DEC 21 1998

W O HUGHES #4 Y Meter/Line ID - 72940

SITE DETAILS

Legals - Twn: 24 Rng: 03 NMOCD Hazard Ranking: 40 Operator: MERIDIAN OIL INC

Sec: 07

Unit: O

Land Type: 4 - F Pit Closure Date: 10/10/94 国际

RATIONALE FOR RISK-BASED CLOSURE:

The above mentioned production pit was assessed and ranked according to the criteria in the New Mexico Conservation Division's Unlined Surface Impoundment Closure Guidelines.

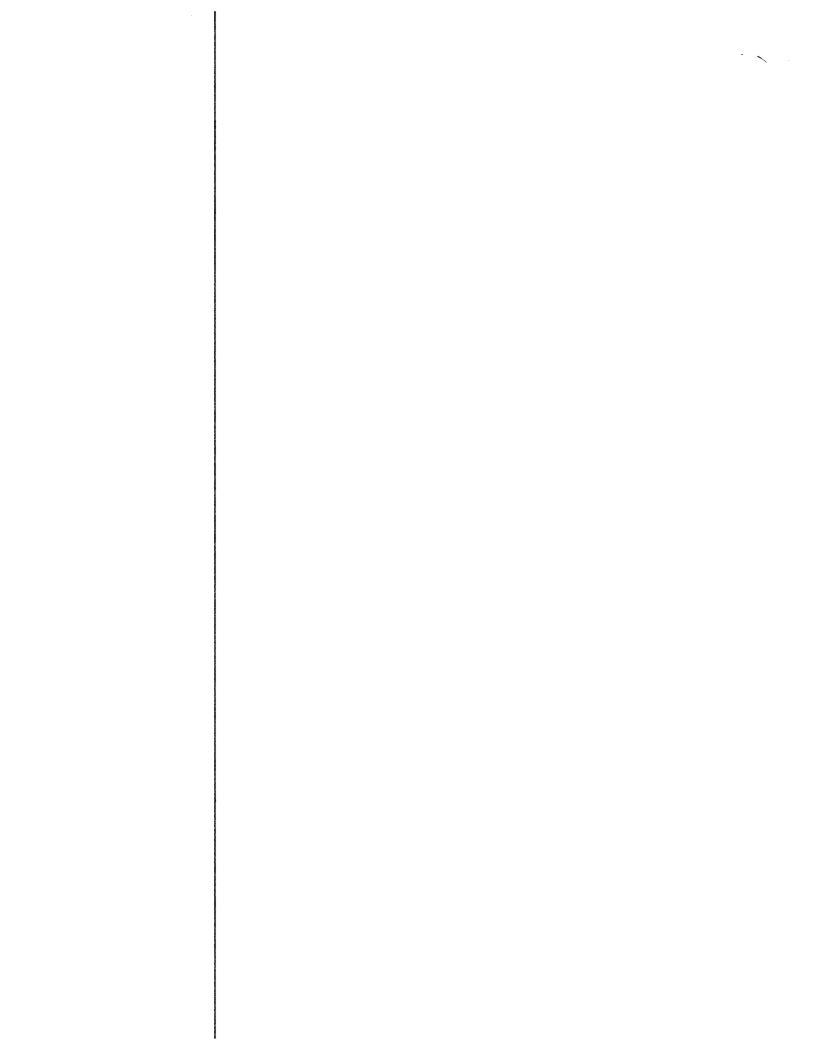
The primary source, discharge to the pit, has been removed. There has been no discharge to the production pit for at least five years and the pit has been closed for at least three years.

The production pit has been remediated to the practical extent of the trackhoe or to the top of bedrock. Initial laboratory analysis has indicated that the soil remaining at the bottom of the excavation is above standards based on the hazard ranking score. Contaminated soil was removed and transported to an approved landfarm for disposal. The initial excavation was backfilled with clean soil and graded in a manner to divert precipitation away from the excavated area. Any rainfall that does infiltrate the ground surface must migrate through clean backfill before reaching any residual hydrocarbons remaining in the soil. Therefore, further mobility of residual hydrocarbons is unlikely.

