Denny S. Fout

DEC 3 0 1997

2

Meter Number:LD238
Location Name:Lat. GCU 210 Well Line
Location:TN-29 RG-12

SC-31 UL-L

4 - Fee

NMOCD Zone:OUTSIDE Hazard Ranking Score:00 REGEIVED AFR 1 4 1997

OIL COR. 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

LD238

GENERAL	Meter: N/A Location: LAT GCU 210 WELL LINE Operator #: Operator Name: FPUG P/L District: ANGEL PEAK Coordinates: Letter: Section 31 Township: 29 Range: 12 Or Latitude Longitude Pit Type: Dehydrator Location Drip: Line Drip: X Other: Site Assessment Date: 10/21/94 Area: 01 Run: 41						
	NMOCD Zone: (From NMOCD Maps) Inside Outside Outside Depth to Groundwater Less Than 50 Feet (20 points) Greater Than 100 Ft (0 points) 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 1000 Ft (10 points) Horizontal Distance to Surface Water Body Less Than 200 Ft (20 points) Greater Than 1000 Ft (0 points) (2) Greater Than 1000 Ft (10 points) (3) Name of Surface Water Body (Surface Water Body: Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)						
ı	Distance to Nearest Ephemeral Stream (1) < 100'(Navajo Pits Only) (2) > 100' TOTAL HAZARD RANKING SCORE: POINTS						
\neg	Remarks :						

Original Pit : a) D b) L	ORIGINAL PIT LOCA Degrees from North <u>3/0</u> Length : <u> </u> Width : _	MILEAGC Footage from Wellhead <u>O.Z</u>	<u></u>
	DELL M.	EAD GCU 210	
Remarks :			
		·	
Completed By: Sign	nature	<u>10/21/9</u> 4 Date	

FIELD PIT REMEDIATION/CLOSURE FORM

T. CHINELO	Meter: Coordinat	N/A Location: Let GCU 210 well Line es: Letter: Letter: Section 31 Township: 29 Range: 12 Latitude Longitude Run: 01 61
FIELD OBSERVATIONS	Sample D Final PID	lumber(s): 10.362 epth: 9' Feet Reading 1ppm PID Reading Depth 9' Feet Yes No ter Encountered Approximate Depth Feet
CLOSURE	Exca Onsit Back Soil Dispos Envir	otech
REMARKS	Remarks Shuple,	: Doylest Hole to 9', Hit Sandstone Layer, 700K DiD
	Signature o	of Specialist:

(SP3191) 03/16/94



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Outside the GWV Zone

SAMPLE IDENTIFICATION

	SAIMI LE	DEITHIOA									
	Field	LD 23	8	Lab ID							
SAMPLE NUMBER:	KD 31	e 2	944	,476							
MTR CODE SITE NAME:				N/A							
SAMPLE DATE TIME (Hrs):	11-7-94	1035									
SAMPLED BY:		Α									
DATE OF TPH EXT. ANAL.:	11-10-	<u>-94</u>	11-10-94								
DATE OF BTEX EXT. ANAL.:	PIA		NIA								
TYPE DESCRIPTION:	76		Brown-	ne S	ind						
RESULTS											
PARAMETER	RESULT	UNITS	DF	QUALIFI Q	IERS M(g)	V(ml)					
TPH (418.1)	229	MG/KG			2.38	28					
HEADSPACE PID		PPM									
PERCENT SOLIDS	97.6 COX	%									
		TPH is by EPA Methor	d 418.1								
larrative:											
OF = Dilution Factor Used											
_ (11/-/							

94/11/10 12:01

Sample identification 46476

Initial mass of sample, g

Volume of sample after extraction, ml 08.000

Fetroleum hydrocarbons, ppm 127.061 Pet theorbance of hydrocarbons (2730 cm-1) 1.043

