

OK

EL PASO FIELD SERVICES
PRODUCTION PIT CLOSURE
DEPUTY OIL & GAS INSPECTOR

DEC 21 1998

SELLERS LS 6
Meter/Line ID - 73084

RECEIVED
JUL 2 1998

Approved

Legals - Twn: 30 Rng: 10

SITE DETAILS

Sec: 30

Unit: L

NMOCD Hazard Ranking: 40

Land Type: 2 - Federal

Operator: AMOCO PRODUCTION COMPANY

OIL CON. DIV.
DIST. 3

Pit Closure Date: 09/13/94

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.

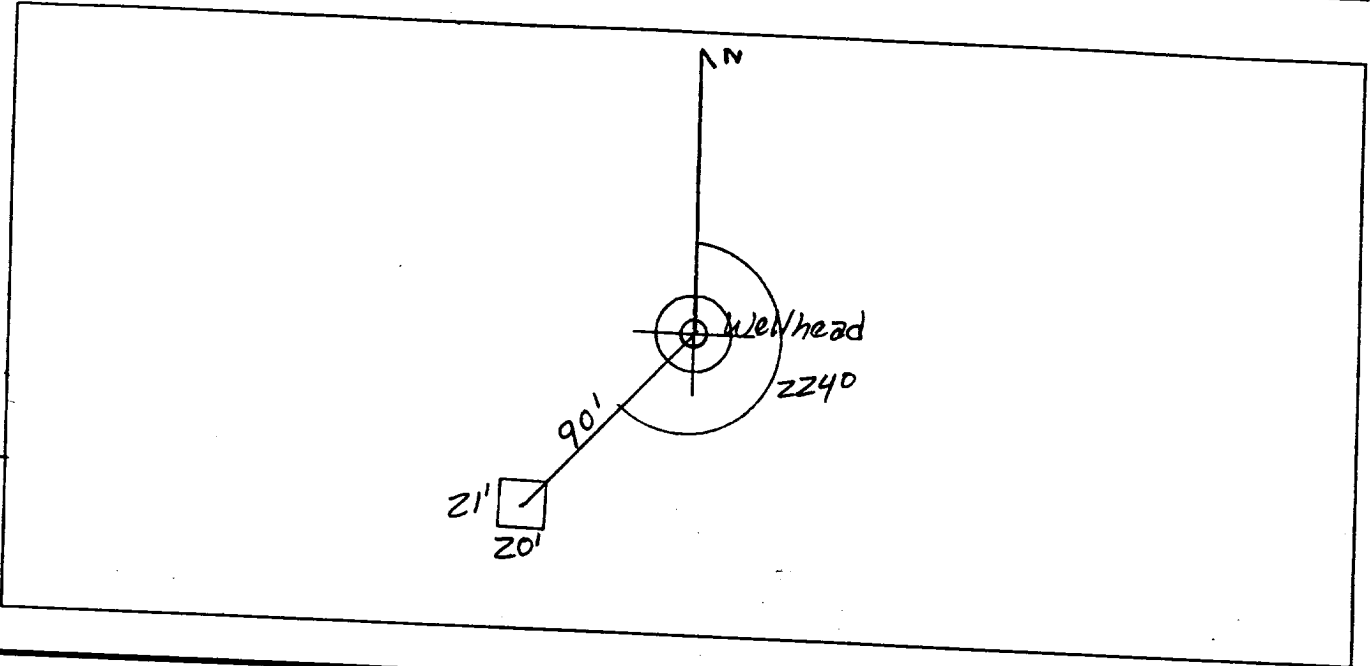
FIELD PIT SITE ASSESSMENT FORM

GENERAL	<p>Meter: <u>73-084</u> Location: <u>Sellers L5 6</u> Operator #: <u>0203</u> Operator Name: <u>Amoco Production P/L</u> District: <u>Aztec</u> Coordinates: Letter: <u>L</u> Section <u>30</u> Township: <u>30</u> Range: <u>10</u> Or Latitude _____ Longitude _____ Pit Type: Dehydrator _____ Location Drip: <u>X</u> Line Drip: _____ Other: _____ Site Assessment Date: <u>8/15/94</u> Area: <u>04</u> Run: <u>21</u></p>
SITE ASSESSMENT	<p>NMOCD Zone: (From NMOCD Maps) Inside <input checked="" type="checkbox"/> (1) Outside <input type="checkbox"/> (2)</p> <p>Land Type: BLM <input checked="" type="checkbox"/> (1) State <input type="checkbox"/> (2) Fee <input type="checkbox"/> (3) Indian _____</p> <p>Depth to Groundwater Less Than 50 Feet (20 points) <input checked="" type="checkbox"/> (1) 50 Ft to 99 Ft (10 points) <input type="checkbox"/> (2) Greater Than 100 Ft (0 points) <input type="checkbox"/> (3)</p> <p>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? <input type="checkbox"/> (1) YES (20 points) <input checked="" type="checkbox"/> (2) NO (0 points)</p> <p>Horizontal Distance to Surface Water Body Less Than 200 Ft (20 points) <input checked="" type="checkbox"/> (1) 200 Ft to 1000 Ft (10 points) <input type="checkbox"/> (2) Greater Than 1000 Ft (0 points) <input type="checkbox"/> (3)</p> <p>Name of Surface Water Body <u>East Fork Bloomfield Canyon</u> (Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds) Distance to Nearest Ephemeral Stream <input type="checkbox"/> (1) < 100' (Navajo Pits Only) <input type="checkbox"/> (2) > 100'</p> <p>TOTAL HAZARD RANKING SCORE: <u>40</u> POINTS</p>
REMARKS	<p>Remarks : <u>Redline Book - Inside</u> <u>Vulnerable Zone Type - Inside</u> <u>One pit, pit is dry, will close one pit.</u></p> <p style="text-align: right;"><u>DIG & HAUL</u></p>

