Meter Number:75779
Location Name:FLORANCE #77
Location:TN-29 RG-09
SC-12 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

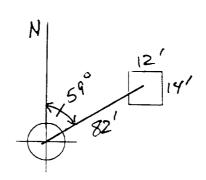
GENERAL	Meter: 7579 Location: FLORENCE #77 Operator #: 0203 Operator Name: AMOCO P/L District: BLOOMFIELD Coordinates: Letter: P Section 12 Township: 29 Range: 9 Or Latitude Longitude Pit Type: Dehydrator Location Drip: Line Drip: Other: Site Assessment Date: 5-11-94 Area: 10 Run: 92
	NMOCD Zone: (From NMOCD Maps) Inside Outside Depth to Groundwater Land Type: BLM 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) (X) (3) Name of Surface Water Body
	(Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canais, Ditches, Lakes, Ponds)
	Distance to Necrest Ephemeral Stream (1) < 100'(Navajo Pits Only)
	TOTAL HAZARD RANKING SCORE: POINTS
REMARKS	Remarks: TWO WELLS ON LOCATION FLORENCE TO HAS TREES. PITS FLORENCE TO HAS ONE PIT. TWO PITS TO BE CLOSED ARE
MA	NEXT EACH OTHER (BETWEEN METER HAVSES) REDCINE AND TOPO
RE	CONFIRM OUTSIDE V.Z. PUSH IN (SP3190) 04/08/94

_ 1 _

REMARKS

ORIGINAL PIT LOCATION

- Original Pit : a) Degrees from North 59° Footage from Wellhead 821
 - b) Length : 14' Width : 12' Depth : 3'



Remarks:

PHOTOGRAPHS AH-1 (19-23)

SEE FLORENCE #22A

END DUMP

Completed By:

Signature

Date

FIELD T REMEDIATION/CLOSURT FORM

GENERAI	Meter: 75779 Location: Flecance ± 77 Coordinates: Letter: P Section 12 Township: 29 Range: 9 Or Latitude Longitude Longitude Date Started: 5-24-94 Area: 10 Run: 92
FIELD OBSERVATIONS	Sample Number(s): $VW145$ Sample Depth: IZ^i Feet Final PID Reading $2I4$ PID Reading Depth IZ^i Feet Yes No Groundwater Encountered \Box (1) \overline{X} (2) Approximate Depth Feet
URE	Remediation Method : Excavation
SOTO	Soil Disposition: Envirotech (1) (3) Tierra Other Facility (2) Name: Pit Closure Date: 5-24-99 Pit Closed By: BEZ
REMARKS	Remarks: Amero Ine. Markus
	Signature of Specialist: Vole Wilson (SP3191) 04/07/5



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

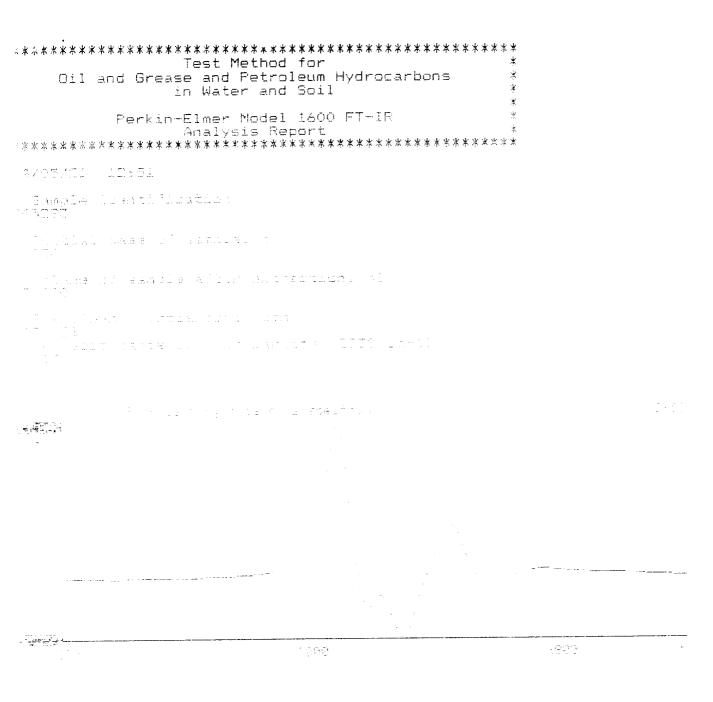
	Field I	D		Lab ID		
SAMPLE NUMBER:	VWIH	s	945	293		
MTR CODE SITE NAME:	7577	7		N/A		
SAMPLE DATE TIME (Hrs):	5-24-0	34	135	5		
SAMPLED BY:		N/A				
DATE OF TPH EXT. ANAL.:	5/2	694	5/76	0/911		
DATE OF BTEX EXT. ANAL.:	NIA		NIA			
TYPE DESCRIPTION:	VG		Brown	4 mg 52	nd	
REMARKS	F	RESULTS				
DADAMETER	RESULT	UNITS		QUALIF	IERS	
PARAMETER	nesoe:		DF	Q	M(g)	V(mi)
BENZENE		MG/KG				
TOLUENE		MG/KG				<u> </u>
ETHYL BENZENE		MG/KG				
TOTAL XYLENES		MG/KG				
TOTAL BTEX		MG/KG				
TPH (418.1)	566 504	MG/KG MISIGH			2.02	26.
HEADSPACE PID	214	РРМ				
PERCENT SOLIDS	91.8	%				
	- TPH is by EPA Method 41			·	ntable	
L - Currogato Pocovery Was at	ALIS	% for this sample	D/AD IIA	, was accer	ימטוב.	

The Surrogate Recovery was at	 	
Varrative:		

F = Dilution Factor Used

Approved By: John Farthi

Date: 6/16/94



LEG DE