DEC & SASS.

Approved

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Meter Number:93899
Location Name:DAWSON FED #1M DK
Location:TN-27 RG-08
SC-26 UL-N
2 - Federal
NMOCD Zone:OUTSIDE
Hazard Ranking Score:00



OIL CON. DIV. Dist. 3

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

GENERAL	Meter: 93899 Location: DAWSON FEB. ** IM DK Operator #: 0203 Operator Name: Amoco P/L District: BALLARO Coordinates: Letter: N Section 26 Township: 27 Range: 8 Or Latitude Longitude Pit Type: Dehydrator X Location Drip: Line Drip: Other: Site Assessment Date: 1.25.95 Area: 07 Run: 92						
SITE ASSESSMENT	NMOCD Zone: (From NMOCD Maps) Inside Outside Land Type: BLM (1) Ctate (2) Fee (3) Indian Death to Croundwater						
	Depth to Groundwater Less Than 50 Feet (20 points) □ (1) 50 Ft to 99 Ft (10 points) □ (2) Greater Than 100 Ft (0 points) ☒ (3)						
	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						
REMARKS	Remarks: REDLINE : TOPO SHOW LOCATION OUTSIDE V.Z. 2 PITS ON LOCATION. DEHYDRATOR PIT BELONGS TO EANG. WILL CLOSE PIT.						
REN	Push IN						

ORIGINAL PIT LOCATION	ORIGINAL PIT LOCATION Original Pit: a) Degrees from North _64° Footage from Wellhead /25' b) Length: _26' Width: _23' Depth:3' Note the second secon
REMARKS	Remarks: PHOTOS-1247
	Completed By: 1.25.95 Signature Date

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 93899 Location: Dawson Fed #Im DK Coordinates: Letter: N Section 26 Township: 27 Range: B Or Latitude Longitude — Date Started: 6/2/65 Run: 07 92
FIELD OBSERVATIONS	Sample Number(s): 1949 Sample Depth: 6' Feet Final PID Reading 461 pp. PID Reading Depth 6' Feet Yes No Groundwater Encountered
CLOSURE	Excavation Approx. Cubic Yards Onsite Bioremediation Backfill Pit Without Excavation Tierra Other Facility Name: Pit Closed By: Pet Closed By:
REMARKS	Remarks: Dig test Hole to 6', Hit Sandstone, Took PiD Sample, Closel 7.t.
	Signature of Specialist: (SP3181) 03/16/84



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Outside the GWV Zone

	SAMPLE	DENTIFICA	HON			
	Field I	D		Lab ID		
SAMPLE NUMBER:	KD 47	KD 449		946866		
MTR CODE SITE NAME:	93899	93899		N/A		
SAMPLE DATE TIME (Hrs):	4-2-95		1100			
SAMPLED BY:		N/A				
DATE OF TPH EXT. ANAL.:	3-5	- بي				
DATE OF BTEX EXT. ANAL.:			•/		7 7 1	
TYPE DESCRIPTION:	V G-		Colorada		2.	
REMARKS:						
	R	ESULTS				
			T			
PARAMETER	PARAMETER RESULT UNIT			QUALIFIERS		
TPH (418.1)	599 wx 500 1 400 05	MG/KG	DF	Q	M(g)	V(ml)
HEADSPACE PID	461	РРМ			·	
PERCENT SOLIDS	847	%				
		TPH is by EPA Method	418.1			
Narrative:						
DF = Dilution Factor Used					_	
Approved By:	Laid.		Date:	4/8/9	<u>`</u>	

Test Method for Oil and Grease and Petroleum Hydrocarbons in Water and Soil

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Perkin-Elmer Model 1600 FT-IR

75/06/05 15:05

Sample identification 746866

Eritial mass of samula, g

Volume of sample after extraction, ml 38,000

Petroleum hydrocarbons, ppm 309.426 Net absorbance of hydrocarbons (2930 cm-1) 0.083

