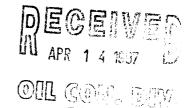
DEPUTY OIL & GAS INSPECTION

DEC 3 0 1997

Meter Number:93483
on Name:GALLEGOS CANYON UNIT 151E
Location:TN-29 RG-12
SC-21 UL-D
4 - Fee

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



Meter: 93483 Location: GALLEGOS CANYON UNIT # 1518 Operator #: 0203 Operator Name: AMOCO P/L District: KUTZ Coordinates: Letter: D Section 21 Township: 29 Range: 12 Or Latitude Longitude Pit Type: Dehydrator X Location Drip: Line Drip: Other: Site Visit Date: 4.5.94 Run: 02 33							
SITE ASSESSMENT	NMOCD Zone: Inside						
REMARKS	Remarks: TWO PITS ON LOCATION. WILL CLOSE ONLY ONE. PIT IS DRY. LOCATION IS UP IN HILLS.						

	ORIGINAL PIT LOCATION
LOCATION	Original Pit: a) Degrees from NorthFootage to Wellhead
ORIGINAL PIT LOC	18' 18' 18' 308°
	Remarks: STARTED TAKING PICTURES AT 1:04 P.M. END DUMP
REMARKS	
REM	
	Completed By: Signature Completed By: 4.5.94 Date

! [

FIELD IT REMEDIATION/CLOSUI FORM

GENERAL	Meter: 93483 Location: <u>Gallegos Canyon Unit # 151E</u> Coordinates: Letter: <u>D</u> Section <u>21</u> Township: <u>29</u> Range: 12 Or Latitude Longitude Date Started: <u>5-12-94</u> Area: <u>02</u> Run: <u>3-3</u>
FIELD OBSERVATIONS	Sample Number(s): $VW60$ Sample Depth: IC Feet Final PID Reading $I80$ PID Reading Depth IC Feet Yes No Groundwater Encountered \Box (1) \boxtimes (2) Approximate Depth Feet
CLOSURE	Remediation Method: Excavation
REMARKS	



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	SAMPLE	DENTIFICA	11014			
	ID		Lab ID			
SAMPLE NUMBER:				945142		
MTR CODE SITE NAME:	9348	3	ير	A/A		
SAMPLE DATE TIME (Hrs):	1		0810			
O/1111 220 0 1 1			A C	1. 101		
DATE OF TPH EXT. ANAL.:	5/16/94		5/16/94			
DATE OF BTEX EXT. ANAL.:			Course sand			
TYPE DESCRIPTION: [Λê		course	Jan C		
REMARKS:						
	F	RESULTS				
						
PARAMETER	RESULT	UNITS	QUALIFIERS			
1 Albamera.			DF	Q	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)	914	MG/KG		-	2.0	28
HEADSPACE PID	180	PPM				:
PERCENT SOLIDS	91.8	%				
The Surrogate Recovery was at Narrative:	TPH is by EPA Method	418.1 and BTEX is by % for this samp			otable.	

Approved By: July July On

Initial mass of sample, g

Volume of sample after extraction, ml 18.000

Patroleum hydrocarbons, ppm 714,475

14.475 | Nat absorbance of hydrocarbons (2930 cm-1) | 112

