DEPUTY ON A GAS INSPECTOR

Meter Number:73078
Location Name:LUDWICK LS #19
Location:TN-29 RG-10
SC-05 UL-B
2 - Federal
NMOCD Zone:OUTSIDE

Hazard Ranking Score:00

REGEIVED APR 1 4 1997

OIL GON. DIV. Bibl. 3

Approved

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: 73078 Location: Lubwick LS # 19 Operator #: 6203 Operator Name: Amoco P/L District: Bwomfield Coordinates: Letter: B Section S Township: 29 Range: 10 Or Latitude Longitude Pit Type: Dehydrator X Location Drip: Line Drip: Other: Site Assessment Date: 5:2:94 Area: 10 Run: 73			
SITE ASSESSMENT	NMOCD Zone: Land Type: BLM			
REMARns	Remarks: ONLY PIT ON LOCATION. PIT IS DRY, REQUIRE SHOWS LOCATION IS INSIDE THE V.Z. AND ETTOPO SHOWS THAT IT IS OUTSIDE THE V.Z.			
RE!	PUSH IN			

FIELY PIT REMEDIATION/CLOSUL FORM

GENERAL	Meter: 73078 Location: Lodwick LS#19 Coordinates: Letter: 3 Section 5 Township: 29 Range: 20 Or Latitude Longitude Date Started: 6-13-94 Area: 10 Run: 73
FIELD OBSERVATIONS	Sample Number(s): 194 Sample Depth: Feet Final PID Reading 224 PID Reading Depth 12' Feet Yes No Groundwater Encountered (1) (2) Approximate Depth Feet
CLOSURE	Remediation Method: Excavation
REMARKS	Remarks: EPULLE MINIS Signature of Specialist: Value Walant



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID		
SAMPLE NUMBER:	VW 194	9454/37		
MTR CODE SITE NAME:	73078	N/A		
SAMPLE DATE TIME (Hrs):	6-13-94	6930		
SAMPLED BY:	N/A			
DATE OF TPH EXT. ANAL.:	6/16/94	61694		
DATE OF BTEX EXT. ANAL.:	NIA	N/A		
TYPE DESCRIPTION:	V G	Black Coarse Sand		

R	FI	VI	А	R	K	S

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				<u></u>
TOTAL BTEX		MG/KG				
TPH (418.1)	3720	MG/KG			2.20	28
HEADSPACE PID	224	PPM				
PERCENT SOLIDS	89.9	%				

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

The Surrogate Recovery was at	NIA	%
A.1		

% for this sample All QA/QC was acceptable.

Narrative:

DF = Dilution Factor Used

Approved By:

of Fuldy

Date:

7/14/94/