Denny & tous DEPUTY OIL & GAS INSPECTOR

DEC 2 9 1997

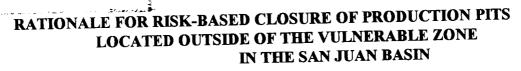
Meter Number:97324 Location Name: MICHENER A LS 5A

Location:TN-28 RG-09 SC-31 UL-D

NMOCD Zone:OUTSIDE

2 - Federal

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:

 10^{-9} to 10^{-13} cm/sec 10^{-12} to 10^{-16} cm/sec 10^{-12} to 10^{-15} cm/sec Sandstone Shale Clay

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.



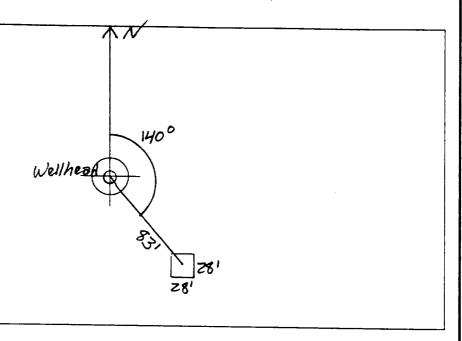


GENERAL	Meter: 97-324 Location: Michener A LS 5A Operator #: 0203 Operator Name: Amoco P/L District: Angel Peak Coordinates: Letter: D Section 31 Township: 28 Range: 9 Or Latitude Longitude Pit Type: Dehydrator Location Drip: X Line Drip: Other: Site Assessment Date: 9/28/94 Area: 01 Run: 52					
	NMOCD Zone: Land Type: BLM (1)					
SITE ASSESSMENT	(From NMOCD State □ (2) Maps) Inside □ (1) Fee □ (3) Outside □ (2) Indian □ (3)					
	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 Armenta Canyon					
	(Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)					
	Distance to Nearest Ephemeral Stream \Box (1) < 100'(Navajo Pits Only) \Box (2) > 100'					
	TOTAL HAZARD RANKING SCORE: POINTS					
RKS	Remarks: <u>ledline book</u> : Outside, Vulnerable Zone Topo: Outside. Two pits, location drip pit is dry. Will close one pit.					
REMARKS	PUSHIN					

REMARKS

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 140° Footage from Wellhead 83^{\prime} b) Length : 28^{\prime} Width : 28^{\prime} Depth : 4^{\prime}



Re	em	ar	ks	
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Pictures at 1439 (20-24, Roll)
Dump Truck

Completed By:

Signature

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: <u>47324</u> Location: <u>Michenel ALS 5A</u> Coordinates: Letter: <u>D</u> Section <u>31</u> Township: <u>28</u> Range: <u>9</u> Or Latitude Longitude Date Started: <u>10-14-94</u> Run: <u>01</u> <u>52</u>
FIELD OBSERVATIONS	Sample Number(s): \(\frac{\fr
CLOSURE	Remediation Method: Excavation
REMARKS	Pit Closure Date: 10-14-54 Pit Closed By: BEZ Remarks:
	Signature of Specialist: Vole Wilson



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Outside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID		Lab ID		1	
SAMPLE NUMBER:	VW 412		946425			
MTR CODE SITE NAME:				N/A		
SAMPLE DATE TIME (Hrs):	10-14-	94	0	0990		
SAMPLED BY:				/A		
DATE OF TPH EXT. ANAL.:	,			10-17-94		
DATE OF BTEX EXT. ANAL.:	AIA			NIA		
TYPE DESCRIPTION:	V G		Brown	Sand Jalay		
REMARKS:		DECLUTE				
		RESULTS				
			T			
PARAMETER	RESULT	UNITS	DF	QUALIFIERS	V(ml)	
	700		UF	2.08		
TPH (418.1)	323	MG/KG		0000	<u> </u>	
HEADSPACE PID	169	PPM				
PERCENT SOLIDS	88.2	%				
		TPH is by EPA Meth	od 418.1			
Narrative:						
DF = Dilution Factor Used						
Approved By:			Date:	10/23/94		

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

Perkin-Elmer Model 1600 FT-IR

24/10/17 13:25

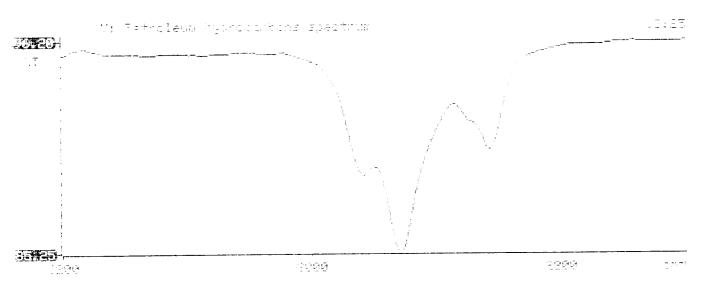
Sample identification 746425

Initial mass of sample, g 1.020

Volume of sample after extraction, $\sigma I = 15,000$

Fetholeum hydrocambons. ppm 125.182

Nat absorbance of hyprocarbons (2730 cm-1)



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