EL PASO FIELD SERVICES
PRODUCTION PIT CLOSURE

DEPUTY OIL & GAS INSPECTOR

DEC 2 1 1998

RECEIVED
JUL 2 1999
OIL CON. DIV.
DIST. 3

SAN JUAN 28-5 UNIT #13
Meter/Line ID - 71551

SITE DETAILS

Legals - Twn: 28 **Rng:** 05 **Sec:** 09 **Unit:** E
NMOCD Hazard Ranking: 20 **Land Type:** 2 - Federal
Operator: MERIDIAN OIL INC **Pit Closure Date: 06/30/94**

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 east 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.

J:18954:bc

FIELD PIT SITE ASSESSMENT FORM

7

GENERAL

Meter: 71551 Location: San Juan 28-5 unit #13
Operator #: 2999 Operator Name: Meridian P/L District: Bloomfield
Coordinctes: Letter: ~~AA~~ E KGW 6-3-94 Section 9 Township: 28 Range: 5
Or Latitude _____ Longitude _____
Pit Type: Dehydrator X Location Drip: ___ Line Drip: ___ Other: _____
Site Assessment Date: 6-3-94 Area: 10 Run: 71

SITE ASSESSMENT

NMOCD Zone: (From NMOCD Maps)
Inside ☒ (1)
Outside ☐ (2)

Land Type:
BLM ☒ (1)
State ☐ (2)
Fee ☐ (3)
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)

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: 20 **POINTS**

REMARKS

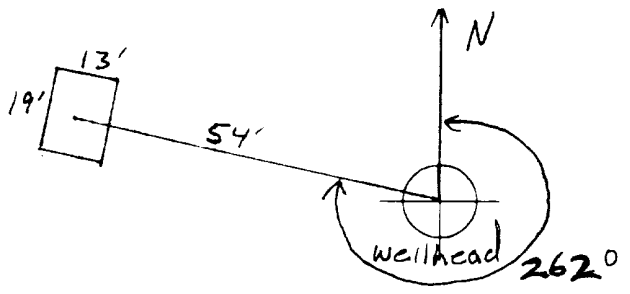
Remarks : Two pits on location. one is dry, one in use with tank/liner
located on north side of SW terminus of Gobernador Cyn.
location inside V.Z. on Red line, outside VZ on Topo

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 262 Footage from Wellhead 54

b) Length : 19 Width : 13 Depth : 3



REMARKS

Remarks : KGW 6-3-94

~~Photos - Roll 1-6394 26-29 @1603 hrs~~

dump truck

Photos Roll 2-6394 #1-4 @1605 hrs

Completed By:

Ken Walter
Ken Walter Signature

6-3-94
Date

PHASE I EXCAVATION

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 71551 Location: SAN JUAN 28-5 UNIT # 13

Coordinates: Letter: E Section 9 Township: 28 Range: 5

Or Latitude _____ Longitude _____

Date Started : 6-30-94 Area: 10 Run: 71

FIELD OBSERVATIONS

Sample Number(s): KP 114 _____ _____ _____

Sample Depth: 12' Feet

Final PID Reading 276 PID Reading Depth 12' Feet

	Yes	No	
Groundwater Encountered	☐ (1)	☒ (2)	Approximate Depth _____ Feet

CLOSURE

Remediation Method :

Excavation	☒ (1)	Approx. Cubic Yards 60
Onsite Bioremediation	☐ (2)	
Backfill Pit Without Excavation	☐ (3)	

Soil Disposition:

Envirotech	☐ (1)	☒ (3) Tierra
Other Facility	☐ (2)	Name: _____

Pit Closure Date: 6-30-94 Pit Closed By: B & I

REMARKS

Remarks : Some Live markers. There is A Pipe Next To Pit. Soil DARK Brown. with A Smell. At 12 Soil Still the Same

Signature of Specialist: Kelly Padilla

(SP3191) 04/07/9

El Paso Natural Gas Company

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KP 114	945563
MTR CODE | SITE NAME:	71551	N/A
SAMPLE DATE | TIME (Hrs):	6-30-94	1145
SAMPLED BY:	N/A	
DATE OF TPH EXT. | ANAL.:	7/7/94	7/7/94
DATE OF BTEX EXT. | ANAL.:	7/8/94	7/10/94
TYPE | DESCRIPTION:	RC	Fine. Brown Sand.

