CAPTYOLA CACAGA ESTOR

(98-1 S **033**

Meter Number: 72081
Location Name: SAN JUAN 29-7 UNIT #55
Location: TN-29 RG-07

SC-36 UL-H 1 - State

NMOCD Zone: OUTSIDE Hazard Ranking Score: 00

DECENTED OF AFR 1 4 1937 D

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.



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FIELD PIT SITE ASSESSMENT FORM

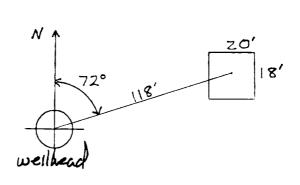
GENERAL	Meter: 72081 Location: Saw Juan 29-7 Unit 55 Operator #: 2999 Operator Name: Merican P/L District: Bloomfold Coordinates: Letter: #_ Section 36 Township: 29 Range: 7 Or Latitude Longitude Pit Type: Dehydrator Location Drip: X Line Drip: Other: Site Assessment Date: 6-6-94 Area: 10 Run: 91				
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) ☐ (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				
REMARKS	Remarks: Pit is dry				
MA	P-10-3-KI				
RE	Locatron Marche V.Z. on Redline outside on Topo FIGHIN				

REMARKS

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Original Pit: a) Degrees from North 72 Footage from Wellhead 418

b) Length: <u>20</u> Width: <u>18</u> -Depth: <u>2</u>



Remarks:

Photos - 1100

Dump track

Completed By:

Signature

6-6-94

Date

FILLD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 1208/ Location: SAN JUAN 29-7 Unit 55 Coordinates: Letter: #_ Section 26 Township: 29 Range: 7 Or Latitude Longitude Date Started: 2-1/-94 Area: 10 Run: 9/					
FIELD OBSERVATIONS	Sample Number(s): MK107 Sample Depth: 10 Feet Final PID Reading 286 PID Reading Depth 10 Feet Yes No Groundwater Encountered (1) (2) Approximate Depth Feet					
CLOSURE	Remediation Method : Excavation					
	Soil Disposition: Envirotech (1) (3) Tierra Other Facility (2) Name: Pit Closure Date: 7-11-94 Pit Closed By: BE I					
REMARKS	Remarks: FRGIINIS NANKED Had to wait For Switcher to open Gales soil light Gray Strong HYDrocalon odor					
	Signature of Specialist: Morgan Zillion (SP\$191) 94/07/94					



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

SAMPLE IDENTIFICATION

_	Field ID	Łab ID		
SAMPLE NUMBER:	MK 108	945627		
MTR CODE SITE NAME:	72081	N/A		
←\MPLE DATE TIME (Hrs):	7-11-94	6940		
SAMPLED BY:	N/A			
DATE OF TPH EXT. ANAL.:	7/12/94	7/12/94		
DATE OF BTEX EXT. ANAL.:	NA	N/A		
TYPE DESCRIPTION:	V 6	Brown Sand/c/Ay		

REMARKS

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)	4700	MG/KG			2.00	28
HEADSPACE PID	284	PPM				
PERCENT SOLIDS	92.0	%				

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

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

DF = Dilution Factor Used

2/0/111

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

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

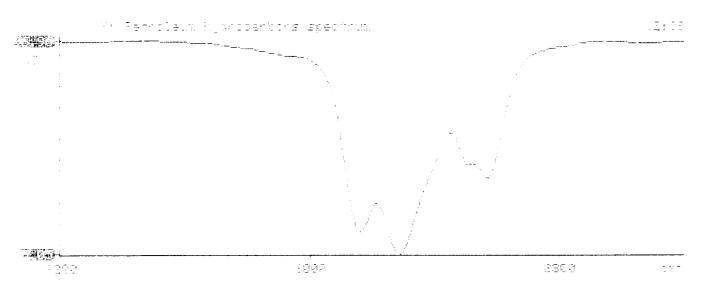
24/07/12 12:08

Sample identification 145627

Toitial mass of sample, g

Molume of sample after extraction, ml 9.000

Tetroleum bydrocarbens, ppm Artilel 19th Arsonbance of bydrocarbens (1970 cm+1) 187



ILLEGIBLE