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 224° Footage from Wellhead 90'
b) Length : 21' Width : 20' Depth : 5'

ORIGINAL PIT LOCATION



Remarks :

Pictures @ 1213 (17-20, Roll 12)
Dump Truck

There are 4, 55 gallon drums next to the pit.

REMARKS

Completed By:

Mark Kelly
Signature

8/15/94
Date

PHASE I EXCAVATION

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	<p>Meter: <u>73084</u> Location: <u>Sellers LS 6</u></p> <p>Coordinates: Letter: <u>L</u> Section <u>30</u> Township: <u>30</u> Range: <u>10</u></p> <p>Or Latitude _____ Longitude _____</p> <p>Date Started : <u>9/13/94</u> Run: <u>04</u> <u>21</u></p>
FIELD OBSERVATIONS	<p>Sample Number(s): <u>KD 255</u></p> <p>Sample Depth: <u>12'</u> Feet</p> <p>Final PID Reading <u>426 ppm</u> PID Reading Depth <u>12'</u> Feet</p> <p style="text-align: center;">Yes No</p> <p>Groundwater Encountered <input type="checkbox"/> <input checked="" type="checkbox"/> Approximate Depth _____ Feet</p>
CLOSURE	<p>Remediation Method :</p> <p>Excavation <input checked="" type="checkbox"/> Approx. Cubic Yards <u>40</u></p> <p>Onsite Bioremediation <input type="checkbox"/></p> <p>Backfill Pit Without Excavation <input type="checkbox"/></p> <p>Soil Disposition:</p> <p>Envirotech <input type="checkbox"/> <input checked="" type="checkbox"/> Tierra</p> <p>Other Facility <input type="checkbox"/> Name: _____</p> <p>Pit Closure Date: <u>9/13/94</u> Pit Closed By: <u>BEI</u></p>
REMARKS	<p>Remarks : <u>Excavated pit to 12', TOOK PID Sample, Close a pit.</u></p> <p><u>Hit Sandstone At 12'</u></p>
	<p>Signature of Specialist: <u>[Signature]</u></p>



**FIELD SERVICES LABORATORY
ANALYTICAL REPORT**

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KD 255	946114
MTR CODE SITE NAME:	73084	N/A
SAMPLE DATE TIME (Hrs):	9-13-94	1350
SAMPLED BY:	N/A	
DATE OF TPH EXT. ANAL.:	9-15-94	9-15-94
DATE OF BTEX EXT. ANAL.:	9-19-94	9-19-94
TYPE DESCRIPTION:	VC	Black course sand

REMARKS:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	< 0.5	MG/KG	20			
TOLUENE	9.5	MG/KG	20			
ETHYL BENZENE	6.8	MG/KG	20			
TOTAL XYLENES	11.0	MG/KG	20			
TOTAL BTEX	127	MG/KG				
TPH (418.1)	2590	MG/KG			2.20	28
HEADSPACE PID	426	PPM				
PERCENT SOLIDS	90.0	%				

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

The Surrogate Recovery was at 151 % for this sample All QA/QC was acceptable.
Narrative:

ATI Results attached. Surrogate recovery was outside ATI QC limits due to matrix interference.

