Denny S. Fourt DEPUTY OIL & GAS INSPECTOR

DEC 22 1997

Meter Number:89485
ocation Name:Elliot Cas Com C#1A
Location:TN-30 RG-09
SC-09 UL-E
2 - Federal
NMOCD Zone:OUTSIDE

Hazard Ranking Score:00

DECEIVED OF APR 1 1 1887 OF

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



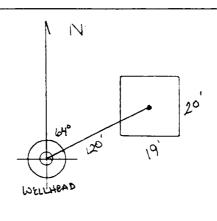
GENERAL	Meter: 89485 Location: <u>SULIOT GAS COM C *IA</u> Operator #: 6203 Operator Name: <u>Amoco</u> P/L District: <u>Aztec</u> Coordinates: Letter: <u>E</u> Section 9 Township: <u>30</u> Range: 9 Or Latitude Longitude Pit Type: Dehydrator X Location Drip: Line Drip: Other: Site Assessment Date: <u>6.2.95</u> Area: <u>10</u> Run: <u>33</u>
SESSMENT	NMOCD Zone: (From NMOCD Maps) Inside Outside Outside Depth to Groundwater Less Than 50 Feet (20 points) 50 Ft to 99 Ft (10 points) Greater Than 100 Ft (0 points) 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
SITE ASSES	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 ————————————————————————————————————
REMARK	Remarks: Redline Book: INSIDE VUNERABLE ZONE TOPO: OINTSIDE. THERE ARE TWO PITS ON THIS LOCATION. DEHY PIT BELONGS TREPNO. WILL CLOSE PAT. DEHY HAS NOT BEEN REMOVED BUT IS NOT OPERATING. (SPI) 04/08/94

REMARKS

ORIGINAL PIT LOCATION

Original Pit: a) Degrees from North 64° Footage from Wellhead 120'

b) Length: <u>20'</u> Width: <u>19'</u> Depth: <u>3'</u>



Remarks:

Pictures @ 1159 hr

Completed By:

Signature

6.2.95

Date

FIELD PIT REMEDIATION/CLOSURE FORM



GENERAL	Meter: 89485 Location: Elliat 695 (om C*1A) Coordinates: Letter: E Section 9 Township: 30 Range: 9 Or Latitude Longitude Date Started: 7-11-95 Run: 10 33
FIELD OBSERVATIONS	Sample Number(s): AK 43L Sample Depth: & Feet Final PID Reading Feet Yes No Groundwater Encountered
CLOSURE	Remediation Method: Excavation
REMARKS	Remarks: Arrived took Ferre down Dug sample Hole Soil Started out Black truned Brown Strong MyDrocardon odor Signature of Specialist: Morgan Xeleion



Phasel

FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Outside the GWV Zone

SAMPLE IDENTIFICATION

Field ID NK 432 29.485 7-11-95 7-12-95		94697 13:30 7-12	N/A) 9 S		
7-11-95 7-12-95 7-12-95		13:30	N/A) 9 S		
7-11-95 7-12-95 7-12-95		7.12) 9 S		
7-12-95, 16		7.12	-9S		
16					
16					
		gown sand	4 clan		
		Bown sand	+ clan		
DEC					
ITLG	SULTS				
RESULT	UNITS	DF DF	QUALIFIE	RS M(g)	V(ml)
753	MG/KG			1.96	28
14	PPM				
2.0%	%				
TPH	I is by EPA Method 41	18.1			
	153 14 2.0%	MG/KG PPM 2.0% %	RESULT UNITS DF	RESULT UNITS QUALIFIED OF QUALI	Color

********************** Test Method for Oil and Grease and Petroleum Hydrocarbons in Water and Soil

Perkin-Elmer Model 1600 FT-IR Analysis Report ******************

95/07/12 12:48

Sample identification 946976

Initial mass of sample, g

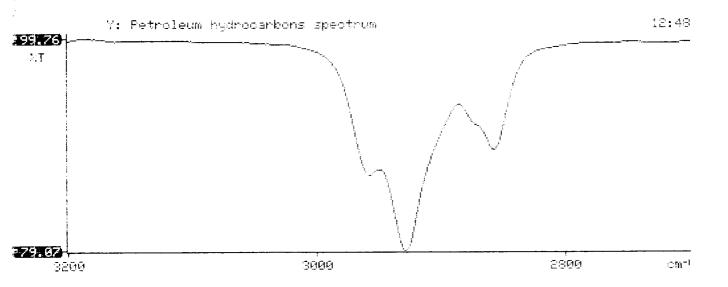
1.960

Volume of sample after extraction, ml

Petroleum hydrocarbons, ppm

752.706

Net absorbance of hydrocarbons (2930 cm-1) 0.100



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