DEPUTY OIL & GAS INSPECTOR

DEC 22 1997

Meter Number:93208
Location Name:ARCHULETA #2
Location:TN-30 RG-08
SC-19 UL-D
2 - Federal
NMOCD Zone:OUTSIDE

Hazard Ranking Score:00

REGERVED APR 1 4 1897 OUL GON. DUV.

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^{-13} 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: 93208 Location: ARCHULETA #2 Operator #: 6203 Operator Name: AMoco P/L District: BloomFIELO Coordinates: Letter: D Section 19 Township: 30 Range: 8 Or Latitude Longitude Pit Type: Dehydrator Location Drip: X Line Drip: Other: Site Assessment Date: 5:23.94 Area: 10 Run: 32				
SITE ASSESSMENT	NMOCD Zone: Land Type: BLM ☒ (1) (From NMOCD State ☐ (2) Maps) Inside ☐ (1) Fee ☐ (3) Outside ☒ (2) 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)				
	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				
RhS	Remarks: Four POTS ON LOCATION. WILL CLOSE ONLY ONE. PIT IS DRY. LOCATION IS ON TOP OF PUMP MESA. REDLINE AND TOPO CONFIRMED LOCATION IS				
REMARAS	OUTSIDE U.Z. PUSH-TAT				

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(SP3190) 04/08/94

	ORIGINAL PIT LOCATION				
ORIGINAL PIT LOCATION	Original Pit : a) Degrees from North <u>250°</u> Footage from Wellhead <u>59′</u> b) Length : <u>23′</u> Width : <u>21′</u> Depth : <u>3′</u>				
	25° WELLHEAD 25°°				
	Remarks: TOOK PICTURES AT 11:46 A.M. ENO DUMP				
REMARKS					
1 .					

Completed By:

Signature

5.23.94

Date

FIELL PIT REMEDIATION/CLOSULE FORM

GENERAL	Meter: 93208 Location: ArchvleHn #2 Coordinates: Letter: D Section 19 Township: 30 Range: 8 Or Latitude Longitude Date Started: 6.13-94 Area: 10 Run: 32
FIELD OBSERVATIONS	Sample Number(s): \(\frac{\fr
CLOSURE	Remediation Method: Excavation
REMARKS	Pit Closure Date: 6-13-94 Pit Closed By: 13ET Remarks: flNG Ine markers, 4 ht sandstone. Signature of Specialist: Like Wilsen (SP3191) 04/07/94



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	VW 197	945440
MTR CODE SITE NAME:	93208	N/A
SAMPLE DATE TIME (Hrs):	10-13-94	1245
SAMPLED BY:		N/A
DATE OF TPH EXT. ANAL.:	6/16/94	(6/16/94
DATE OF BTEX EXT. ANAL.:	NIA	N/A
TYPE DESCRIPTION:	V G-	Boun Sand/C/Ay

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
PARAMETER			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)	61,300	MG/KG			0.10	28
HEADSPACE PID	166	PPM				
PERCENT SOLIDS	88.1	%				

The Surrogate Recovery was at	NIA	_% for this sample	All QA/QC was acceptable.
Varrativa:			

OF = Dilution Factor Used

7/14/94

