DEPUTY ON & GAS WISPECTOR

DEC 2 9 1997

Meter Number:75733
Location Name:HODGES #14 (PIT 1)
Location:TN-26 RG-08
SC-21 UL-O
2 - Federal

NMOCD Zone:OUTSIDE
Hazard Ranking Score:00

REGEIVED APR 1 4 1997

OIL CON. DIV.

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:

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

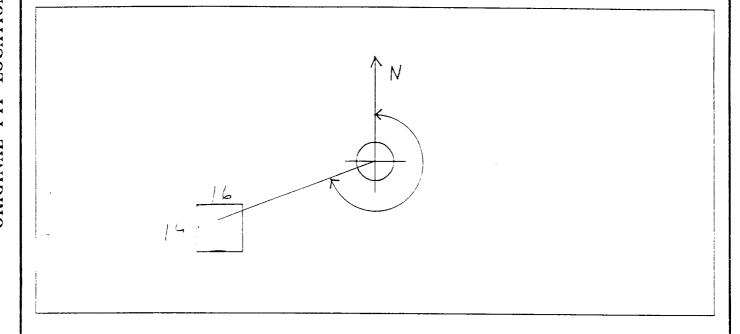
GENERAL	Meter: 75733 Location: Hodges #14 Operator #: 0177 Operator Name: Mexit EnergyP/L District: Ballard Coordinates: Letter: O Section 21 Township: 26 Range: 8 W Or Latitude Longitude Pit Type: Dehydrator X Location Drip: Line Drip: Other: Site Assessment Date: 6-27-94 Area: 11 Run: 21								
	NMOCD Zone: Land Type: BLM ⋈ (1) (From NMOCD State (2) Maps) Inside (1) =ee (3) Outside (2) Indian Indian								
SITE ASSESSMENT	Depth to Groundwater Less 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								
REMAKKS	Remarks: Three pits on location. Dely pit vry. Dely still on location-not operating. Drip pit to be closed also - I see other assessment for this location								
24	Outside 11.2 on Redline & TODO Pushin								

REMARKS

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North <u>250</u> Footage from Wellhead <u>8/</u>

b) Length: 16 Width: 14 Depth: 3



Remarks :	
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Photos- 1049 hrs

Two pits to be closed on this location. See accompanying assessment.

Completed By:

Signature

6-27-94

Date

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 15733 Location: Hodges #14 Coordinates: Letter: O Section 21 Township: 26 Range: 8 Or Latitude Longitude Date Started: 9.28-94 Run: 11 21
FIELD OBSERVATIONS	Sample Number(s): \(\frac{\frac{12}{261}}{\frac{12}{2}} \) Feet Final PID Reading \(\frac{003}{2} \) Yes No Groundwater Encountered \(\square \frac{12}{2} \) Approximate Depth \(\square \frac{12}{2} \) Feet
CLOSURE	Remediation Method: Excavation
REMARKS	Remarks: Some Line markers. Soil Look Brown Looking
	Signature of Specialist: Kelly Tealls

(SP3191) 03/16/94



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field I	D		Lab ID			
SAMPLE NUMBER:	KP 26	9463	946247				
MTR CODE SITE NAME:	75733		N/A				
SAMPLE DATE TIME (Hrs):	9-28-9	14	1445				
SAMPLED BY:		N	/A	A			
DATE OF TPH EXT. ANAL.:	9-29-	9-29-34					
ATE OF BTEX EXT. ANAL.:	10-2.	10-6,	(-				
TYPE DESCRIPTION:	√ Ģ	Grown -	Brown bue. Soud & clay				
REMARKS:		RESULTS					
		LOOLIO					
PARAMETER	RESULT	UNITS		QUALIFIERS			
			DF	<u> </u>	M(g)	V(mi	
BENZENE	40.025	MG/KG	ı				
TOLUENE	۷0.025	MG/KG	1				
ETHYL BENZENE	10.025	MG/KG	1				
TOTAL XYLENES	40.025	MG/KG	١				
TOTAL BTEX	20.10	MG/KG					
TPH (418.1)	19/3/4/13/673.7	MG/KG			2.02	28	
HEADSPACE PID	.3	PPM					
PERCENT SOLIDS	91.2	%					
	TPH is by EPA Method						
e Surrogate Recovery was at rrative:		% for this samp	ole All QA/QC	, was accep	table.		
ATT Results strac	hed.						
= Dilution Factor Used							

94/09/29 13:49

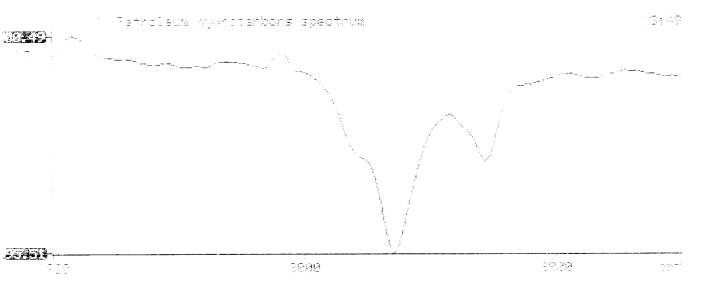
Sample identification P46247

Initial mass of sample, g

Volume of sample after extraction, ml

Petroleum hydrocarbons, ppm 0,874

Neth absorpance of hydrocarbons (2730 cm-1) $^{\circ}$





GAS CHROMATOGRAPHY RESULTS

TEST

: BTEX (EPA 8020)

CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 409445

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE

DIL. FACTOR	
50	
1	
1	
09	
<0.025	
<0.025	
<0.025	
<0.025	
96	



ATI I.D. 409445

October 13, 1994

El Paso Natural Gas Co. P.O. Box 4990 Farmington, NM 37499

Project Name/Number: PIT CLOSURE 24324

Attention: Johr Lambdin

On 09/30/94, Analytical Technologies, Inc., (ADHS License No. AZ0015), received a request to analyze non-aqueous samples. samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

If you have ary questions or comments, please do not hesitate to contact us at (505) 344-3777.

Letítia Krakowski, Ph.D.

Project Manager

MR:jt

Enclosure

H. Mitchell Rubenstein, Ph.D. Laboratory Manager

