Denny & Fout DEPUTY OIL & GAS INSPECTOR

DEC 2 2 1997

Meter Number:89890 ocation Name:GARTNER A #1A Location:TN-30 RG-08 SC-28 UL-C

2 - Federal NMOCD Zone:OUTSIDE Hazard Ranking Score:00 RECEIVED APR 1 4 1997

OIL GON. DIV. 8 Juli

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: 89890 Location: GARTNER AT IA Operator #: D203 Operator Name: Amoco P/L District: BloomField Coordinates: Letter: C Section 28 Township: 30 Range: 8 Or Latitude Longitude Pit Type: Dehydrator X Location Drip: Line Drip: Other: Site Assessment Date: 4.28.54 Area: 10 Run: 22 41 4.28.59
	NMOCD Zone: Land Type: BLM ☑ (1) (From NMOCD State ☑ (2) Maps) Inside ☑ (1) Fee ☑ (3) Outside ☒ (2) Indian
	50 Ft to 99 Ft (10 points) (2) Greater Than 100 Ft (0 points) (3)
ASSESSMENT	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? ☐ (1) YES (20 points) ☒ (2) NO (0 points)
SITE ASSI	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
3KS	Remarks: Four Pits on Location. WILL CLOSE ONLY ONE. PIT IS DRY. LOCATION IS WAY UP ON TOP OF A MESA. REOLINE AND TOPO CONFIRMED LOCATION TO
REMARKS	RE DURIDE THE V.Z.
R	PUSH IN

	ORIGINAL PIT LOCATION
	Original Pit : a) Degrees from North <u>65°</u> Footage from Wellhead <u>47'</u>
7	b) Length : <u>25</u> Width : <u>22'</u> Depth : <u>3'</u>
ORIGINAL PIT LOCATION	IOEILHEAD 25'
	Remarks :
	TOOK PICTURES AT 1:51 P.M. END DUMP
ARKS	
REMAR	
	Completed By:
	Signature Date
	Date

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GERAL	Meter: <u>B9890</u> Location: <u>Gwtner A # JA</u> Coordinates: Letter: <u>C</u> Section <u>28</u> Township: <u>30</u> Range: <u>8</u> Or Latitude Longitude Date Started: <u>5.20-94</u> Area: <u>10</u> Run: <u>4(</u>
FIELD OBSERVATIONS	Sample Number(s): VW129 Sample Depth:
CLOSURE	
REMARKS	Remarks:



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID VW 129 945262 89890 N/A 5-20-94 1345		Field	
			AMPLE NUMBER: VW 129	
			8 9 8	MTR CODE SITE NAME:
			5-20	SAMPLE DATE TIME (Hrs):
1	N/A STOULALL			SAMPLED BY:
	Brown free Sand + Clay		5/2.4	TE OF TPH EXT. ANAL.:
			`N/A	ATE OF BTEX EXT. ANAL.:
+ Clan			VG	TYPE DESCRIPTION:
				REMARKS:
		RESULTS		
QUALIFIERS		UNITS	RESULT	PARAMETER
M(g) V(mi)	DF Q			
		MG/KG		BENZENE
		MG/KG		TOLUENE
		MG/KG		ETHYL BENZENE
		MG/KG		TOTAL XYLENES
		MG/KG		TOTAL BTEX
2.03 28		MG/KG	1140	TPH (418.1)
		PPM	213	HEADSPACE PID
		%	91.6	PERCENT SOLIDS
	ethod 8020 – All QA/QC was accep	$\frac{18.1}{9}$ and BTEX is by EPA M	- TPH is by EPA Method 4	Surrogate Recovery was at ative:

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

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Perkin-Elmer Model 1600 FT-IR Analysis Report **********************

04/05/24 10:40

Sample identification 45263

Initial mass of sample, g

Volume of sample after extraction, ml

Teiroleum hydrocarbens, opm 175.752 Met absorbance of hydrocarbons (2930 cm-1)