REMARKS: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	2.4	MG/KG	20			
TOLUENE	180	MG/KG	20			
ETHYL BENZENE	19	MG/KG	20			
TOTAL XYLENES	270	MG/KG	20			
TOTAL BTEX	471	MG/KG				
TPH (418.1)	2550	MG/KG			2.03	28
HEADSPACE PID	276	PPM				
PERCENT SOLIDS	87.6	%				

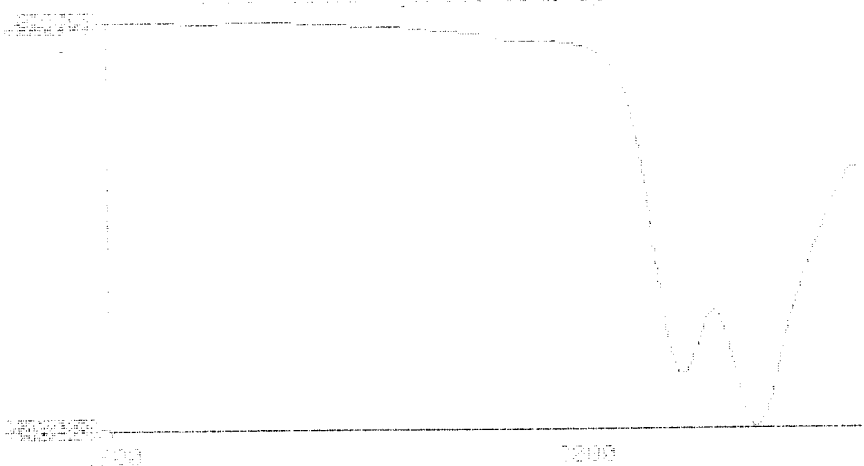
– TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020 –

The Surrogate Recovery was at 218 % for this sample All QA/QC was acceptable.

Narrative:
ATI results attached. Surrogate recovery was outside ATI QC limits due to matrix interference.

DF = Dilution Factor Used

Approved By: _____ Date: 8/8/94



Analytical **Technologies,** Inc.

2709-D Pan American Freeway NE Albuquerque, NM 87107
Phone (505) 344-3777 FAX (505) 344-4413

ATI I.D. **407327**

JUL 1994

July 14, 1994

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On **07/08/94**, Analytical Technologies, Inc., (ADHS License No. AZ0015), received a request to analyze **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.

Due to background interference in the sample the MS/MSD values were evaluted just outside ATI Quality Control (QC) limits.

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

Letitia Krakowski, Ph.D.
Project Manager

H. Mitchell Rubenstein, Ph.D.
Laboratory Manager

MR:jt

Enclosure

Analytical Technologies, Inc.

GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)
CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 407327
PROJECT # : 24324
PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	945561	NON-AQ	06/30/94	07/08/94	07/11/94	50
02	945562	NON-AQ	06/30/94	07/08/94	07/10/94	1
03	945563	NON-AQ	06/30/94	07/08/94	07/10/94	20

PARAMETER	UNITS	01	02	03
BENZENE	MG/KG	4.5	<0.025	2.4
TOLUENE	MG/KG	200	0.055	180
ETHYLBENZENE	MG/KG	30	<0.025	19
TOTAL XYLENES	MG/KG	320	0.49	270
SURROGATE:				
BROMOFLUOROBENZENE (%)		180*	112	218*

*OUTSIDE ATI QUALITY CONTROL LIMITS DUE TO MATRIX INTERFERENCE

PHASE II

RECORD OF SUBSURFACE EX JRATION

71551 Borehole # BH-1
Well #
Page 1 of 2

Philip Environmental Services Corp.
4000 Monroe Road
Farmington, New Mexico 87401
(605) 326-2262 FAX (605) 326-2388

Project Name EPNG Pits
Project Number 14509 Phase ~~601~~ 6000
Project Location San Juan 28-5, unit #13

Elevation
Borehole Location T28, R5, S.9, E
GWL Depth
Logged By S.Kelly
Drilled By K. Padilla
Date/Time Started 7/10/95, ~~+300~~ 1310 RK 7/10/95
Date/Time Completed 7/10/95, 1645

Well Logged By S.Kelly
Personnel On-Site K. Padilla, F. Rivera, D. Charl
Contractors On-Site
Client Personnel On-Site

