DEC 2 1 1993

Legals - Twn: 24

NMOCD Hazard Ranking: 40

Operator: MERIDIAN OIL INC

LINDRITH #39 Meter/Line ID - 73047 DEGETVED N JUL 2 1998

SITE DETAILS

- Rng: 03 Sec: 16

16 Unit: A

Land Type: 4 - Fee

Pit Closure Date: 10/12/94

#### 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 in time with minimal risk to the environment.

## FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: 73047 Location: Lindrith # 39 Operator #: 2999 Operator Name: MOT P/L District: DJ )TO Coordinates: Letter: A Section 16 Township: 24 Range: 3
GE	Latitude   ongitude
	I fit type: Denydrator   Location Dring // Line Dring
	Site Assessment Date: 8/2/94 Area: 08 Run: 83
	NMOCD Zone:  (From NMOCD Land Type: BLM [1]
İ	(From NMOCD)
	Maps) Inside $\square$ (1) Fee $\square$ (3)
	Outside (2) Indian
	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)
L	Wellhead Protection Area:
WE	Is it less than 1000 ft from wells, springs, or other sources of
ESS	fresh water extraction?, or; Is it less than 200 ft from a private domestic water source? (1) YES (20 points) (2) NO (0 points)
ASSESSMENT	Horizontal Distance to Santa w to -
	Horizontal Distance to Surface Water Body Less Than 200 Ft (20 points) 💢 (1)
SITE	200 Ft to 1000 Ft (10 points) (2)
01	Greater Than 1000 Ft (0 points) (3)
	Name of Surface Water Body CARALLANA
	(Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks,
	I margin oditatorottottos Eakes Bunder
	Distance to Nearest Ephemeral Stream (1) < 100'(Navajo Pits Only)
	TOTAL HAZARD RANKING SCORE: 40 POINTS
S	- CANTO
RK	Remarks: Redline Book-Traide Vulnerable Zone Tape- I aside
REMARKS	lost. Will close. Pit day has v. Small amount of liquidinit
2	DIGTHANT

N	Original Pit	ORIGINAL PIT LOCATION  : a) Degrees from North 166° Footage from Wellhead 126' b) Length : 19' Width : 17' Depth : 4'
ORIGINAL PIT LOCATION		Nellheat 166°
	Remarks:	27
REMARKS		
R		
	Completed E	y:
	Con	Signature $8/\lambda/94$

I

# PHASE I EXCAVATION

## Fi\_\_D PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 73047 Location: Lindvith #39  Coordinates: Letter: A Section K Township: 24 Range: 3  Or Latitude Longitude  Date Started: 10/12/94 Run: 08 83
FIELD OBSERVATIONS	Sample Number(s): KD335  Sample Depth: 12 Feet  Final PID Reading 476 PM PID Reading Depth 12 Feet  Yes No  Groundwater Encountered Approximate Depth Feet
CLOSURE	Remediation Method:  Excavation  Onsite Bioremediation  Backfill Pit Without Excavation  Soil Disposition:  Envirotech  Other Facility  Name:  Pit Closure Date: 10/11/94  Pit Closed By: BET
REMARKS	Remarks: Excavated pit to 12', Took fin Sample, Closed pit.
	Signature of Specialist:

(SP3191) 03/16/94



## FIELD SERVICES LABORATORY ANALYTICAL REPORT

## PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

### SAMPLE IDENTIFICATION

Field ID	Lab ID
KD 335	946412
73 047	N/A
10-12-94	1300
	N/A
10-17-94	10-17-94
10-19-94	10-21-9-
٧ <b>ر</b>	Links Fray Sand + Clay
	ND 338 73 047 10-12-94 10-17-94 10-19-94

	RESULTS	

REMARKS:

DADAMETER	RESULT	RESULT UNITS		QUALIFIERS						
PARAMETER	NEGOET	<b>5</b> 11 <b>5</b>	DF	Q	M(g)	V(ml)				
BENZENE	J.7	MG/KG	20							
TOLUENE	89	MG/KG	20							
ETHYL BENZENE	11	MG/KG	20							
TOTAL XYLENES	1)0	MG/KG	20							
TOTAL BTEX	217 "bolgs	MG/KG								
TPH (418.1)	5710	MG/KG			1.61	28				
HEADSPACE PID	476	PPM								
PERCENT SOLIDS	90:2	%								

-- TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020 -
The Surrogate Recovery was at 99 % for this sample All QA/QC was acceptable.

