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Meter Number:72190 Location Name: BOLACK C LS #12 MV Location:TN-27 RG-08 SC-29 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:

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: 72190 Location: BOLACK C LS # 12 MU Operator #: 0203 Operator Name: Amoco P/L District: BMLARD Coordinates: Letter: A Section 29 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: 32					
SITE ASSESSMENT	NMOCD Zone:Land Type:BLM \boxtimes (1)(From NMOCDState(2)Maps)Inside(1)Fee(3)Outside(2)Indian					
	Depth to Groundwater Less Than 50 Feet (20 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? (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					
EMARKS	Remarks: REDUNE SHOWS INSIDE BUT TOPO SHOWS LOCATION OUTSIDE V.Z. 3 PITS ON LOCIOTION. UNUSED DEHY PIT BEHONGS TO EPNG. WILL CLOSE PIT.					

	ORIGINAL PIT LOCATION					
	Original Pit : a) Degrees from North <u>lose</u> Footage from Wellhead <u>95'</u> b) Length : <u>20'</u> Width : <u>17'</u> Depth : <u>2'</u>					
ORIGINAL PIT LOCATION	WELLHEAD 95' 20'					
REMARKS	Remarks: PHOTOS-1426					
-						
	Completed By:					
	Tarit Champson 1.25.95					
	Signature Date					

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 72190 Location: Bolgck C LS #12 mv Coordinates: Letter: A Section 29 Township: 27 Range: 8					
GEN	Or LatitudeLongitude					
	Date Started : 2-8-95 Run: 07 32					
SNC	Sample Number(s): <u>MK365</u>					
ATI	Sample Depth:& Feet					
OBSERVATIONS	Final PID Reading Feet PID Reading Depth _/2' Feet					
OBS	Yes No					
FIELD	Groundwater Encountered 🗌 🗵 Approximate Depth Feet					
FII						
1	Remediation Method :					
	Excavation Approx. Cubic Yards					
	Onsite Bioremediation					
LOSURE	Backfill Pit Without Excavation 🗵					
	Soil Disposition:					
C	Envirotech L Tierra Other Facility Name:					
	Pit Closure Date: <u>2-8-95</u> Pit Closed By: <u>BEJ</u>					
76						
REMARKS	Remarks: Arived Dug sample Hole pit appeared to be clean all the through soil Brown No Hydrocarbon odor					
3EM						
-						
	Signature of Specialist: Mogn Xielion					



FIELD SERVICES LABORATORY

ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Outside the GWV Zone

	SAMPLE	IDENTIFICA	TION		···	
	Field	d ID		Lab ID		,
SAMPLE NUMBER:	MK 3 6	MK 3 65 72190		१५५५० N/A		
MTR CODE SITE NAME:	7219					
SAMPLE DATE TIME (Hrs):	2-8-95		1015			-
SAMPLED BY:	N/A					-
DATE OF TPH EXT. ANAL.:	NIV		2-10-95 NIA Brown/Red Fine same			4
DATE OF BTEX EXT. ANAL.:						
TYPE DESCRIPTION:						
REMARKS:					·	
		RESULTS				
PARAMETER	RESULT	UNITS	d. O description	QUALIFIERS		
			DF	Q	M(g)	V(ml)
TPH (418.1)	99.3	MG/KG			2.03	28
HEADSPACE PID	3	PPM				
PERCENT SOLIDS	97.6	%				
		TPH is by EPA Metho	d 418.1			
arrative: F = Dilution Factor Used						
pproved By:			Date:	2-7	7 -7 <u>(</u>	

39.39

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