DEPUTY OIL & GAS INSPECTOR cation Name: GALLEGOS C.U. #184 E

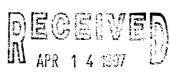
DEC 3 0 1997

Location:TN-28 RG-12

SC-28 UL-J 2 - Federal

NMOCD Zone: OUTSIDE

Hazard Ranking Score:00



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 Clay

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: 94427 Location: Selega C.4 # 1846 Operator #: 0203 Operator Name: Amaca P/L District: Angellese Coordinates: Letter: J Section 28 Township: 28 Range: 12 Or Latitude Longitude Pit Type: Dehydrator X Location Drip: Line Drip: Other: Site Assessment Date: 7-12-94 Area: 01 Run:					
	NMOCD Zone: (From NMOCD Maps) Inside Outside Land Type: BLM State (2) Fee (3) Indian Indian					
	Depth to GroundwaterLess Than 50 Feet (20 points)☐ (1)50 Ft to 99 Ft (10 points)☐ (2)Greater Than 100 Ft (0 points)☒ (3)					
SITE 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)					
	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					
EMARKS	Remarks:					
EMA						

FIET PIT REMEDIATION/CLOSY E FORM

GENERAL	Meter: 94427 Location: Lellego C.U. #1846 Coordinates: Letter: J Section 28 Township: 28 Range: 12 Or Latitude Longitude Date Started: 7-/2-94 Area: 01 Run: 32
FIELD OBSERVATIONS	Sample Number(s): Feet Sample Depth: Feet Final PID Reading PID Reading Depth Feet Yes No Groundwater Encountered
CLOSURE	Remediation Method: Excavation
REMARKS	Pit Closure Date: 7-12-94 Pit Closed By: EPNE Remarks: Signature of Specialist: CUMINA (SPS)(91) 04/07/94



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

Lab ID Field ID SAMPLE NUMBER: 945650 CVH8 94427 MTR CODE | SITE NAME: N/A SAMPLE DATE | TIME (Hrs): 7-12-94 1038 **SAMPLED BY:** N/A DATE OF TPH EXT. | ANAL.: DATE OF BTEX EXT. | ANAL.: NM TYPE | DESCRIPTION: V (-

REMARKS: Needs PIT

RESULTS

PARAMETER	RESULT	UNITS		QUALIFIERS		
			DF	Q	M(g)	V(ml)
BENZENE		MG/KG				
TOLUENE		MG/KG				
ETHYL BENZENE		MG/KG				
TOTAL XYLENES		MG/KG				
TOTAL BTEX		MG/KG				
TPH (418.1)	2640	MG/KG			2.20	.28
HEADSPACE PID	1460	PPM		us .		
PERCENT SOLIDS	90,3	%				

- TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020 -

The Surrogate Recovery was at	N/A	% for this sample	All QA/QC was acceptable
Varrative:	•		

DF = Dilution Factor Used

8/12/11

74/07/14 10:56

Sample identification P45650

Initial mass of eample, g 5.200

Volume of sample after extraction, al $22.000\,$

Setroleum hydrocarbons, ppm 1887-1837

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