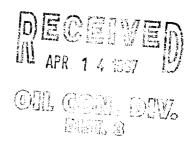
Denny & Part DEPUTY OIL & GAS INSPECTOR

DEC 291997

Meter Number:89359
Location Name:CANYON #7
Location:TN-25 RG-11
SC-15 UL-P
2 - Federal
NMOCD Zone:OUTSIDE
Hazard Ranking Score:00



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: 89-359Location: CANYON *7 (from Picture) Operator #: 0203 Operator Name: Amoco P/L District: Ballaro Coordinates: Letter: P Section 15 Township: 25 Range: 1) Or Latitude Longitude Pit Type: Dehydrator X Location Drip: Line Drip: Other: Site Assessment Date: 11494 Area: 11 Run: 52					
SITE ASSESSMENT	NMOCD Zone: (From NMOCD Maps) Inside Outside Land Type: BLM (1) State (2) Fee (3) Indian Indian					
	Depth to Groundwater Less Than 50 Feet (20 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 domestic water source? (1) YES (20 points) (2) NO (0 points)					
	Horizontal Distance to Surface Water Body Less Than 200 Ft (20 points)					
	(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					
MARKS	Remarks :					
MAI						

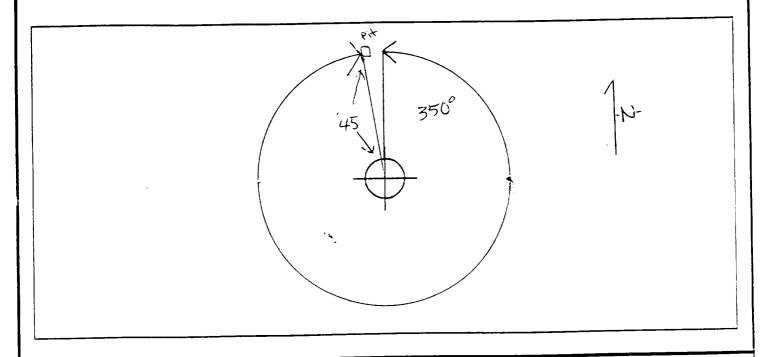
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REMARKS

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 350° Footage from Wellhead 45°

b) Length: 12 | Depth: 3



Remarks:					
	······································				
		 		<u> </u>	
	<u>,</u>				

Completed By:

Signature

7/14/94 Date

FIEL PIT REMEDIATION/CLOSU 7 FORM

GENERAL	Meter: 89-359 Location: Canyon #7 (from picture) Coordinates: Letter: P Section 15 Township: 25 Range: 11 Or Latitude Longitude Date Started: 7-14-94 Area: 11 Run: 52
FIELD OBSERVATIONS	Sample Number(s): Y Y
CLOSURE	Remediation Method: Excavation Onsite Bioremediation Backfill Pit Without Excavation (3) Soil Disposition: Envirotech Other Facility Pit Closure Date: 7-14-94 Pit Closed By: El Pub Nat. GAS PIL Maint.
REMARKS	Remarks: Signature of Specialist: Jamba Jama

(SP3191) 04/07/94



FIELD SERVICES LABORATORY **ANALYTICAL REPORT** PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	hy le	945734
MTR CODE SITE NAME:	89359	N/A
SAMPLE DATE TIME (Hrs):	7/14/94	1130
SAMPLED BY:		N/A
DATE OF TPH EXT. ANAL.:	7/21/94	7/21/94
DATE OF BTEX EXT. ANAL.:	N) A	NIA
TYPE DESCRIPTION:	V C	

REMARKS: Needs 71

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				
TOTAL BTEX		MG/KG				
TPH (418.1)	210	MG/KG			2112	20
HEADSPACE PID	410	PPM				
PERCENT SOLIDS	1 95.07	75.1 %				

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

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

OF = Dilution Factor Used

Approved By:

Date: 8/Nov

Triniteum hydrocarbors, ppm 1971-198 Tet Ausorbance of Indicocarbons (2930 ch-1) 1970-1

