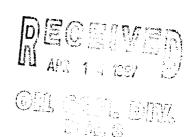
Meter Number: 70867

DEC 3 0 1397 Location Name: STATE GAS COM I #1

Location: TN-29 RG-09 SC-02 UL-K

1 - State

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 Sandstone 10⁻¹² to 10⁻¹⁶ cm/sec Shale 10⁻¹² to 10⁻¹⁵ cm/sec Clav

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: 70867 Location: STATE GAS COM I # Operator #: 0203 Operator Name: Amoco P/L District: Bloomfield Coordinates: Letter: X Section 2 Township: 29 Range: 9 Or Latitude Longitude Pit Type: Dehyarator X Location Drip: Line Drip: Other: Site Assessment Date: S.9.94					
SITE ASSESSMENT	NMOCD Zone: (From NMOCD (From NMOCD Maps) Inside Outside Outside (2) Indian Depth to Groundwater Less Than 50 Feet (20 points) Greater Than 1C0 Ft (0 points) (3) Wellhead Protection Area: Is it less than '000 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) Horizontal Distance to Surface Water Body Less Than 200 Ft (20 points) (2) Greater Than 1C00 Ft (10 points) (3) Name of 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: Depth to 10 Feet (2) State (2) (1) State (2) State (2) (2) No (1) State (2) (2) No (0 points) (3) Name of Surface Water Body (5urface Water Body: Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds) Distance to Nearest Ephemeral Stream (1) < 100'(Navajo Pits Only)					
REMARKS	Remarks: Three pits on Location, will close only one, pit is dry. Location is on top of Maneanares Mesa, Redune and topo ponfirmed location to be outside the V.Z					

FIEL PIT REMEDIATION/CLOSU. _ FORM

GENERAL	Meter: 70867 Location: State Gos com I # 1 Coordinates: Letter: K Section 2 Township: 29 Range: 9 Or Latitude Longitude Date Started: 6727-94 Area: 10 Run: 31
FIELD OBSERVATIONS	Sample Number(s): MK 43 Sample Depth: T Feet Final PID Reading 347 Yes No Groundwater Encountered (1) (1) (2) Approximate Depth Feet
CLOSURE	Remediation Method: Excavation
OFWARKS	



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	MK 43	945531
MTR CODE SITE NAME:	70867	N/A
SAMPLE DATE TIME (Hrs):	6-27-94	1325
SAMPLED BY:		N/A
DATE OF TPH EXT. ANAL.:	6-30-94	6/30/94
DATE OF BTEX EXT. ANAL.:	NIA	N N/A
TYPE DESCRIPTION:	V G-	The Monn Salid

RESULTS

PARAMETER	RESULT	RESULT UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE		MG/KG				
TOLUENE		MG/KG				
ETHYL BENZENE		MG/KG				
TOTAL XYLENES		MG/KG				
TOTAL BTEX		MG/KG				
TPH (418.1)	397	MG/KG			2.17	28
HEADSPACE PID	347	PPM				
PERCENT SOLIDS	94.3	%				

- TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020 -

٦e	Surrogate	Recovery	was	at

NA

% for this sample All QA/QC was acceptable.

arrative:

F = Dilution Factor Used

\ 1

REMARKS:

1.00

7/4/611

7.3.27

DEC 3 0 1997

Meter Number:90013 DEPUTY OIL & GAS INSPECTOR Location Name: STATE GAS COM I #1A Location:TN-29 RG-09 SC-02 UL-P

1 - State

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 Clav

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 EL PASO FIELD SERVICES

GENERAL	Meter: 90013 Location: STATE GAS COM I # 1A Operator #: 0203 Operator Name: Amoco P/L District: Ricomfield Coordinates: Letter: P Section 2 Township: 29 Range: 9 Or Latitude Longitude Pit Type: Dehydrator Location Drip: Line Drip: Other: Site Assessment Date: 5.9.94 Area: 10 Run: 31				
MENT	NMOCD Zone: (From NMOCD Maps) Inside Outside Outside Depth to Groundwater Less Than 50 Feet (20 points) Feet (1) (2) Indian Depth 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?				
SITE ASSESSMENT	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 (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: (5) POINTS				
REMARKS	Remarks: Two PITS ON LOCATION, WILL CLOSE ONE OF THEM, PIT IS DRY, LOCATION IS ON TOP OF MANZANARES MESA. REDLINE AND TOPO CONFIRMED LOCATION TO BE BUTSIOS THE V.Z. PUSH IN				

-1-

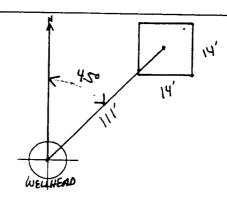
(SP3190) 04/08/94

REMARKS

ORIGINAL	PIT	LOCATION	J
OMMUNICAL	4 4 4	LUCATION	٧

Original Pit : a) Degrees from North 45° Footage from Wellhead 111'

b) Length : <u>14'</u> Width : <u>14'</u> Depth : <u>2'</u>



Remarks:
TOOK PICTURES AT 2:09 P.M.
END DUMP
Completed By:

Signature

5.9.94

Date

FIEL PIT REMEDIATION/CLOSU_ FORM

GENERAL	Meter: 900/3 Location: STATC GAS COM T HIA Coordinates: Letter: P Section 2 Township: 29 Range: 9 Or Latitude Longitude Date Started: 1-17-54 Area: 10 Run: 31
FIELD OBSERVATIONS	Sample Number(s): MK46 MK47 MK48 Sample Depth: 7 Feet Final PID Reading PID Reading Depth Feet Yes No Groundwater Encountered [(1) [(2) Approximate Depth Feet
CLOSURE	Remediation Method: Excavation
REMARKS	Remarks: EPNGliNes mark 3011 Gray Slight Hydroxider odor Hit Sand Stone 7' Signature of Specialist: Marga Killian



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field	ID		Lab ID		
SAMPLE NUMBER:	mk 46		945	534		
MTR CODE SITE NAME:	90013			N/A		
SAMPLE DATE TIME (Hrs):	6-27-9	1	153	<u> </u>		
SAMPLED BY:			I/A			
DATE OF TPH EXT. ANAL.:	6-30-	74	6/3	0/94		
DATE OF BTEX EXT. ANAL.:	NIA		NIA			
TYPE DESCRIPTION:	VG.		Poronuna C	Revoun chap / Sand stone		
REMARKS:				<u> </u>		
		RESULTS				
						
PARAMETER	RESULT	UNITS		QUALIF		
			DF	Q	M(g)	V(ml)
BENZENE		MG/KG				
TOLUENE		MG/KG				
ETHYL BENZENE		MG/KG				
TOTAL XYLENES		MG/KG				
TOTAL BTEX		MG/KG				
TPH (418.1)	1470	MG/KG			7.07	28
HEADSPACE PID	174	PPM				
PERCENT SOLIDS	P9.1	%				
ne Surrogate Recovery was at arrative:	- TPH is by EPA Method 4	18.1 and BTEX is by EPA % for this sampl		was accep	table.	

Date: 7/1/91-

F = Dilution Factor Used

1708/30 13:TT

Famcle identification tess

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Francisco Francis Styrid mercial milatina 🖷 🔎 🗆 ppm

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17:17

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