Drilling Method 4¼" ID HSA.
Air Monitoring Method CGI, PID

Depth (Feet)	Sample Number	Sample Interval	Sample Type & Recovery (inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)	Air Monitoring Units: NDU BZ	BH	S/HS	Drilling Conditions & Blow Counts
0				Backfill to 12'						
5										
10										
15	1	15-16.5	1.1'/1.5'	sandy SILT, brown, 5-15% fine sand, trace clay, very loose, damp.					204/198	1330 524 RK 7/10/95
20	2	20-22	.9'/2.0'	SAA					157/300	1335
25	3	25-26.5	1.2'/1.5'	SAA - grading to 20-35% fine sand toward 26.5'. loose					80/445	1340
30	4	30-32	.85'/2.0'	SAA					61/294	1355
35	5	35-36.5	1.5'/1.5'	SAA with 5-15% clay					33/420	1410
40										

Comments:

Geologist Signature Sarah Kelly

RECORD OF SUBSURFACE EX JRATION

Borehole # BH-1
Well #
Page 2 of 2

Philip Environmental Services Corp.
4000 Monroe Road
Farmington, New Mexico 87401
(505) 326-2262 FAX (505) 326-2388

Project Name EPNG Pits
Project Number 14509 Phase 601
Project Location San Juan 28-5, unit #13

Elevation
Borehole Location
GWL Depth
Logged By S.Kelly
Drilled By
Date/Time Started
Date/Time Completed

Well Logged By S.Kelly
Personnel On-Site
Contractors On-Site
Client Personnel On-Site

Drilling Method
Air Monitoring Method CGI, PID

Depth (Feet)	Sample Number	Sample Interval	Sample Type & Recovery (inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)	Air Monitoring Units: NDU BZ	Air Monitoring Units: NDU BH	Air Monitoring Units: NDU S/HS	Drilling Conditions & Blow Counts
40	6	40-41.5	1.2'/1.5'	SAA, w/less clay, interbds of med sand 1"-2" thick.					93/382	1425
45	7	45-46.5	1.2'/1.5'	SAA		47			110/507	1445
50 10	8	50-51.5	1.1'/1.5	silty SAND, light brown, 5-15% silt, fine sand, loose, damp.					85/263	1500
55 15	9	55-56.5	1.0'/1.5'	SAA					2/7	1520
20				BOH- 56.5						
25										
30										
35										
40										

AK 7/10/95

Comments: 55'-56.5' sample and dup (SEK314SEK32) sent to lab (BTEX & TPH.) Sample was bagged and iced prior to being put in jar. BH grouted to surface.

Geologist Signature Sarah Kelly

Phase II

El Paso Natural Gas Company

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

71551 8/3/95

	Field ID	Lab ID
SAMPLE NUMBER:	SEK29	946963
MTR CODE | SITE NAME:	~~San Juan 28-5 # 85~~	N/A
SAMPLE DATE | TIME (Hrs):	7-10-95	12:10
SAMPLED BY:	N/A	
DATE OF TPH EXT. | ANAL.:	7-12-95	7-12-95
DATE OF BTEX EXT. | ANAL.:	07-17-95	07-17-95
TYPE | DESCRIPTION:	VG	Gray clay w/sand

REMARKS:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS DF	Q	M(g)	V(ml)
BENZENE	<0.025	MG/KG	1			
TOLUENE	<0.025	MG/KG	1			
ETHYL BENZENE	<0.025	MG/KG	1			
TOTAL XYLENES	<0.025	MG/KG	1			
TOTAL BTEX	<0.10	MG/KG				
TPH (418.1)	214 ~~213~~ KOK	MG/KG			2.00	28
HEADSPACE PID	25	PPM				
PERCENT SOLIDS	91.3%	%				

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

The Surrogate Recovery was at 104 % for this sample All QA/QC was acceptable.

Narrative:

ATI Results for BTEX and Modified 8015 attached.

