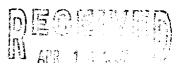
Meter Number:94435 Location Name:GALLEGOS CANYON UNIT#166E

Location:TN-28 RG-12 SC-34 UL-E 3 - Navajo NMOCD Zone:OUTSIDE Hazard Ranking Score:00



Approved

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:

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: 94-435 Location: Gallegos Canyon Unit Well No. 166E Operator #: 0203 Operator Name: Amoco P/L District: Angel Peak Coordinates: Letter: E Section 34 Township: 28 Range: 12 Or Latitude Longitude Pit Type: Dehydrator Location Drip: X Line Drip: Other: Site Assessment Date: 9/13/94 Area: 01 Run: 82
SITE ASSESSMENT	NMOCD Zone: (From NMOCD Maps) Inside Outside Outside (2) Indian Depth to Groundwater Less Than 50 Feet (20 points) Greater Than 100 Ft (0 points) 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? Horizontal Distance to Surface Water Body Less Than 200 Ft (20 points) (3) Horizontal Distance to Surface Water Body Less Than 200 Ft (10 points) (2) Greater Than 1000 Ft (10 points) (3) Name of Surface Water Body (Surface Water Body Surface Water Body 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: Realine Book - Outside Valentle 2 - Outside
REMARKS	Three pits, location drip pit is dry. Will close one pit.
ഥ	PUSH IN

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OCATION	ORIGINAL PIT LOCATION Original Pit: a) Degrees from North 27° Footage from Wellhead 122′ b) Length: 32′ Width: 31′ Depth: 3′
ORIGINAL PIT LOCATION	Z70/N Wellhead
REMARKS	Remarks: Pictures (D 1121 (1-4, Roll) Dump Truck Wellhand is almost hidden in the brush
	Completed By:
	Signature Date

FIELF PIT REMEDIATION/CLOSU FORM

GENERAL	Meter: 94435 Location: Gallegos Canyon unit well No. 166 E Coordinates: Letter: E Section 34 Township: 28 Range: 12 Or Latitude Long tude Date Started: 10-20-94 Area: E29 Run: 82
FIELD OBSERVATIONS	Sample Number(s): #322 Sample Depth: Feet Final PID Reading PID Reading Depth Feet Yes No Groundwater Encountered
CLOSURE	Remediation Method: Excavation
S	Other Facility (2) Name: Pit Closure Date: 16-20.99 Pit Closed By: B.E.F. Remarks: Some Like markers dus A test hole to 12'
REMARKS	Signature of Specialist: Ally Padulle

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FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Outside the GWV Zone

SAMPLE IDENTIFICATION

	Field	ID		Lab ID		
SAMPLE NUMBER:	KP 326	λ	946	9464 33		
MTR CODE SITE NAME:	9443			N/A		
SAMPLE DATE TIME (Hrs):	With CODE		1225			
SAMPLED BY:	Α					
DATE OF TPH EXT. : ANAL.:	10-26	6-94		<u>-</u>		
DATE OF BTEX EXT. ANAL.:	N (A		N A			
TYPE DESCRIPTION:	V G		Brown	Brown fine sand		
REMARKS: _		RESULTS				
PARAMETER	RESULT UNITS		DF	QUALIFIERS DF Q M(g) V(mi)		
TPH (418.1)	630	MG/KG			2.16	28
HEADSPACE PID	37	PPM				
PERCENT SOLIDS	93.7	%				
T DRODAY S		TPH is by EPA Meth	od 418.1			
arrative:						
F = Dilution Factor Used						
pproved By:) >-:		Date:	11/3	3/ <i>4K</i>	

Test Method for Oil and Grease and Petroleum Hydrocarbons in Water and Soil Perkin-Elmer Model 1600 FT-IR Analysis Report ********************** 94/10/26 11:00 Sample identification 946433 Initial mass of sample, g 2.160 Volume of sample after extraction, ml 28.000 Petroleum hydrocarbons, ppm Net absorbance of hydrocarbons (2730 cm-1) 0.093 530.008

