Denny & Fout
Meter Number: 75353

DEPUTY OIL & GAS INSPECTOR Location Name: GALLEGOS CANYON UNIT #221
Location: TN-29 RG-12

SC-31 UL-H 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:

10⁻⁹ to 10⁻¹³ cm/sec Sandstone 10⁻¹² to 10⁻¹⁶ cm/sec Shale 10⁻¹² to 10⁻¹⁵ cm/sec 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.



FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: 75-353Location: Gallegos Canyon Unit No. 221 Operator #: 0203 Operator Name: Amoco P/L District: Angel Peak Coordinates: Letter: # Section 31 Township: 29 Range: 12 Or Latitude Longitude Pit Type: Dehydrator Location Drip: X Line Drip: Other: Site Assessment Date: 10/4/94 Area: 0/ Run: 6/
SITE ASSESSMENT	NMOCD Zone: (From NMOCD Maps) Inside Outside Outside
RKS	Remarks: Redline book: Outside, Vulnerable Zone Topo: Outside
REMARKS	Three pits, location drip pit isdry. Will close one pit.
RE	PUSH IN

FILLD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 75353 Location: Gallegos Canyon Duit #221 Coordinates: Letter: H. Section 31 Township: 29 Range: 12 Or Latitude Longitude Date Started: 10/21/94 Run: 01 61
FIELD OBSERVATIONS	Sample Number(s): KD 346 Sample Depth:5' Feet Final PID Reading590 PID Reading DepthFeet Yes No Groundwater Encountered
CLOSURE	Remediation Method : Excavation
-	Envirotech
REMARKS	Remarks: Dig test hole to 5', hit sandstone, Took Pi D seading closedpit,
. [
	Signature of Specialist:



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Outside the GWV Zone

SAMPLE IDENTIFICATION

	SAMPLE	IDENTIFICA	11014			
	Field	ID		Lab ID		
SAMPLE NUMBER:	KD 346		a46439			
MTR CODE SITE NAME: 75 353 SAMPLE DATE TIME (Hrs): 75 353			N/A /P50			
DATE OF TPH EXT. : ANAL.:	10-26	-94				•
ATE OF BTEX EXT. ANAL.:	2 Q V C		Brown fine rand & Clay			
TYPE DESCRIPTION:						
		RESULTS				
PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Ω	M(g)	V(ml)
TPH (418.1)	138	MG/KG		1	2.19	28
HEADSPACE PID	592	PPM				
PERCENT SOLIDS	91.8	%				
		TPH is by EPA Metho	a 418.1			
rative:						·
= Dilution Factor Used						
proved By:			Date:	11/3/4	iy	



