Nanne S. Four

Location:TN-29 RG-14

NMOCD Zone:OUTSIDE Hazard Ranking Score:00

Meter Number: 90381 **Location Name: COM #2**

> SC-02 UL-A 1 - State

OIL GON. 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:

 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: 90381 Location: 60m #2 Operator #: Operator Name: pural Prop P/L District: KUTZ Coordinates: Letter: A Section 2 Township: 29 Range: 14 Or Latitude Longitude Pit Type: Dehydrator Location Drip: X Line Drip: Other: Site Assessment Date: 1.3.95 Area: 02 Run: 23
SITE ASSESSMENT	NMOCD Zone: (From NMOCD Maps) Inside Outside Outside (2) Indian 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 domest'c water source? (1) YES (20 points) Horizontal Distance to Surface Water Body Less Than 200 Ft (20 points) 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)
	TOTAL HAZARD RANKING SCORE: POINTS
SS	Remarks: REDUNE & TOPO SHOW LOCATION IS OUTSIDE V.2. TWO PITS ON
REMARKS	LOCATION. OHE BELONGS TO OPERATOR, WILL CLOSE EPNG'S LOCATION DRIF.
RE	Push in

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 90381 Location: ८०॥ 3८
FIELD OBSERVATIONS	Sample Number(s): MK 323 MK 323 Sample Depth: 3' Feet Final PID Reading 546 PID Reading Depth 3' Feet Yes No Groundwater Encountered \(\begin{array}{c c c c c c c c c c c c c c c c c c c
CLOSURE	Remediation Method: Excavation
REMARKS	Remarks: Arrived took Fence down dug down 3' Hit Sandstone Soil black Strong Hyprocarbon odor Signature of Specialist: Mongan Xillian



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Outside the GWV Zone

Field ID 323 SX1 1.95 N 7.95	1515 1 A 1-1	n -95					
1.95 N 7-95	1515 1 A 1-1	N/A					
1.95 N 7.95 In	/A /- 1- ~/A	1 -9S					
N 7-95 In	/A /- 1- ~/A	n -95					
7-95 In	1-1°						
In	NIA						
			t t				
G							
	GraylEron	un samel a	mi) Clary				
	DF	Q	M(g)	V(ml)			
MG/KG			0.79	28			
PPM							
%							
TPH is by EPA Metho	od 418.1						
	PPM %	UNITS DF MG/KG PPM	UNITS QUALIF DF Q MG/KG PPM %	UNITS QUALIFIERS DF Q M(g) MG/KG PPM %			

Date: 2-22-95

DF = Dilution Factor Used

Approved By:

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Test Method for
*
     Oil and Grease and Petroleum Hydrocarbons
4
                 in Water and Soil
·
           Ferkin-Elmer Model 1600 FT-IR
                  Analysis Report
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95/01/17
         12:15
Sample identification 946570
 Initial mass of sample, g
. Volume of gample efter extraction, al
28.000
 Petroleum Tydrocarbons, ppm
2014:983
  Net absorbance of bydrocarbons (2730 comt)
 . 504
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