DF = Dilution Factor Used

Approved By: JK

Date: 8/3/95

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**************************************************
*                  Test Method for               *
*      Oil and Grease and Petroleum Hydrocarbons  *
*                  in Water and Soil             *
*                                                *
*            Perkin-Elmer Model 1600 FT-IR       *
*                  Analysis Report               *
**************************************************
*
 95/07/12  12:16
*
*  Sample identification
 946963
*
*  Initial mass of sample, g
 2.000
*
*  Volume of sample after extraction, ml
 28.000
*
*  Petroleum hydrocarbons, ppm
 213.926
*  Net absorbance of hydrocarbons (2930 cm-1)
 0.036
*
*
*
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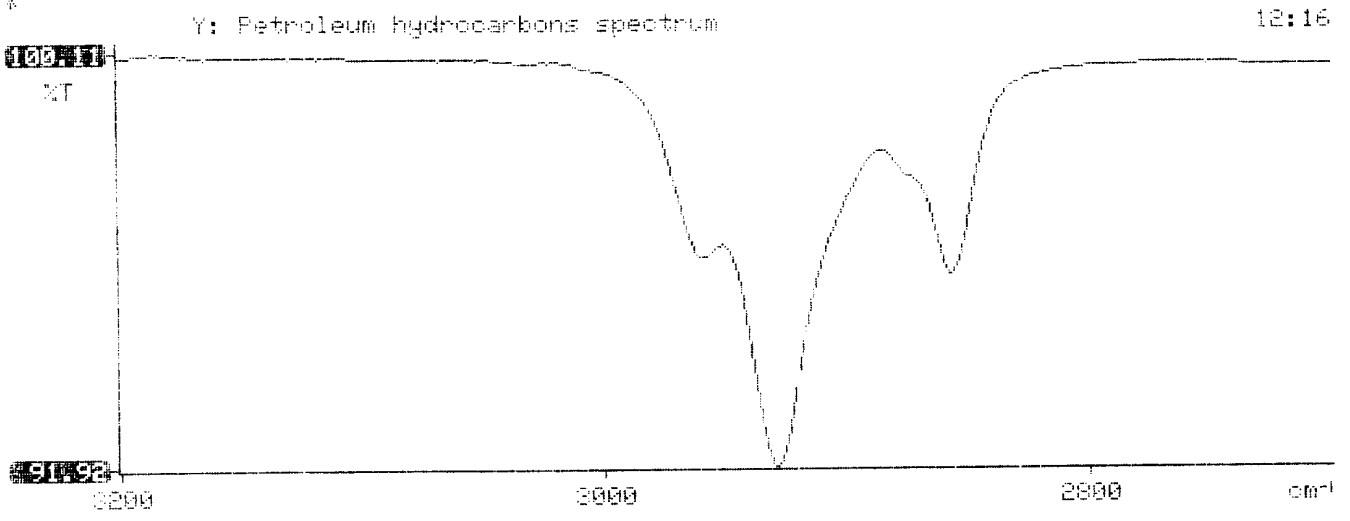

Analytical Technologies, Inc.

GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)

CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 507340

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE/PHASE I PHASE II

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	946962	NON-AQ	07/10/95	07/17/95	07/17/95	1
02	946963	NON-AQ	07/10/95	07/17/95	07/17/95	1
03	946964	NON-AQ	07/10/95	07/17/95	07/17/95	1

PARAMETER	UNITS	01	02	03
BENZENE	MG/KG	<0.025	<0.025	<0.025
TOLUENE	MG/KG	<0.025	<0.025	0.070
ETHYLBENZENE	MG/KG	<0.025	<0.025	<0.025
TOTAL XYLENES	MG/KG	<0.025	<0.025	<0.025
SURROGATE:				
BROMOFLUOROBENZENE (%)		100	104	99

Analytical **Technologies,** Inc.

2709-D Pan American Freeway, NE Albuquerque, NM 87107
Phone (505) 344-3777 FAX (505) 344-4413

ATI I.D. **507340**

July 20, 1995

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

Project Name/Number: PIT CLOSURE/PHASE I PHASE II 24324

Attention: John Lambdin

On **07/14/95**, 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

H. Mitchell Rubenstein, Ph.D.
Laboratory Manager

MR:jt

Enclosure

Analytical Technologies, Inc.

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8015 MODIFIED

CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 507340

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE/PHASE I PHASE II

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
02	946963	NON-AQ	07/10/95	07/14/95	07/14/95	1
05	946966	NON-AQ	07/10/95	07/14/95	07/14/95	1
10	946973	NON-AQ	07/11/95	07/14/95	07/14/95	1

PARAMETER	UNITS	02	05	10
FUEL HYDROCARBONS	MG/KG	15	7	<5
HYDROCARBON RANGE		C10-C18	C6-C10	-
HYDROCARBONS QUANTITATED USING		DIESEL	GASOLINE	-
SURROGATE:				
O-TERPHENYL (%)		116	100	121