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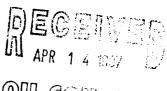
Meter Number:73834

Meter Number:73834

Meter Number:73834

DEC 22:199

Location:TN-30 RG-13
SC-11 UL-A
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:

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: 73834 Location: BELL FEDERAL GAS UNIT 8#1 Operator #: 0203 Operator Name: Amoco P/L District: Kuzz Coordinates: Letter: A Section II Township: 30 Range: 13 Or Latitude Longitude Pit Type: Dehyarator X Location Drip: Line Drip: Other: Site Visit Date: 3.23.94 Run: 02 31
ASSESSMENT	NMOCD Zone: Inside (From NMOCD Vulnerable Maps) Zone Outside Depth to Groundwater Less Than 50 Feet (20 points) 50 Ft to 99 Ft (10 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? YES (20 points) NO (0 points)
SITE	Horizontal Distance to Surface Water Body Less Than 200 Ft (20 points) 200 Ft to 1000 Ft (10 points) Greater Than 1000 Ft (0 points) Name of Surface Water Body (Surface Water Body: Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds) TOTAL HAZARD RANKING SCORE: ———————————————————————————————————
REMARKS	Remarks: FOUR PITS ON LOCATION. WILL CLOSE ONLY ONE. PIT IS DRY. (SP3190) 03/16/

	ORIGINAL PIT LOCATION					
LOCATION	Original Pit : a) Degrees from North <u>245°</u> Footage to Wellhead <u>173</u>					
	b) Degrees from NorthFootage to Dogleg Dogleg Name					
	c) Length : <u>iS´</u> Width : <u>\/S´</u> Depth : <u>_/′</u>					
CAI						
PIT LC						
ORIGINAL						
OR	15 WELLHEAD					
	15' WELLINEAD 265°					
	Remarks:					
	Remarks: STARTED TAKING PICTURES AT 1:44 P.M. END DUMP					
	STARTED TAKING PICTURES AT 1:44 P.M.					
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MARKS	STARTED TAKING PICTURES AT 1:44 P.M.					
REMARKS	STARTED TAKING PICTURES AT 1:44 P.M.					
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FIELD IT REMEDIATION/CLOSUF
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FIELD IT REMA
VW Vait B#
201 Feel Gus Gonge: 17
Township.
Meter: 23834 Location: Belfed Gus Gow Unit B# Meter: A Section II Township: 30 Range: 13 Coordinates: Letter: A Section II Township: 30 Latitude Area: 02 Run: 31
Coordinates: Letto Area: 02 Ruin
Meter: 73834 Locus Meter: 73834 Locus Longitude Longitude Or Date Started: 519/94 Area: 02 Run: 31 Page 102 Area: 519/94 Area: 519/94
B Date Started . Feet
Jul 39 Depth 5
Date St. Date St. Jul 36 Feet Sample Number(s): Jul 36 Feet PID Reading Depth 5 Feet Feet PID Reading Depth 5 Feet Feet
Sample Number: Sample Depth: Sampl
Sample Dept. Sample Dept. Yes (1) (2) Approximate Dept. Yes (1) (2) Approximate Dept.
Encountered
Sample Number: Sample Depth: Sample Depth: Sample Depth: Yes (1) (2) Approximate Depth Groundwater Encountered Groundwater Encountered
Ground Ground : (1) Approx. Cubic Yards (2)
Method: (1) Approx.
$I \longrightarrow I \cup $
Remediation Excavation Onsite Bioremediation Excavation Onsite Pit Without Excavation (3) Tierra
Onsite Biorch Without Excu.
Onsite Backfill Pit Without Soil Disposition: (1) Finvirotech (2) Name: Pit Closed By: Firefree Pit Closed By: Forture
Backing Soil Disposition: (1) Name: Pit Closed By: Facility 1/2/94
Soll Soll Envirotech Other Facility
Soil Disposition (2) Nome. 2 Envirotech Other Facility Other Facility Pit Closed Pit Clo
Pit Close
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Remain Remain Laboration Consciolist:
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Signature of Specialist: ——2—
Signus



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

	SAMPLE	IDENTIFICA	TION			
	Field	ID		Lab ID		
SAMPLE NUMBER:	VW:	945	945 102			
MTR CODE SITE NAME:	7383	NIA	NIA			
SAMPLE DATE TIME (Hrs):	5/9/91	09	0905			
SAMPLED BY:		SIA				
DATE OF TPH EXT. ANAL.:	5/10/94	5/10/94				
DATE OF BTEX EXT. ANAL.:	VG DIA		AIM			
TYPE DESCRIPTION:			Coarse	Dieyle	Brown Sci	nd
				J		
REMARKS:						
		RESULTS				
			<u> </u>			
PARAMETER	RESULT	UNITS	DF	QUALIFIERS Q M(g) V(m)		
BENZENE		MG/KG				
TOLUENE		MG/KG				
ETHYL BENZENE		MG/KG				
TOTAL XYLENES		MG/KG				
TOTAL BTEX		MG/KG				-
TPH (418.1)	2550	MG/KG			2.1	28
HEADSPACE PID	161	PPM				•
PERCENT SOLIDS	93.3	%				
The Surrogate Recovery was at	TPH is by EPA Method	418.1 and BTEX is by _% for this samp			ptable.	

************** Oil and Grease and Petroleum Hydrocarbons in Water and Soil * * Perkin-Elmer Model 1600 FT-IR Analysis Report 34/05/10 14:10 Sample identification Initial mass of sample, \mathfrak{g} 9 oluma of sample after extraction, $_{
m nl}$ Tetroleum hydrocarbons, ppm 1345,812 Their absorbance of hydrobarbons (2930 cm-1) " setroleum hydrocarbons spectrum 14:12 - 914 .300

2800

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