DEPUTY OIL & CHASTINSPECTOR I

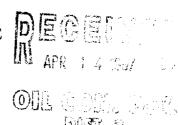
Meter Number:94804

INSPECTOR Location Name: JOHN SCHUMACHER #1E

Location:TN-30 RG-12 SC-08 UL-C

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.

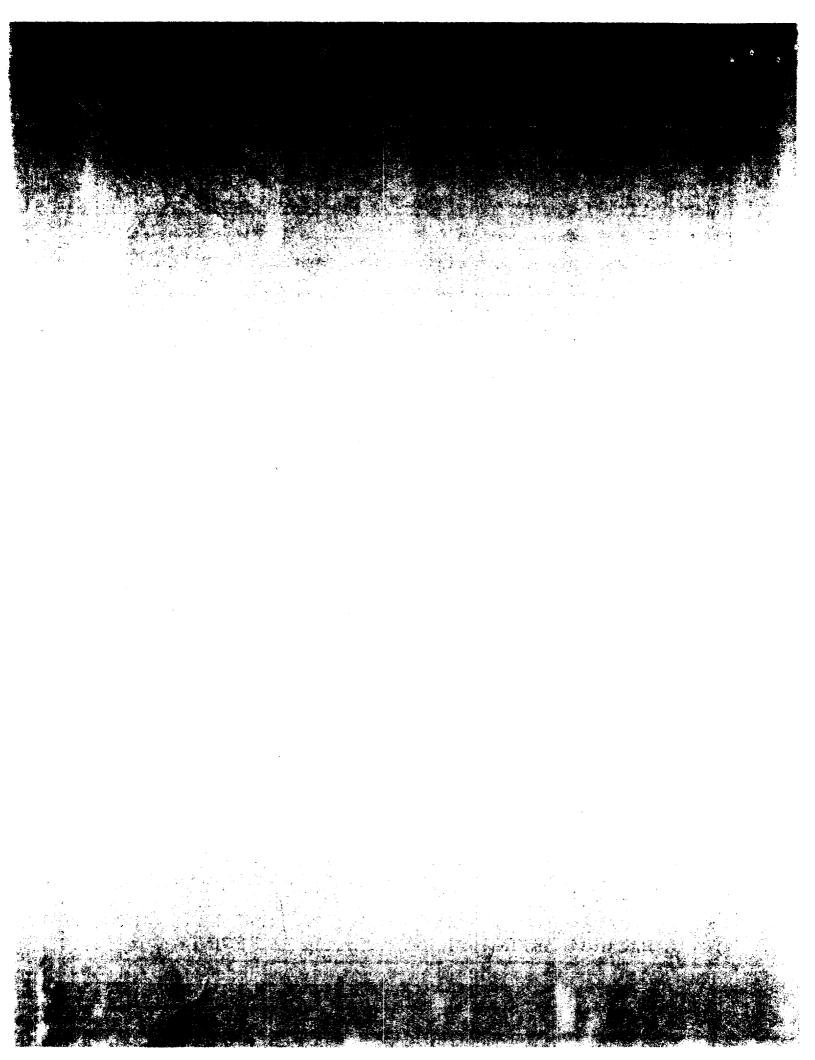
Natural process (bioremediation) are degrading the residual hydrocarbon to carbon dioxide and water and will continue until the source is gone, therefore minimizing any impact to the environment.

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.



GENERAL	Meter: 94804 Location: JOHN SCHUMACHER #18					
	Operator #: <u>0203</u> Operator Name: <u>Amoco</u> P/L District: <u>Kurz</u>					
	Coordinates: Letter: C Section 8 Township: 30 Range: 12					
	Or Latitude Longitude					
	Pit Type: Dehydrator X Location Drip: Line Drip: Other:					
	Site Visit Date: 4.1.94 Run: 02 63					
	NMOCD Zone: Inside Land Type: BLM ☑ (From NMOCD Vulnerable State ☐ Maps) Zone ☒ Fee ☐ Outside ☐ Indian ☐					
SITE ASSESSMENT	Depth to Groundwater Less Than 50 Feet (20 points) 50 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?					
	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: POINTS					
RKS	Remarks: Four PITS ON LOCATION. WILL CLOSE ONLY ONE					
REMARKS	PIT. PIT IS DRY					
RE						

	ORIGINAL PIT LOCATION
Noi	Original Pit: a) Degrees from North Footage to Wellhead90' b) Degrees from North Footage to Dogleg Dogleg Name c) Length:19' Width:17' Depth:3'
ORIGINAL PIT LOCATION	N WELLIFAR 226
REMARKS	Remarks: STARTED TAKING PICTURES AT 8:32 A.M. END DUMP
	Completed By: Signature Completed By: 4.1.94 Date



FIEL PIT REMEDIATION/CLOSU FORM

GENERAL	Meter: 94804 Location: John Schumach er#1E Coordinates: Letter: Section 8 Township: 30 Range: 12 Or Latitude Longitude Longitude Date Started: 5-10-94 Area: 02 Run: 63
FIELD OBSERVATIONS	Sample Number(s): \(\frac{VW53}{\text{53}} \) Sample Depth: \(\frac{3'}{\text{5}} \) Final PID Reading \(\frac{146}{\text{5}} \) Yes No Groundwater Encountered \(\begin{array}{cccccccccccccccccccccccccccccccccccc
URE	Remediation Method: Excavation
SOTO	Envirotech (1) (3) Tierra Other Facility (2) Name: Pit Closure Date: 5-10-94 Pit Closed By: 13£7
REMARKS	Remarks: EPN/4 Line Markers Hit sand stone at 3 ft.
]	Signature of Specialist: Vale Wilson

(SP3191) 04/07/94



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field IC			Lab ID		
SAMPLE NUMBER:	1100 53 94804 5-10-94		94	94512 N/A		
MTR CODE : SITE NAME:						
SAMPLE DATE TIME (Hrs):			15.55			
SAMPLED BY:	N/A					
ATE OF TPH EXT. ANAL.:		5.12.51				
ATE OF BTEX EXT. ANAL.:	NG		NA			
TYPE DESCRIPTION:			DIOWN	Brown Sund Clay		
REMARKS: _						
		RESULTS				
PARAMETER	RESULT UNITS		QUALIFIERS			
PARAINIETER	TIESOET	014110	DF	Ω	M(g)	V(ml)
BENZENE		MG/KG				
TOLUENE		MG/KG				
ETHYL BENZENE		MG/KG				
TOTAL XYLENES		MG/KG				
TOTAL BTEX		MG/KG				
TPH (418.1)	33C	MG/KG			2.08	28
HEADSPACE PID	146	PPM				
PERCENT SOLIDS	83.9	%				
	- TPH is by EPA Method 4		A Method 8020 – Ife All QA/QC	was accep	ntable.	

74/05/12 13:16

Sample identification 745121

Initial mass of sample, g

Tolome of sample alter exchaction, mile noo

Tehnokeso Trydrocarbons, opm pri 864

 $(-1)^{-1}$ theorem we be hydrodensons (2030 cm-1)

