## EL PASO FIELD SERVICES PRODUCTEON PIT CLOSURE

Operator: MERIDIAN OIL INC

DEC 2 1 1998

#### CANYON LARGO UNIT #143 Meter/Line ID - 75863

DECEIVED

SITE DETAILS

Legats - Twn: 25 Rng: 06 Sec: 24 NMOCD Hazard Ranking: 60 Unit: C Land Type: 2 - Federal

, OIL CON. DIV

Pit Closure Date: 10/27/94

DIST, 3

#### 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.
- 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

-	9
CENTEDAY	Meter: 75863 Location: Canyon Largo Unit #143 Operator #: Z999 Operator Name: Mecraina P/L District: Ojito Coordinates: Letter: C Section Z4 Township: Z5 Range: 6W Or Latitude Longitude Pit Type: Dehydrator Location Drip: \( \subseteq \) Line Drip: Other: Site Assessment Date: 7-19-94 Area: O6 Run: 62
SITE ASSESSMENT	NMOCD Zone:  (From NMOCD  Maps)  Inside  Outside  Outside  (2)  Depth to Groundwater  Less Than 50 Feet (20 points)  Offereder Than 100 Ft (0 points)  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?  Horizontal Distance to Surface Water Body  Less Than 200 Ft (20 points)  (3)  Horizontal Distance to Surface Water Body  Coreater Than 1000 Ft (10 points)  (3)  Coreater Than 200 Ft (20 points)  (4)  Coreater Than 200 Ft (20 points)  (5)  Coreater Than 1000 Ft (10 points)  (6)  Coreater Than 1000 Ft (10 points)  (7)  Coreater Than 1000 Ft (10 points)  (8)  Coreater Than 1000 Ft (10 points)  (9)  Coreater Than 1000 Ft (10 points)  (10)  Coreater Than 1000 Ft (10 points)  Cor
REMARKS	TOTAL HAZARD RANKING SCORE: 60 POINTS  Remarks: Redline v.z inside Tapo v.z inside
REM	or Two pits-drip pit is dry

Date

# PHASE I EXCAVATION

### FIELI PIT REMEDIATION/CLOSUT FORM

GENERAL	Meter: 75863 Location: Conyon Largo Unit #143  Coordinates: Letter: C Section 24 Township: 25 Range: 6  Or Latitude Longitude  Date Started: 10-27-99 Area: 06 Run: 62
FIELD OBSERVATIONS	Sample Number(s): $\[ \underline{K} \] 338$ Sample Depth: $\[ \underline{J} \] \]$ Feet  Final PID Reading $\[ \underline{256} \]$ PID Reading Depth $\[ \underline{J} \] \]$ Feet  Groundwater Encountered $\[ \square \]$ (1) $\[ \square \]$ (2) Approximate Depth Feet
JRE	Remediation Method:  Excavation  Onsite Bioremediation  Backfill Pit Without Excavation (3)
CLOSU	Soil Disposition: Kou oland  Envirotech (1) (3) Tierra  Other Facility (2) Name:  Pit Closure Date: 10-27-94 Pit Closed By: B.E.T
REMARKS	Remarks: Some Line markers. Started Remodisting to 12' Soil  gray Looking with a order. At 12' Soil Still the SAME.
	Signature of Specialist: Kells fability (SP3191) 04/07/94



## FIELD SERVICES LABORATORY ANALYTICAL REPORT

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

### SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KP 338	946463
MTR CODE   SITE NAME:	75863	N/A
SAMPLE DATE   TIME (Hrs):	10-27-94	5940
SAMPLED BY:		N/A
DATE OF TPH EXT.   ANAL.:	10-28-44	10-28-94
DATE OF BTEX EXT.   ANAL.:	11-1-94	11-2-44
TYPE   DESCRIPTION:	V L	Dark Bown sand + Clay

REMARKS:	

#### RESULTS

	DECLUIT.	UNITS		QUALIF	IERS	
PARAMETER	RESULT	ONITS	DF	Q	M(g)	V(ml)
BENZENE	< 0.5	MG/KG	20			
TOLUENE	۷ ۵. ۶	MG/KG	20			
ETHYL BENZENE	4.0	MG/KG	20		<del> </del>	
TOTAL XYLENES	45.0	MG/KG	20			
TOTAL BTEX	50	MG/KG				
TPH (418.1)	3330	MG/KG			2.08	28
HEADSPACE PID	256	PPM				
PERCENT SOLIDS	23.7	%				

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

	I HH IS DY EPA Method 410.1 and	OTEX IS BY EVEN INCIDENCE OF THE		
The Surrogate Recovery was at	% for t	his sample All QA/QC	was acceptable.	
Narrative: ATI Results without	9			
DF = Dilution Factor Used			1 101	,
	,	D-44-	11/17/64	

Approved By:

Test Wethod for Dreass and Pennoleum Wethodarbons In Water and Soil Perkin-Elmer Model 1600 FT-IR X

Analymin Report

This stranger as a same a 15:47 Produce Claptification (ditili wase of sample, g Volume of sample after extraction, al TB.CCC Tetroleum hydrocarbons. ppm TU76.677 Not absorbance of hydrocarbons (1900 cm-1) 5.478 15:49 n. Petroleum hydrocarbons spectrum 9396

## ILLEGIBLE



ATI I.D. 411303

November 10, 1994

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On 11/01/94, 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.

Létitia Krakowski, Ph.D.

