) Inside Outside Depth to Groundwater Less Than 50 Feet (20 points) For Fit to 99 Ft (10 points) Greater Than 100 Ft (0 points) Walls 1 7	
Second Protection Area :	nts)
MIDARD RANKING SCORE.	
Remarks: Redline Book - Outside Vulnerable Zone Tape - Outside Two pits, location drip pit is dry, will close one pit.	
DIZII TI	

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 127° Footage from Wellhead 73' b) Length : 30' Width : 28' Depth : 5'



Remarks:
Pictures @ 1345, (9-12, Roll 3)

Completed By:

Sauch Ildly

Date

FIEL PIT REMEDIATION/CLOSULE FORM

GENERAL	Meter: 70189 Location: Johnston Federal *2 Coordinates: Letter: K Section 33 Township: 31 Range: 9 Or Latitude Longitude Date Started: 10.3-94 Run: 04 41								
FIELD OBSERVATIONS	Sample Number(s): KP 279 Sample Depth: 8' Feet Final PID Reading 203 PID Reading Depth 8' Feet Yes No Groundwater Encountered \(\begin{array}{c c} \end{array} & Approximate Depth \(\begin{array}{c c} \begin{array}{c								
CLOSURE	Remediation Method: Excavation Onsite Bioremediation Backfill Pit Without Excavation Soil Disposition: Envirotech Other Facility Name: Pit Closure Date: 10-3-94 Pit Closed By: B.E.T.								
REMARKS	Remarks: No Line markers. Hit SAND Stone At 81 Soil Light gray with A Smell Signature of Specialist: Kelly Padella								

(SP3191) 03/16/94



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Outside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID		Lab ID			
SAMPLE NUMBER:	YP 27	946301				
MTR CODE SITE NAME:	70189		N/A			
SAMPLE DATE TIME (Hrs):	10-3-94		1245			
SAMPLED BY:		I/A				
DATE OF TPH EXT. ANAL.:	10-6-94					
DATE OF BTEX EXT. ANAL.:	RIA		NIA			
TYPE DESCRIPTION:	V6		Moun S	ot Lne	3/94	
REMARKS:						
		RESULTS				
			<u> </u>			1
PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	<u> </u>	M(g)	V(mi)
TPH (418.1)	2570	MG/KG			2.15:	28
HEADSPACE PID	203	PPM				
PERCENT SOLIDS	92.0	%				
		TPH is by EPA Meth	od 418.1			
arrative:						
F = Dilution Factor Used						
pproved By:			Date:	V,3/4X	, 	

Test Method for Oil and Grease and Petroleum Hydrocarbons in Water and Soil

> Ferkin-Elmer Model 1600 FT-IR Analysis Report

94/10/05 11:27

Sample identification 746301

Initial mass of Lamble, q D.130

Volume of sample after extraction, ti DE.000

Petroleum hydrocznoonsu com 1571.271 Mot absorbance of bydrocz cont 12710 stell 1.747