Since the soil samples from the initial excavation were above standards, a test boring was drilled and a sample was collected to evaluate the vertical extent of impact to soils. Test boring sample results indicated soils below standards beneath the original excavation.

El Paso Field Services Company (EPFS) requests closure of the above mentioned production pit location for the following reasons:

- Discharge to the pit has not occurred in over five years and the pit has been closed for over three years.
- The bulk of the impacted soil was removed during the initial excavation.
- The excavation was backfilled with clean soil and graded to divert precipitation away from the excavation area.
- All source material has been removed from the ground surface, eliminating potential direct contact with livestock and the general public.
- Groundwater was not encountered in the initial excavation or test boring; therefore, impact to groundwater is unlikely.
- Soil samples collected beneath the initial excavation were below standards.
- No potential receptors are within 1,000 feet of the site.
- Residual hydrocarbons remaining in the soil at the bottom of the initial excavation will naturally degrade time with minimal risk the environment.



FIELD PIT SITE ASSESSMENT FORM

1								
	GENERAL	Meter: 72940 Location: HUGHES 47 Operator #: 2999 Operator Name: MDT P/L District: DJITO Coordinates: Letter: D Section 7 Township: 24 Range: 3 Or Latitude Longitude Pit Type: Dehydrator Location Drip: ✓ Line Drip: Other: Site Assessment Date: 8/2/94 Area: 08 Run: 83						
		NMOCD Zone: (Erom NMOCD Land Type: BLM (1)						
		Ctata (2)						
		inside X (1) Fee X (3)						
		Outside (2) Indian						
		Depth to Groundwater						
		Less Than 50 Feet (20 points) 🛛 (1) 50 Ft to 99 Ft (10 points) 🔲 (2)						
	İ	Greater Than 100 Ft (0 points) (3)						
E	<u>.</u>	Wellhead Protection Area:						
	Z I	Is it less than 1000 ft from wells aprises						
	N N							
	ASSESSMENT	domestic water source? (1) YES (20 points) (2) NO (0 points)						
1		Horizontal Distance to Surface Water Rod-						
E	SIIE	Less Than 200 Ft (20 points) 🛛 (1) 200 Ft to 1000 Ft (10 points) 🗌 (2)						
5	77	Greater Than 1000 Ft (0 points) 🗍 (3)						
	ı	Name of Surface Water Body Carabalarya						
		(Surface Water Body: Perennial Rivers Maior Waster)						
	I							
		Distance to Nearest Ephemeral Stream (1) < 100'(Navajo Pits Only)						
		\sqcup (2) > 100'						
-		TOTAL HAZARD RANKING SCORE: 40 POINTS						
REMARKS		Remarks: Redline Book - Inside Vulgerable Zone Tage - Inside						
MA		pit. Willclose Pit day						
R		DIGHHAUL						
1.80.50	-	-1- (COTTION) OF (COTTION)						

		ORIGINAL PIT LOCATION
	Original Pit : c) Degrees from North <u>Log®</u> Footage from Wellhead <u>100</u>
	<u>t</u>) Length : 15 Width : 15 Depth : 3
NO		
ATI		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
LOCATION		
		1090
ORIGINAL PIT		
INA		Wellhead
3IG]		100,
10		
	Remarks :	
	Pictures @ 1012	
N N		
REMARKS		
EM4		
<u> </u>		
:		
	Completed By:	
	\cap	
	1	Dang 8/2/94
1		Signature Date
	J	Date

PHASE I EXCAVATION

FILLD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 72940 Location: Hughes 47 Coordinates: Letter: D Section 7 Township: 24 Range: 3 Or Latitude Longitude Date Started: 10-10-94 Run: 08 83					
FIELD OBSERVATIONS	Sample Number(s): 12' Feet Sample Depth: 12' Feet Final PID Reading 12' Feet Yes No Groundwater Encountered					
CLOSURE	Remediation Method: Excavation Onsite Bioremediation Backfill Pit Without Excavation Soil Disposition: Envirotech Other Facility Name: Pit Closure Date: 10-10-94 Pit Closed By: 13.ET					
REMARKS	Remarks: Some Line markers. Started Remadiating to 12' Soil dark gray. At 12' Soil Still the Same At Bottom of Pir.					
	Signature of Specialist: Kelly Padille					