Project Manager

MR:jt

Enclosure

H. Mitchell Rubenstein, Ph.D.

Laboratory Managex



#### GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)

CLIENT

: EL PASO NATURAL GAS CO. ATI I.D.: 411303

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE

SAMPLE ID. # CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
16 946463	NON-AQ	10/27/94	11/01/94	11/02/94	20
17 946464	NON-AQ	10/27/94	11/01/94	11/03/94	20
PARAMETER		UNITS	16	17	
BENZENE		MG/KG	<0.5	<0.5	
TOLUENE		MG/KG	<0.5	<0.5	
ETHYLBENZENE		MG/KG		<0.5	
TOTAL XYLENES		MG/KG	45	3.9	
SURROGATE:					
BROMOFLUOROBENZENE (%)			113	67	

# PHASE II

#### RECORD OF SUBSURFACE EXPLORATION

#### PHILIP ENVIRONMENTAL

4000 Monroe Road Farmington, New Mexico 87401 (505) 326-2262 FAX (505) 326-2388

Elevation

Borehole Location

GWL Depth

Logged By

CM CHANCE

Drilled By

Date/Time Started

Date/Time Completed

Date/Time Completed

Borehole #	BH-1
Well #	
Page !	of /

Project Name
Project Number
Project Location

Well Logged By
Personnel On-Site

Project Name

EPNG PITS

14509 Phase 6000 / 77

Canyan Large Vall 143 75863

Contractors On-Site
Client Personnel On-Site

Drilling Method 4 1/4" ID HSA
Air Monitoring Method PID, CGI

Depth Sample Greater Fig. 8. Sample Greater Fig. 8. Sample Description Classification System: USCS Symbol Charge Using PM S Backfill to 12  Backfill to 12  Backfill to 12  Bilk siles SAND VF-fsand, or regular Sand dense, seron, addin  20 20 20 20 21  25  30  30  35	Г				Sample			Depth				4
Classification System: USCS   Symbol Change   Usc   State   State	١	Denth	Samola	Sample	1 ' 1	Sample Description	USCS					-
10	ı	-			1 1	Classification System: USCS	Symbol	-				& Blow Counts
Backfill to 12  10  15  15  15  15  17  BJK silvs AND vf-fsa-D, rr med sand, dense strong addin  20  20  20  21  Br Sandstone, vf sand, sl crystylins v hard, sl miss  TOB 21'  130  131  131  132  1330  134  135  137  138  138  138  138  138  138  138	ı	(1001)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					(feet)	BZ	ВН	HS	
		(Feet)	Number	Interval	Recovery (inches)	BIK silty SAND, VF-fsand, +r med sand, dense, strong addr	Symbol	-	BZ	BH	HS LSS	-1115hr -Hard Arliling
					- 1							

Comments: 20-21' sample (CMC 36) sent to lab. Not enough sample volume for Hondspace

Tlab sample. Took lab sample. BH grouted to sufface

Refusal 221'.

Geologist Signature

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PhaseTI

### FIELD SERVICES LABORATORY

### ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

### SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	cmc 36	946870
MTR CODE   SITE NAME:	75863	N/A
SAMPLE DATE   TIME (Hrs):	6-5-95	1131
SAMPLED BY:		N/A
DATE OF TPH EXT.   ANAL.:	7-7-95	6-7-95
ATE OF BTEX EXT. ANAL.:	6-8-95	10-12-95
TYPE   DESCRIPTION:	VG	Brown good stone

REMARKS:		

#### RESULTS

DADAMETER	RESULT	RESULT UNITS	QUALIFIERS					
PARAMETER	HEOUE!	<u> </u>	DF	Q	M(g)	V(ml)		
BENZENE	40.025	MG/KG	Į.					
TOLUENE	40.025	MG/KG	1		<u> </u>			
ETHYL BENZENE	60.025	MG/KG	1					
TOTAL XYLENES	0.061	MG/KG	1					
TOTAL BTEX	0.136	MG/KG						
TPH (418.1)	45.0	MG/KG			2.01	28		
HEADSPACE PID	NIA	PPM						
PERCENT SOLIDS	91.6	%						

	TPH is by EPA Met	thod 418.1 and BTEX is by EPA	Method 8020	
The Surrogate Recovery was at	88	% for this sample	All QA/QC was acceptable.	
Narrative:				
ATI Resolts attack	à			_

DF = Dilution Factor Used

Annroved By:

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Date: <u>6/28/95</u>

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Test Method for
Nic all insize and "viroleum Hydrocarbons
in Water ind Soil
           Peckin-Elber Model 1600 FT-IR
foelvøld Pepori
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Ross
lolitics make of samples ;
volume of sample after actraction, ml
: Patroleum bydrocarbons, com
 That absorbance of hydrocarbons (2730 cm-1)
9.015
                                                                       11:28
          My Patroleum bydrocerkons spectrum
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## ILLEGIBLE

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2999

 $C m^{-1}$ 



ATI I.D. 506330

June 13, 1995

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On 06/08/95, 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.

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#### GAS CHROMATOGRAPHY RESULTS

TEST : BTEX, (EPA 8020)

CLIENT

: EL PASO NATURAL GAS ATI I.D.: 506330

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE

	t t		DATE	DATE	DATE	DIL.
SAMPL ID. #		MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
04	946869	NON-AQ	06/05/95	06/08/95	06/12/95	1
05	946870	NON-AQ	06/05/95	06/08/95	06/12/95	1
06	946876	NON-AQ	06/06/95	06/08/95	06/12/95	1
PARAM			UNITS	04	05	06
BENZE			MG/KG	<0.025	<0.025	<0.025
TOLUE			MG/KG	<0.025	<0.025	<0.025
	BENZENE		MG/KG	<0.025	<0.025	<0.025
	XYLENES		MG/KG	<0.025	0.061	<0.025
SURRO	GATE:			0.0	88	94
PPOMO	VET HODOBENZENE (%)			90	00	24

BROMOFLUORQBENZENE (%)