DESURVOILA CADIDISTECTOR

DEC 2 9 1497

Meter Number: 72041
Location Name: SAN JUAN 28-7 UNIT #92
Location: TN-27 RG-07
SC-20 UL-L
2 - Federal
NMOCD Zone: OUTSIDE

OIL SOME SAME

## RATIONALE FOR RISK-BASED CLOSURE OF PRODUCTION PITS LOCATED OUTSIDE OF THE VULNERABLE ZONE IN THE SAN JUAN BASIN

Hazard Ranking Score:00

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

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GENERAL	Meter: 72041 Location: San Juan 287 Unit 92  Operator #: D203 Operator Name: American P/L District: Blanca  Coordinates: Letter: Section 20 Township: 27 Range: 7  Or Latitude Longitude  Pit Type: Dehydrator Location Drip: Line Drip: Other:  Site Assessment Date: 6/6/94 Area: D2 Run: 32					
	NMOCD Zone:  (From NMOCD  Maps)  Inside  Outside  Depth to Groundwater  Land Type:  BLM (1)  State (2)  Fee (3)  Indian  Indian					
!	Less Than 50 Feet (20 points) (1) 50 Ft to 99 Ft (10 points) (2) Greater Than 100 Ft (0 points) (3)					
ASSESSMENT	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 ASS	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: O POINTS					
KS.	Remarks: Redline + Vuln Out side					
REMARKS	PH.Will clase. Pithas liquid Called Blanco DFAGE					
RE	PUSH-IN					

# ORIGINAL PIT LOCATION Original Pit : a) Degrees from North 355° Footage from Wellhead 85′ b) Length : 18' Width : 17' - Depth : 3' ORIGINAL PIT LOCATION Remarks: P. (tures @ 1420 (2) - 28) Done Truck REMARKS Completed By:

Date

Signature

#### FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 7204/ Location: 3AN JUAN 28-7 #92  Coordinates: Letter: L Section 2 Township: 27 Range: 7  Or Latitude Longitude Longitude Date Started: 2-12-94 Run: 03 32
FIELD OBSERVATIONS	Sample Number(s): <a href="mk263">mk263</a> Sample Depth: <a href="mailto:3">3</a> Feet  Final PID Reading <a href="mailto:235">235</a> PID Reading Depth <a href="mailto:3">3'</a> Feet  Yes No  Groundwater Encountered <a href="mailto:20">X</a> Approximate Depth <a href="mailto:25">Feet</a>
CLOSURE	Remediation Method:  Excavation
REMARKS	Remarks: FRNG 1.NLS NOT Mark Grav. Soil Strong Hypromotes odor Hit Strad Strang 3'  Signature of Specialist: Morgan Killston  (SP3191) 03/16/94



#### FIELD SERVICES LABORATORY ANALYTICAL REPORT

#### PIT CLOSURE PROJECT - Soil Samples Outside the GWV Zone

	Field II	D		Lab ID		1
SAMPLE NUMBER: MIL 263			945923			
MTR CODE   SITE NAME:	NAME: 72041			N/A		
SAMPLE DATE   TIME (Hrs):	9/12/95	13/3				
SAMPLED BY:		N/A				
DATE OF TPH EXT.   ANAL.:	8/14/94		8/14/94			
DATE OF BTEX EXT.   ANAL.:	NIA	NIA		N/A		
TYPE   DESCRIPTION:	VG		H. gren	Fine.	Band	
REMARKS:		TOUL TO		····		
	K	ESULTS				
PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
TPH (418.1)	43,800	MG/KG			0.19	28
HEADSPACE PID	235	PPM				
PERCENT SOLIDS	88.0	%				
	<del></del>	TPH is by EPA Metho	d 418.1		· <del></del>	
rrative:						

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

Perkin-Elmer Model 1600 FT-IR 

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in armed teach

Sample identification MASQUE

TARRAS mass of eample, g

Molume of sample after extraction, ml 1 200

0999

8930

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