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KP 305	946392
MTR CODE SITE NAME:	72940	N/A
SAMPLE DATE TIME (Hrs):	10-10-94	1120
SAMPLED BY:		N/A
DATE OF TPH EXT. ANAL.:	16-17-94	10 - 17 - 9 -
DATE OF BTEX EXT. ANAL.:	10-19-94	10-23-94
TYPE DESCRIPTION:	VC	Errory Clau

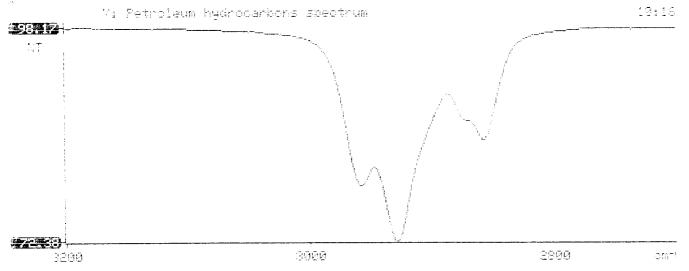
REMARKS	 	

RESULTS

PARAMETER	RESULT	UNITS		QUALIFIE	RS	
			DF	Q	M(g)	V(ml)
BENZENE	۵۰5۵	MG/KG	20			
TOLUENE	23	MG/KG	20			
ETHYL BENZENE	40.5	MG/KG	20			
TOTAL XYLENES	7.8	MG/KG	20			
TOTAL BTEX	31.9	MG/KG				
TPH (418.1)	309	MG/KG			2.ac	ત્રેહ
HEADSPACE PID	484	PPM				1, 4 1, 4, 4
PERCENT SOLIDS	75.5	%				

-- TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020 --% for this sample All QA/QC was acceptable. The Surrogate Recovery was at Narrative: DF = Dilution Factor Used

Approved By: ____





ATI I.D. 410405

October 26, 1994

El Paso Natural Gas Company P.O. Box 4990 Farmington, NM 87499

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On 10/18/94, Analytical Technologies, Inc., (ADHS License No. AZ0015), received a request to analyze non-aqueous samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

If you have any questions or comments, please do not hesitate to contact us at (505) 344-3777.

Letitia Krakowski, Ph.D.

Project Manager

MR:jt

Enclosure

H. Mitchell Ruberstein, Ph.D. Laboratory Manager



GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)

CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 410405

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE

SAMPLI ID. #		MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	946392	NON-AQ	10/10/94	10/19/94	10/23/94	20
02	946393	NON-AQ	10/10/94	10/19/94	10/23/94	20
03	946394	NON-AQ	10/11/94	10/19/94	10/23/94	20
PARAM	ETER		UNITS	01	02	03
BENZE	NE		MG/KG	0.55	3.2	<0.5
TOLUE	NE		MG/KG	23	26	3.2
ETHYL	BENZENE		MG/KG	<0.5	<0.5	1.6
TOTAL	XYLENES		MG/KG	7.8	96	23
SURRO	GATE:			7.0	140+	71

BROMOFLUOROBENZENE (%)

76 149* 71

*OUTSIDE ATI CONTROL LIMITS DUE TO MATRIX INTERFERENCE

PHASE II

RECORD OF SUBSURFACE EXPLORATION

PHILIP ENVIRONMENTAL

4000 Monroe Road

Farmington, New Mexico 87401 (505) 326-2262 FAX (506) 326-2388

Elevation Borehole Location **GWL Depth** Logged By Drilled By Date/Time Started Date/Time Completed 3/25/95