Narrative:

AT) results with arched,

DF = Dilution Factor Used

Approved By:

Date: 4/3/4/

3969

196

13:03

±100 €

2960



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 Rubenstein, Ph.D.

Laboratory Manager



#### GAS CHROMATOGRAPHY RESULTS

CLIENT

TEST : BTEX (EPA 8020)

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

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE

SAMPI ID. #	<del></del>	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
19	946410	NON-AQ	10/12/94	10/19/94	10/21/94	20
20	946411	NON-AQ	10/12/94	10/19/94	10/20/94	1
21	946412	NON-AQ	10/12/94	10/19/94	10/21/94	20
PARAN	METER		UNITS	19	20	21
BENZI	ENE		MG/KG	<0.5	<0.025	6.7
TOLUE	ENE		MG/KG	5.5	<0.025	89
ETHYI	LBENZENE		MG/KG	3.2	<0.025	11
TOTAI	L XYLENES		MG/KG	76	<0.025	110
SURRO	OGATE:					
BROM	OFLUOROBENZENE (%)			121*	97	99

<sup>\*</sup>OUTSIDE ATI QUALITY CONTROL LIMITS DUE TO MATRIX INTERFERENCE

# PHASE II

	•

#### RECORD OF SUBSURFACE EXPLORATION

#### PHILIP ENVIRONMENTAL

4000 Monroe Road

Farmington, New Mexico 87401 (606) 326-2262 FAX (606) 326-2388

Elevation

Borehole Location

GWL Depth

Logged By

CM CHANCE

Drilled By

Date/Time Started

Date/Time Completed

Logged By

Date/Time Completed

Borehole #		BH-1
Well #		
Page	١	of J

Project Name EPNG PITS

Project Number 14509 Phase 6000 / 77

Project Location Lindcith Unit #39 785 7.3 045

Well Logged By
Personnei On-Site
Contractors On-Site
Client Personnel On-Site

 Drilling Method
 4 1/4" ID HSA

 Air Monir oring Method
 PID, CGI

									1	
			Sample			Depth	4.			Dallia - Cardinia
Depth	Sample	Sample	Type &	Sample Description	uscs	Lithology		Monitorii		Drilling Conditions & Blow Counts
(Feet)	Number	Interval	Recovery	Classification System: USCS	Symbol	Change	Units:		<u>s</u>	a Blow Counts
			(inches)			(feet)	BZ	ВН	HS	
°				Backfill +012'		1 1	1			
L .							1	İ		
<u> </u>								l		
i L								•		
l L										
5		}					1			
				'				1		
		Ì								
10	1				,	1				
	Ì		ĺ		l					
<del> </del>	į	1	ļ							
<del> </del>			İ .	a constant						
15	1	11.47	9"	Grasily SAND, vf-Found, loose, slady, older			0	<b>እ</b> ሄ	270	-12>6 hm .
l	1 ′	,3 . ,	1	DADE					1013	
$\vdash$	1	1			ļ					
i		1	-						1	<b>i</b>
<b> </b>					Ì				3.5	-1307
l	_		1 L"	Gry silry SAND, V++ sand, mek			ש	130	330	-1307
20	12	190-11-2		dense stmoist, alon	1				474	
l				Gry silry SAND, vf-Fsand, med dense, sl moist, DD- Gry silry SAND, vf-Fsand, dense, sl moist					_,	1320 - Refusal @ 201
<b>│                                    </b>	د ا	23 -24	3"	Gry Silvy SA(100) War sand, delog		1	0	81	35	- Refusal @201
l				sl moist	1				304	
<b>!</b>		İ	Į.		ļ	}				
25			Ì	TOB 24'	ļ		1		l	1
L					ì			i		
	ļ	1		<u> </u>	1		1		1	İ
	1				l		1		l	
	Ì		1					1		
<b> </b>	1	Į.	ļ		1		1	1	ļ	İ
1 -			1		i			1		
					1	]		ļ		
	1	1	1		1		1	1	1	
-					1					
35					1					
I ├── °°		1			1					1
1 <del> -</del>	1		1							
1 -	1				1				1	
-			1		1					
<del>  40</del>	1	1			1		1			
	1	1		1	1					

Comments:	Refusal Qdy', 23-24' sample (CMC43) sent-alab (BTEX + TPH). BH growted	_
	+o sufface	-
	Geologist Signature	



