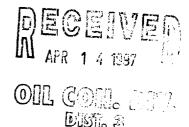
Meter Number: 73224
Location Name: DUDLEY CORNELL A#1
Location: TN-29 RG-12

DEC 8 6 1887

SC-01 UL-O
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



(SP3190) 03/16/94

GENERAL	Meter: 73224 Location: Duoley COENEU A # 1 Operator #: 0203 Operator Name: Almoco P/L District: KuTZ Coordinates: Letter: O Section Township: 29 Range: 12 Or Latitude Longitude Pit Type: Dehydrator X Location Drip: Line Drip: Other: Site Visit Date: 3.21.94 Run: 02 41				
ASSESSMENT	NMOCD Zone: Inside Land Type: BLM (From NMOCD Vulnerable State Maps) Zone Fee Indian Depth to Groundwater Less Than 50 Feet (20 points) To 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 domestic water source? YES (20 points) NO (0 points)				
SITE	Horizontal Distance to Surface Water Body Less Than 200 Ft (20 points) 200 Ft to 1000 Ft (10 points) Greater Than 1000 Ft (0 points) Name of Surface Water Body (Surface Water Body: Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds) TOTAL HAZARD RANKING SCORE: ———————————————————————————————————				
REMARKS	Remarks: TWO PITS ON LOCATION, WILL CLOSE ONLY ONE OF THEM.				

	ORIGINAL PIT LOCATION					
	Original Pit : a) Degrees from North <u>185°</u> Footage to Wellhead <u>89´</u>					
	b) Degrees from NorthFootage to Dogleg					
Z						
[0]	Dogleg Name c) Length : <u>12'</u> Width : <u>//</u> Depth : <u>/</u>					
'AT						
ORIGINAL PIT LOCATION	Therefore the state of the stat					
REMARKS	Remarks: STARTED TAKING PICTURSS AT 11:20 A.M. ENO DUMP					
	Completed By:					
	Toket Champson 3.21.94					
	Signature Date					
	2.3					

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 73224 Location: Dudley Cornell A#/ Coordinates: Letter: O Section I Township: 29 Range: 12 Or Latitude Longitude Longitude Date Started: 5-13-94 Area: 02 Run: 41
FIELD OBSERVATIONS	Sample Number(s): $VW7I$ Sample Depth: $5'$ Feet Final PID Reading $2bb$ PID Reading Depth $5'$ Feet Yes No Groundwater Encountered \square (1) \square (2) Approximate Depth \square Feet
CLOSURE	Remediation Method: Excavation
TO	Envirotech (1) (3) Tierra Other Facility (2) Name: Pit Closure Date: 5-/3-94 Pit Closed By: BET
REMARKS	Remarks: Line Markers. 5' Hit sand stone
]	Signature of Specialist: Vale Wilson



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

			-			
	Field IC)		Lab ID		•
SAMPLE NUMBER:	ורשע		945162			
MTR CODE SITE NAME:	= 73224		₽ /A			
SAMPLE DATE TIME (Hrs):			113	s		
SAMPLED BY:	N) / A	1011		
DATE OF TPH EXT. ANAL.:	5/17/94		1 5/17/94			
DATE OF BTEX EXT. ANAL.:	AIG		'NIA			_
TYPE DESCRIPTION:	٧G		Brown therese sand PJB			
			Brown	sand be	ag	
REMARKS:						
	R	ESULTS				
PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
	1					1
BENZENE		MG/KG				
BENZENE TOLUENE		MG/KG				
TOLUENE		MG/KG				
TOLUENE ETHYL BENZENE		MG/KG				
TOLUENE ETHYL BENZENE TOTAL XYLENES	2000	MG/KG MG/KG			2.26	28
TOLUENE ETHYL BENZENE TOTAL XYLENES TOTAL BTEX	2000	MG/KG MG/KG MG/KG			2.26	28
TOLUENE ETHYL BENZENE TOTAL XYLENES TOTAL BTEX TPH (418.1)		MG/KG MG/KG MG/KG MG/KG			2.26	28

DF = Dilution Factor Used

24/05/17 15:23

Sample identification 745162

Initial mass of sample, g 1.260

Volume of sample after extraction, ml 13.000

Patrolaum hydrocarbons. ppm 1901.213 Net absorbance of hydrocarbons (2930 cm-1)

