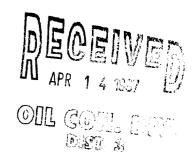
DEPUTY OIL & GAS IMPRECTOR

DEC 22 1997

Meter Number: 87467
Location Name: W.D. HEATH B#4
Location: TN-30 RG-09
SC-31 UL-A
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.

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	Meter: <u>82467</u> Location: <u>w.o. HEATH B #4</u>				
ļ	Operator #: 0203 Operator Name: Amoco P/L District: BloomFIECO				
ERA	Coordinates: Letter: A Section 31 Township: 30 Range: 904-14-94				
GENERAL	Or LatitudeLongitude				
	Pit Type: Dehydrator Location Drip: X Line Drip: Other:				
	Site Visit Date: 4.14.94 Run: 10 83				
	NMOCD Zone: Inside Land Type: BLM X (From NMOCD Vulnerable State Maps) Zone X Fee Outside Indian				
NT	Depth to Groundwater Less Than 50 Feet (20 points) □ 50 Ft to 99 Ft (10 points) □ 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? 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:O POINTS				
REMARKS	Remarks: Two PITS ON LOCATION. WILL CLOSE ONLY ONE PIT IS DET.				
ЕМА	I DET.				
R					

FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: 87467 Location: W.D. NEATH & #4 Operator #: Operator Name: P/L District: Coordinates: Letter: Section Township: Range: Or
	NMOCD Zone: Land Type: BLM □ (1) (From NMOCD State □ (2) Maps) Inside □ (1) Fee □ (3) Outside □ (2) Indian □ (3)
SITE ASSESSMENT	Depth to Groundwater Less Than 50 Feet (20 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? (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
KS	Remarks :
EMARKS	
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	ODICINAL DIE LOCATION
ORIGINAL PIT LOCATION	Original Pit: a) Degrees from North 76° Footage to Wellhead 107' b) Degrees from North Footage to Dogleg Dogleg Name c) Length: (8' Width: 17' Depth: 2'
REMARKS	Remarks: STARTED TAKING PICTURES AT 2:57 P.M. ENO DUMP Completed By:
	Signature 4.14.94 Date

FIELY PIT REMEDIATION/CLOSU : FORM

GENERAL	Meter: 87467 Location: W.D. Heath B # 4 Coordinates: Letter: A Section 31 Township: 30 Range: 9 Or Latitude Longitude Date Started: 6-6-94 Area: 10 Run: 83
FIELD OBSERVATIONS	Sample Number(s): MK7 Feet Sample Depth: Feet Final PID Reading /4/ PID Reading Depth Feet Yes No Groundwater Encountered [] (1) [2] (2) Approximate Depth Feet
CLOSURE	Remediation Method: Excavation
	Soil Disposition: Envirotech (1) (3) Tierra Other Facility (2) Name:
-	Pit Closure Date: <u>16-94</u> Pit Closed By: <u>B.E.T.</u>
REMARKS	Remarks: Line markers on site, Dark grey soil with slight hydrocarbon odos
	Signature of Specialist: Margan Killion (SP3191) 04/07/94

-2-

Approved By: Adu Yanton



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

				1-10			
SAMPLE NUMBER:	Field ID		alles	Lab ID 4452 67 N/A 1245			
MTR CODE SITE NAME:		MK 7					
SAMPLE DATE TIME (Hrs):	97467						
SAMPLED BY:			N/A				
DATE OF TPH EXT. ANAL.:	6-7-94		6194				
DATE OF BTEX EXT. ANAL.:		NA		NIA			
TYPE DESCRIPTION:	VG		Trey fin	Frey fine Sand			
REMARKS:			<i>)</i> (
		RESULTS					
				-adi			
PARAMETER	RESULT	UNITS		QUALIFIERS			
			DF	Q	M(g)	V(mi)	
BENZENE		MG/KG					
TOLUENE		MG/KG					
ETHYL BENZENE		MG/KG					
TOTAL XYLENES		MG/KG					
TOTAL BTEX		MG/KG					
TPH (418.1)	2140	MG/KG			2.09	28	
HEADSPACE PID	141	PPM					
PERCENT SOLIDS	93.8	%				···········	
he Surrogate Recovery was at arrative:	- TPH is by EPA Method 4	s18.1 and BTEX is by EP/ _% for this samp		was accep	otable.		
OF = Dilution Factor Used Approved By:	Palle		Date:	&/16/G	4	~~~ .	

