Meter Number:94138 DEPUTY On a CAS ENSPECTATION Name: GALLEGOS CANYON UNIT#182E

DEC 3 0 1897

Location:TN-28 RG-11 SC-19 UL-K 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:

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

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 EL MASC FIELD SERVICES

GENERAL	Meter: 94138 Location: Gallegos Canyon Unit Well No 182 E (TD) Operator #: 0203 Operator Name: Amoco P/L District: Angel Peak Coordinates: Letter: K Section 19 Township: 28 Range: 11 Or Latitude Longitude Pit Type: Dehydrator Location Drip: Line Drip: Other: Site Assessment Date: 9/13/94 Area: 01 Run: 63
SITE ASSESSMENT	NMOCD Zone: (From NMOCD (From NMOCD Maps) Inside Outside Outside (2) Indian
REMARKS	Remarks: Redline Book-Outside, Vulnerable Zone Topo-Duside Bots. Will closel. Pit dry
EMA	
R	PUSH-IN

FL _D PIT REMEDIATION/CLG_URE FORM

Meter: 94138 Location: Gallegos Canyon Unit Well # 182 E CTD. Coordinates: Letter: K Section 19 Township: 28 Range: 11 Or Latitude Longitude Date Started: 10/6/94 Run: 01 63 Sample Number(s): KD 321 Sample Depth: 4 Feet Final PID Reading 550 ppr PID Reading Depth 4 Feet Yes No Groundwater Encountered Approximate Depth Fee
Remediation Method: Excavation Onsite Bioremediation Backfill Pit Without Excavation Soil Disposition: Envirotech Other Facility Name: Pit Closure Date: 10/6/94 Pit Closed By: SET
Remarks: Bottom of Dit was Sandstone Scraped Sandstone TO get Sample.
Signature of Specialist: Why COMM (SP3191) 03/16/



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Outside the GWV Zone

SAMPLE IDENTIFICATION

_	Field		Lab ID			
SAMPLE NUMBER:	KD 32	946351				
MTR CODE SITE NAME:	94138	N/A				
SAMPLE DATE TIME (Hrs):	10/6/9	1050				
SAMPLED BY:		Α				
DATE OF TPH EXT. ANAL.:	16-16-94					
DATE OF BTEX EXT. ANAL.:	MIA	NIA			ı	
TYPE DESCRIPTION:	VG		Brown/9, 4	British / gray Fond & citary		
					1	
REMARKS:						
REMARKS.						
		RESULTS				
PARAMETER	RESULT	UNITS	QUALIFIERS			
PARAMETER	712002.		DF	Q	M(g)	V(ml)
TPH (418.1)	8200	MG/KG			1,04	28
HEADSPACE PID	550	PPM				
PERCENT SOLIDS	92.6	%				
		TPH is by EPA Metho	d 418.1			
Narrative:						
DF = Dilution Factor Used						
Approved By:			Date:	(O -	- (3-94	

94/10/10 14:43

Sample identification 946351

Initial mass of sample, g

Volume of sample after extraction, ml 28.000

Patroleum hydrocarbons, ppm 8201.504

Net absorbance of hydrocarbons (2930 cm-1)