Borehole #	<u> </u>
√ell#	
300	of

Project Name Project Number **Project Location**

Well Logged By Personnel On-Site Contractors On-Site

Client Personnel On-Site **Drilling Method**

Air Monitoring Method

	Sample Sample Type w		Lithology Change	Ai L BZ	r Monigor Units: 110 BH	L S S	Drilling Conditions & Blow Counts		
0	15-17		Br Clay, sriff, med plastic, slowist H Br silty Clay, med stiff, med plast slowist TDB171			0			-1232 hr -1237

15-17' Clay contining layer. Will bennenise backfill 2' 4h 17-19' sample submitted to lab (BTEX, Tett) CMC 2b Comments: **Geologist Signature**



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	cm c 26	946837
MTR CODE SITE NAME:	72440	N/A
SAMPLE DATE TIME (Hrs):	5-25-95	1237
SAMPLED BY:		N/A
DATE OF TPH EXT. ANAL.:	5-30-95	5-30-95
DATE OF BTEX EXT. ANAL.:	6-1-95	6-2-95
TYPE DESCRIPTION:	VG	Rec ormen Some Clien

REMARKS:	_
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RESULTS

PARAMETER	RESULT UNITS	QUALIFIERS				
PANAMETER			DF	Q M(g)	V(ml)	
BENZENE	40.025	MG/KG	١	i		
TOLUENE	10.025	MG/KG	,	:		
ETHYL BENZENE	40.025	MG/KG)			
TOTAL XYLENES	40.025	MG/KG	,			
TOTAL BTEX	40.10	MG/KG				
TPH (418.1)	wies 54.0	MG/KG		2.07	28	
HEADSPACE PID	14	PPM				
PERCENT SOLIDS	92.5	%				

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

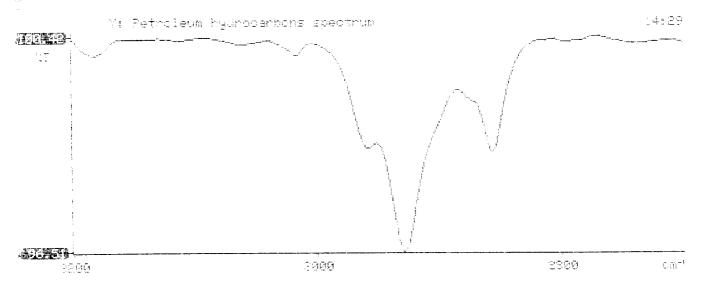
The Surrogate Recovery was at	95	% for this sample	All QA/QC was acceptable.
Alarrative:			

ATI Result Attached



6/28/95

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Test Method for a land Brease and Fatroleum Hydrocarbons a in Water and Soil and Great Report and Soil a Mater and Soil a Report a land Break at a sample a
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ATI I.D. 506301

June 8, 1995

El Paso Natural Gas Co. P.O. Box 4990 Farmington, NM 87499

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On 06/01/95, Analytical Technologies, Inc., (ADHS License No. AZ0015), received a request to analyze non-aqueous samples. samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

If you have any questions or comments, please do not hesitate to contact us at (505) 344-3777.

Letitia Krakowski, Ph.D. Project Manager

MR:jt

Enclosure

H. Mitchell Rubenstein, Ph.D.

Laboratory Manager



GAS CHROMATOGRAPHY RESULTS

TEST : BTEX, MTBE (EPA 8020)

CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 506301

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE

PRODEC	I WHILL . I I I OHO					
SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	946835	NON-AQ	05/25/95	06/01/95	06/02/95	1
02	946836	NON-AQ	05/25/95	06/01/95	06/02/95	1
03	946837	NON-AQ	05/25/95	06/01/95	06/02/95	1
PARAMI	ETER		UNITS	01	02	03
BENZE	NE		MG/KG	<0.025	<0.025	<0.025
TOLUE	NE		MG/KG	<0.025	<0.025	<0.025
ETHYL	BENZENE		MG/KG	<0.025	<0.025	<0.025
	XYLENES		MG/KG	<0.025	<0.025	<0.025
	L-t-BUTYL ETHER		MG/KG	<0.12	<0.12	<0.12
SURRO	GATE:					
BROMO	FLUOROBENZENE (%)			100	92	95

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