

Meter Number: 75109 **Location Name:STATE #32** Location:TN-30 RG-11 SC-36 UL-O 1 - State NMOCD Zone: OUTSIDE Hazard Ranking Score:00

OIL CON. DIM

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: 75109 Location:STATE #32 Operator #: Operator Name: @Noco P/L District:KUTZ Coordinates: Letter: O Section 36 Township: 30 Range: 11 Or Latitude Longitude Pit Type: Dehydrator X Location Drip: Line Drip: Other: Site Assessment Date: 12.13.94 Area: 62 Run: 33
L	NMOCD Zone: (From NMOCD Maps) Inside Outside Outside Depth to Groundwater Less Than 50 Feet (20 points) For to 99 Ft (10 points) Greater Than 100 Ft (0 points) Wellhead Protection Area:
SIIE ASSESSMENT	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? (1) YES (20 points) (2) NO (0 points) Horizontal Distance to Surface Water Body Less Than 200 Ft (20 points) (1) 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) (2) > 100' TOTAL HAZARD RANKING SCORE: POINTS
	Remarks: REDLINE : TOPO SHOW LOCATEN OUTSIDE U.Z. THREE PITS ON LEXATION - TWO BELONG TO THE OPERATOR WILL CLOSE EPNES DEHY PIT.

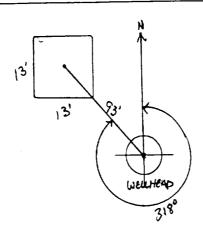
LOCATION	
PIT	
GINAL	

REMARKS

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 318° Footage from Wellhead 93'

b) Length : 13 Width : 13 Depth : 1'



Remark	8		:
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PHOTOS-0958

Completed By:

Signature

12:13-94 Date

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 15109 Location:
FIELD OBSERVATIONS	Sample Number(s): MK 317 Sample Depth: Feet Final PID Reading PID Reading Depth Feet Yes No Groundwater Encountered
CLOSURE	Remediation Method: Excavation
REMARKS	Other Facility Name: Pit Closure Date: 1-4-95 Pit Closed By: BEI Remarks: 1-3 Feet Brown Sand 4-10 black Sand Strong HYDrocarbon odor
	Signature of Specialist: Morgo Killion (SP3181) 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:	MK 317	946566
MTR CODE SITE NAME:	75109	N/A
SAMPLE DATE TIME (Hrs):	1-4-95	0930
SAMPLED BY:		N/A
DATE OF TPH EXT. ANAL.:	1-12-95	1-12-95
DATE OF BTEX EXT. ANAL.:	AIG	NIA
TYPE DESCRIPTION:	VG	Brown Gray sand and olm

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RESULTS

PARAMETER	RESULT	UNITS	DF	QUALIF	IERS M(g)	V(mi)
TPH (418.1)	2180	MG/KG			2.50	27
HEADSPACE PID	512	РРМ				V
PERCENT SOLIDS	83.7	%				

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HEADSPACE PID	512	PPM				
PERCENT SOLIDS	83.7	%				
		TPH is by EPA Metho	od 418.1			<u></u>
Narrative:					. , ,	
DF = Dilution Factor Used				*******		
Approved By:			Date:	2-22	-95	

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.chod for
    Oil and Grease and Petroleum Hydrocarbons
               in Water and Soil
         Perkin-Elmer Model 1600 FT-IR
               Analysis Report
***********************
95/01/12 10:41
  Sample identification
946556
  Initial mass of sample, g
0.000
 Volume of sample after extraction, mi
 Patroleum hydrocarbons, ppm
2183.680
 Net absorbance of hydrocarbons (2930 cm-1)
        Mi Petroleum nydrocarbons spectrum
                                                        12:4
3260
                         3000
                                               2300
                                                         om-L
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ILLEGIBLE