Denny D. & Walkerton

BEC 2 2 1997

Meter Number:72634

Location Name: ELLIOTT GAS COM K#1

Location:TN-30 RG-09 SC-26 UL-O

2 - Federal

NMOCD Zone:OUTSIDE

Hazard Ranking Score:00



OIL GOID. DAV. DIST. 2)

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 (logs), 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.

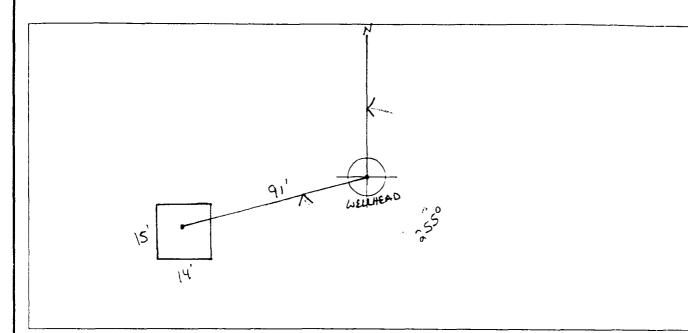


FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: 72 634 Location:ELLIOT 6AS COM K # Operator #:O2O3 Operator Name: _Amoco P/L District: _BloomFIELD Coordinates: Letter: _O Section 26 Township: _30 Range: _9 Or
	NMOCD Zone: (From NMOCD Maps) Outside Depth to Groundwater Less Than 50 Feet (20 points) 50 Ft to 99 Ft (10 points) Contact
ASSESSMENT	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)
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
, KS	Remarks: ONLY PIT ON LOCATION PIT IS DRY.
REMARKS	
RE	

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North <u>255°</u> Footage from Wellhead <u>91'</u>



STARTED				=		
END DUI	<u>np</u>	- 1	<u> </u>			
					 ····	

Completed By:

Roy Champan

4.18.94

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAI	Meter: 72634 Location: Elloff Gas (om K#) Coordinates: Letter: O Section 26 Township: 30 Range: 9 Or Latitude Longitude Date Started: 5:31.94 Area: O Run: 4:3
FIELD OBSERVATIONS	Sample Number(s): \(\frac{V \omega 154}{V \text{ Feet}} \) Sample Depth: \(\frac{12'}{\text{ Feet}} \) Final PID Reading \(\frac{29.5}{\text{ Yes}} \) No Groundwater Encountered \(\begin{pmatrix} (1) \omega (2) \text{ Approximate Depth } \equiv \text{ Feet} \)
CLOSURE	Remediation Method: Excavation
REMARKS	Remarks: Line Markers Signature of Specialist: Vale Wilson

(SP3191) 04/07/94



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field I	ID		Lab ID			
SAMPLE NUMBER:	VW 15	945	945311				
MTR CODE SITE NAME:	7263		N/A				
SAMPLE DATE TIME (Hrs):	5-31-94		1400				
SAMPLED BY:		N.	/A				
DATE OF TPH EXT. ANAL.:	6-2-74		6/2				
DATE OF BTEX EXT. ANAL.:	^s /A		N				
TYPE : DESCRIPTION:	v G -		Bosun	Brown time Sand			
_							
REMARKS:							
	F	RESULTS					
			T				
PARAMETER	RESULT	UNITS		QUALIF	IERS		
			DF	Q	M(g)	V(mi	
BENZENE		MG/KG					
TOLUENE		MG/KG					
		DACIVO					
ETHYL BENZENE		MG/KG					
ETHYL BENZENE TOTAL XYLENES		MG/KG					
TOTAL XYLENES	7930	MG/KG			. 39	28	
TOTAL XYLENES TOTAL BTEX	7730 293	MG/KG			, 29	28	
TOTAL XYLENES TOTAL BTEX TPH (418.1) HEADSPACE PID PERCENT SOLIDS	293 93.8	MG/KG MG/KG MG/KG PPM %			. 39	28	
TOTAL XYLENES TOTAL BTEX TPH (418.1) HEADSPACE PID PERCENT SOLIDS	293 93. 8 -TPH is by EPA Method 41	MG/KG MG/KG MG/KG PPM %				28	

Test Met.__d for Oil and Grease and Petroleum Hydrocarbons in Water and Soil

Perkin-Elmer Model 1600 FT-IR Analysis Report

F4/06/02 16:47

Sample identification 745311

Initial mass of sample, g

Volume of sample sfirs extraction, al 18.000

Patrolaum hydrocarbons: opm 1915.957 Met absorbance of hydrocarbons (2930 cm-i) 1,398

