DEPUTY OIL & GAS INCRECTOR

DEC 3 0 1997

Meter Number:93088
Lecation Name:CORNELL A#1E
Location:TN-29 RG-12
SC-10 UL-N

NMOCD Zone: OUTSIDE Hazard Ranking Score: 00

2 - Federal

RECEIVED APR 1 4 1997

OIL CON. DIV

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

EPF5

GENERAL	Meter: 93088 Location: Cornell A # 18 Operator #: 0203 Operator Name: Amoco P/L District: KuTZ Coordinates: Letter: N Section 10 Township: 29 Range: 12 Or Latitude Longitude Pit Type: Dehydrator X Location Drip: Line Drip: Other: Site Visit Date: 3-17-94 Run: 02 02
SITE ASSESSMENT	NMOCD Zone: Inside Land Type: BLM State State Image: St
EMARKS	Remarks: DEHYDRATOR HAS NOT BEEN DISCONNECTED FROM PIT YET. SECOND PIT ON LOCATION THAT A SEPERATOR 6085 TO.

N. 19.	ORIGINAL PIT LOCATION
	Original Pit : a) Degrees from North <u>357°</u> Footage to Wellhead <u>116°</u> b) Degrees from North Footage to Dogleg
LOCATION	Dogleg Name c) Length : 16 Width : 16 Depth : 4'
PIT LOC	16 11
ORIGINAL P	116
ORIG	WEUNEAD
	Remarks: _STARTED TAKING PICTURES AT 11:06 A.MENDDUMP
\$.	
REL	
	Completed By: Signature Completed By: 3.17.94 Date

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 93066 Location: Cornell A IE Coordinates: Letter: N Section 10 Township: 29 Range: 12 Or Latitude Longitude Date Started: 11/18/94 Run: 02 02
FIELD OBSERVATIONS	Sample Number(s): 5 7 Feet Sample Depth: 5 Feet Final PID Reading 10 ppm PID Reading Depth 5 Feet Yes No Groundwater Encountered Approximate Depth Feet
CLOSURE	Remediation Method: Excavation
REMARKS	Remarks: Dug test tole to 5', thit sandstone, Took PiD sample, Closed pit. Signature of Specialist: (SP3191) 03/16/94



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Outside the GWV Zone

SAMPLE IDENTIFICATION

	Field	ID		Lab ID		
SAMPLE NUMBER: KD 37/			926490			
MTR CODE SITE NAME:	93088		N/A 1425			
SAMPLE DATE TIME (Hrs):						
SAMPLED BY:	N/A					
DATE OF TPH EXT. ANAL.:	NAL.: NIA		11.22.94 N/A			
ATE OF BTEX EXT. ANAL.:						
TYPE DESCRIPTION:						
		RESULTS				
PARAMETER	RESULT	UNITS	QUALIFIERS DF Q M(g)		V(mi)	
TPH (418.1)	/11	MG/KG			2.01	28
HEADSPACE PID	70	PPM				
PERCENT SOLIDS	91.2	%				
		TPH is by EPA Method	418.1			
rative: = Dilution Factor Used						
inroved By:			Date:	12-	6-9V	

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

Ferkin-Elmer Model 1600 FT-IR Analysis Report *************************

94/11/22 10:56

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> Samole identification 946490 l Inikial mass of sample, g 2.010 Wolling of sample after extraction, ml 28.000 Pointioum hydroterions, ppm 110.640

> > D: Catholesa nydropartons spectrum

Time: absorbance of tedrocarbone (2910 bm-1)

12:56