Thase I

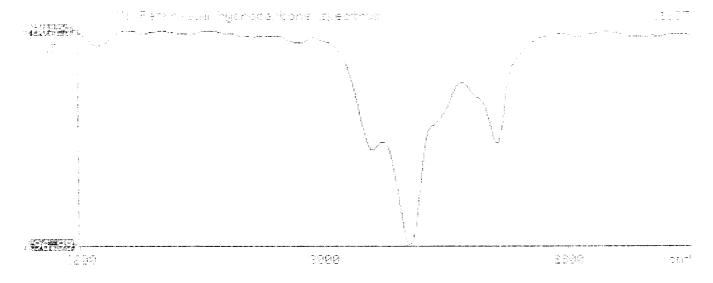
## FIELD SERVICES LABORATORY ANALYTICAL REPORT

### PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION											
	Field	Lab ID									
SAMPLE NUMBER:	cm c 43		946884								
MTR CODE   SITE NAME:	73047		N/A								
SAMPLE DATE   TIME (Hrs):	6-7-95		1320								
SAMPLED BY:		N/A	4								
DATE OF TPH EXT.   ANAL.:	6-4-95		6-9-95								
DATE OF BTEX EXT.   ANAL.:	6-14-95		6-15-95								
TYPE   DESCRIPTION:	VG		Light grey sand								
			· ·	į							
REMARKS:											
		RESULTS	<del></del> -								
	RESULT UNITS	LINITS	QUALIFIERS			49 A.C.					
PARAMETER			DF	Q	M(g)	V(ml)					
BENZENE	40.025	MG/KG	1								
TOLUENE	10.025	MG/KG	1								
ETHYL BENZENE	10.025	MG/KG									
TOTAL XYLENES	0.031	MG/KG	1								
TOTAL BTEX	0.106	MG/KG				_					
TPH (418.1)	32.7	MG/KG			2.0	28					
HEADSPACE PID	304	PPM				A Section 1					
PERCENT SOLIDS	9017	%									
	TPH is by EPA Method	d 418.1 and BTEX is by E			. 11.						
The Surrogate Recovery was at Narrative:	92	_% for this sample	e A⊩QA/QC	was accep	table.						
ATI Results affine	Sud.										
DE - Dilution Footor Head											

```
Feat Method for a class of complete season, at 192000 cm-1)

The teacher and Feat all Method for a class of complete season and Soil a class of complete season and Soil a class of complete season and season acceptance of complete season acceptance season acceptance of complete season acceptance of complete season acceptance of complete season acceptance of complete season acceptance of complete season acceptance of complete season acceptance of complete season acceptance of complete season acceptance of complete season acceptance of complete season acceptance of complete season acceptance of complete season acceptance of complete season acceptance of complete season acceptance of complete season acceptance of complete season acceptance of complete season acceptance of complete season acceptance of complete season acceptance of complete season acceptance of complete season acceptance of complete season acceptance of complete season acceptance of complete season acceptance of complete season acceptance of complete season acceptance of complete season acceptance of complete season acceptance of complete season acceptance of complete season acceptance of complete season acceptance of complete season acceptance of complete season acceptance of complete season acceptance of complete season acceptance of complete season acceptance of complete season acceptance of complete season acceptance of complete season acceptance of complete season acceptance of complete season acceptance of complete season acceptance of complete season acceptance of complete season acceptance of complete season acceptance of complete season acceptance of complete season acceptance of complete season acceptance of complete season acceptance of complete season acceptance of complete season acceptance of complete season acceptance of complete season acceptance of complete season acceptance of complete season acceptance of complete season acceptance of complete season acceptance of complete season acceptance of complete season acceptance of complet
```





ATI I.D. 506363

June 19, 1995

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On 06/14/95, 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.

Kimberly D. McNeill Project Manager

MR:jt

Enclosure

H. Mitchell Rubenstein, Ph.D.

Laboratory Manager



#### GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)

CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 506363

PROJECT #

: 24324

PROJECT NAME : PIT CLOSURE

SAMPL ID. #		MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
04	946884	NON-AQ	06/07/95	06/14/95	06/15/95	1
05	946885	NON-AQ	06/07/95	C6/14/95	06/15/95	1
06	946886	NON-AQ	06/08/95	06/14/95	06/15/95	1
PARAM	METER		UNITS	04	05	06
BENZE	ENE		MG/KG	<0.025	<0.025	<0.025
TOLUE	ENE		MG/KG	<0.025	0.061	<0.025
ETHYI	LBENZENE		MG/KG	<0.025	<0.025	<0.025
TOTAL	L XYLENES		MG/KG	0.031	0.35	<0.025
SURRO	OGATE:					
BROMO	OFLUOROBENZENE (%)	•		92	93	99