Tenny 3. Four Eccation Name: GALLEGOS CANYON UNIT 234

DEC 3 0 1997

Meter Number:75398

Location:TN-28 RG-13 SC-14 UL-A

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 10⁻¹² to 10⁻¹⁶ cm/sec 10⁻¹² to 10⁻¹⁵ cm/sec Sandstone Shale 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: 75398 Location: Gallegos Canyon Unit 234 Operator #: 0203 Operator Name: Amoco P/L District: Angel Peak Coordinates: Letter: A Section 14 Township: 28 Range: 13 Or Latitude Longitude Pit Type: Dehyarator Location Drip: Line Drip: Other: Site Assessment Date: 1/23/94 Area: 01 Run: 5/						
	NMOCD Zone: (From NMOCD Maps) Inside Outside Depth to Groundwater Less Than 50 Feet (20 points) The points of the points						
SITE ASSESSMENT	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? (1) YES (20 points) (2) NO (0 points)						
	Horizontal Distance to Surface Water Body Less Than 200 Ft (20 points) (1) 200 Ft to 1000 Ft (10 points) (2) Greater Than 1000 Ft (0 points) (3) Name of Surface Water Body						
	(Surface Water Body : Perennial Rivers,Major Wash,Streams.Creeks, Irrigation Canals,Ditches,Lakes,Ponds) Distance to Nearest Ephemeral Stream ☐ (1) < 100'(Navajo Pits Only) ☐ (2) > 100'						
	TOTAL HAZARD RANKING SCORE: POINTS						
RKS	Remarks: Redline Book: Outside Vulnerable Zone Topo: Outsido						
REMARKS	3 pits. Closel Line Drip is next to above meter location						
恶	PUSHZN						

	ORIGINAL PIT LOCATION
	Original Pit : a) Degrees from North <u>Jos</u> Footage from Wellhead <u>206'</u> b) Length : <u>19'</u> Width : <u>19'</u> Depth : <u>4'</u>
ORIGINAL PIT LOCATION	305°
	Remarks: Pictures @1432 hr 9-12 roll-1
ςs.	Pit is listed as line àrip on pit sheet
REMARKS	
I	
	Completed By:
	Long Chance 1/23/95
	() Signature Date

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FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 7539% Location: Gelleges Canyon Unit 234 Coordinates: Letter: A Section 14 Township: 28 Range: 13 Or Latitude Longitude Date Started: 7-14-95 Run: 01 61
FIELD OBSERVATIONS	Sample Number(s): MK 434 Sample Depth:/2 Feet Final PID Reading/2 Ppm
CLOSURE	Remediation Method: Excavation Onsite Bioremediation Backfill Pit Without Excavation Soil Disposition: Envirotech Other Facility Name:
REMARKS	Pit Closure Date: 7-14-95 Pit Closed By: Philip Remarks: Arrived took Fence down Dug Sample Hole Soil Gravish-black Strong Hydrocarbon odor
	Signature of Specialist: Marya Xillian (SP3191) 03/16/94



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Outside the GWV Zone

SAMPLE IDENTIFICATION

	SAMPLE	IDENTIFICA	TION			
	Field ID		Lab ID			
SAMPLE NUMBER:	MK 34		947001			
MTR CODE SITE NAME:	75398		N/A 13:00			
SAMPLE DATE TIME (Hrs):	7/14/95					
SAMPLED BY:	N/A					
DATE OF TPH EXT. ANAL.:	DATE OF TPH EXT. ANAL.: 7-18-95			7-18-95		
DATE OF BTEX EXT. ANAL.:	<u>۱۲ در ا</u>	214		A JA		
TYPE DESCRIPTION:	VG		Gray dx]		
REMARKS:		DEQUE TO				
		RESULTS				
PARAMETER	RESULT	UNITS	QUALIFIERS			1 7 5
			DF	<u> </u>	M(g)	V(ml)
TPH (418.1)	95.7	MG/KG			2.02	28
HEADSPACE PID	1260	PPM				
PERCENT SOLIDS	79.2	%				
		TPH is by EPA Method	418.1			
Narrative: OF = Dilution Factor Used						
DF = Dilution Factor Used				,		
Approved By:			Date:	7/20/91		



