DEPUTY OIL & GAS INSPECTION

DEC 2 9 1997

Meter Number:73784
Location Name:JACK FROST B #1
Location:TN-27 RG-10
SC-27 UL-P
2 - Federal
NMOCD Zone:OUTSIDE
Hazard Ranking Score:00

DECEIVED

APR 1 4 1997

OUL COMP. DOWN

011. GON. DIV. Dist. 3

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: 73-784 Location: Jack Frost B Well No. Operator #: OZO3 Operator Name: Meridian P/L District: Angel Peak Coordinates: Letter: P Section Z7 Township: Z7 Range: 10 Or Latitude Longitude Pit Type: Dehydrator Location Drip: X Line Drip: Other: Site Assessment Date: 9/14/94 Area: OL Run: 42							
SITE ASSESSMENT	NMOCD Zone: (From NMOCD Maps) Inside Outside (2) Depth to Groundwater Less Than 50 Feet (20 points) Greater 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? Horizontal Distance to Surface Water Body Less Than 200 Ft (20 points) Greater Than 1000 Ft (0 points) Greater Than 1000 Ft (10 points) (3) Horizontal Distance to Surface Water Body Less Than 200 Ft (20 points) (3) Name of Surface Water Body Exet Fock Kurz Canyon (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:							
REMARKS	Remarks: Realine Book - Outside Vulnuchle Zone Topo - Outside Three pits, location drip pit is dry. Will close one pit							
<u> </u>	PIKH TN							

FLLD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 73784 Location: <u>Jack Frost B well #1</u> Coordinates: Letter: <u>P</u> Section <u>27</u> Township: <u>27</u> Range: <u>10</u> Or Latitude Longitude
6	Date Started : 10/7/94 Run: 01 42
FIELD OBSERVATIONS	Sample Number(s): KD 325 Sample Depth: Z Feet Final PID Reading PID Reading Depth Z Feet Yes No Groundwater Encountered Approximate Depth Feet
CLOSURE	Remediation Method: Excavation
	Other Facility Name: Pit Closure Date: 10/7/94 Pit Closed By: BET
REMARKS	Remarks: Excavated Test Hole to 2', Took Did Sample,
	Signature of Specialist:
	(SP3191) 03/16/94



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Outside the GWV Zone

	SAMPLE	IDENTIFICA	TION			
	Field ID		Lab ID			
SAMPLE NUMBER:	KD 325		946366			
MTR CODE SITE NAME:	ITE NAME: 19184 1045 73784			N/A		
SAMPLE DATE TIME (Hrs):	10-7-9	10-7-91		1046		
SAMPLED BY:	N/A					
DATE OF TPH EXT. ANAL.:	10-13-94 NIA				_	
DATE OF BTEX EXT. ANAL.:			NIA			
TYPE DESCRIPTION:	V 6		Light brown course sand			
REMARKS:		RESULTS				-
PARAMETER	RESULT	UNITS		QUALIFIERS		
		9424	DF	<u> </u>	M(g)	V(ml)
TPH (418.1)	1123tt 946	MG/KG			1.99	28
HEADSPACE PID	729	ادران) ⁴⁴ PPM				
PERCENT SOLIDS	92.7	%				
		TPH is by EPA Metho	oa 418.1 ··			
arrative:		_				
F = Dilution Factor Used						

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

ILLEGIBLE

34/10/13 11:35

Sample identification 746366

Initial mass of sample, q ...990

Volume of sample after extraction, ml = 18.000

Petroleum hydrocarbons, ppm 943,300

Wet absorbance of hydrocarbons (29T2 $\pm n-1$) .124