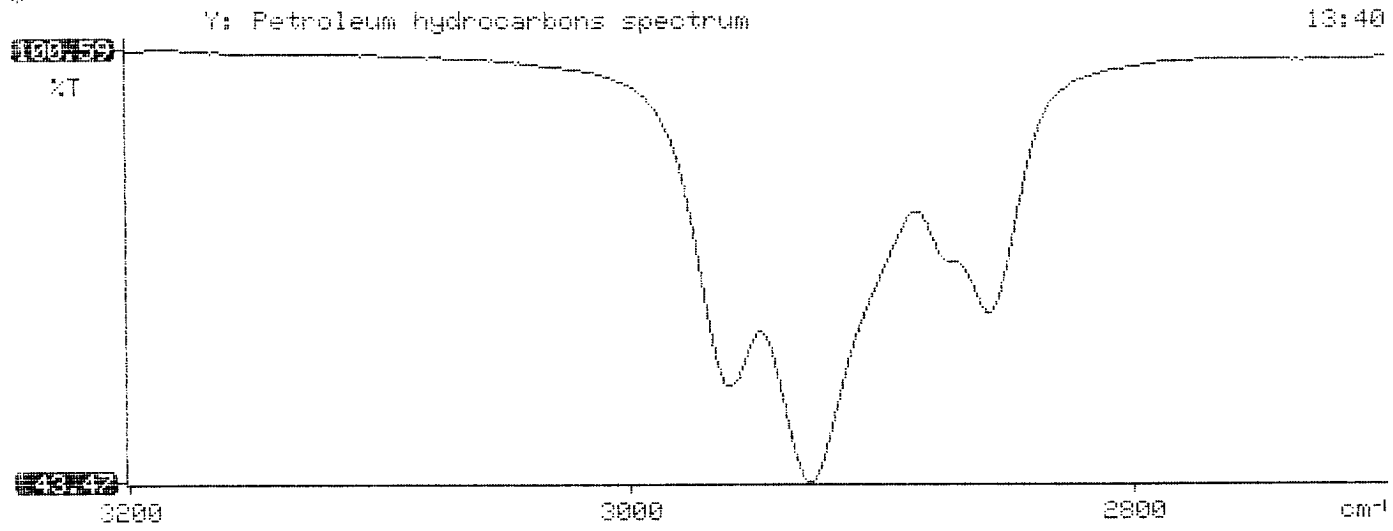
DF = Dilution Factor Used

Approved By: JL

Date: 10/23/94

* Test Method for *
* Oil and Grease and Petroleum Hydrocarbons *
* in Water and Soil *
* Perkin-Elmer Model 1600 FT-IR *
* Analysis Report *

* 94/09/15 13:40
* Sample identification
* 946114
* Initial mass of sample, g
* 2.220
* Volume of sample after extraction, ml
* 28.000
* Petroleum hydrocarbons, ppm
* 2591.003
* Net absorbance of hydrocarbons (2930 cm-1)
* 0.361
*
*
*





Analytical **Technologies**, Inc.

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

ATI I.D. **409367**

September 22, 1994

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

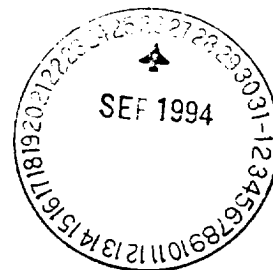
On **09/16/94**, Analytical Technologies, Inc., (ADHS License No. AZ0015), received a request to analyze **non-aqueous** samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

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



GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)
 CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 409367
 PROJECT # : 24324
 PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
07	946114	NON-AQ	09/13/94	09/19/94	09/19/94	20
08	946115	NON-AQ	09/13/94	09/19/94	09/19/94	20
09	946122	NON-AQ	09/14/94	09/19/94	09/19/94	20
PARAMETER			UNITS	07	08	09
BENZENE			MG/KG	<0.5	<0.5	9.0
TOLUENE			MG/KG	9.5	12	180
ETHYLBENZENE			MG/KG	6.8	3.5	29
TOTAL XYLENES			MG/KG	110	41	340

SURROGATE:

BROMOFLUOROBENZENE (%) 151* 220* 109

*OUTSIDE ATI QUALITY CONTROL LIMITS DUE TO MATRIX INTERFERENCE

PHASE II

RECORD OF SUBSURFACE EXPLORATION

Philip Environmental Services Corp.

4000 Monroe Road

Farmington, New Mexico 87401

(505) 326-2262 FAX (505) 326-2388

Borehole # BH-1
Well # _____
Page 1 of 1

Project Name EPNG Pits
Project Number 14509 Phase 60+ 6000
Project Location Sollers LSG, 73084

Elevation _____
Borehole Location T30, R10, S.30, L
GWL Depth _____
Logged By S.Kelly
Drilled By M. Donohue
Date/Time Started 8/1/95, 0730
Date/Time Completed 8/1/95, 0900

Well Logged By S.Kelly
Personnel On-Site M. Donohue, J.O'Keefe, D. Got
Contractors On-Site _____
Client Personnel On-Site _____
Drilling Method 4 1/4" 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 <u>5/H5</u> BZ BH S			Drilling Conditions & Blow Counts
0				Backfill						
5				to 12'						
10										
15										
20	18-20	.8' 2.0'		silty SAND, 20-35% silt, fine sand, dense, dry					9 549	0755 drilling is hard, like rock
25	23-25	.5' 1.5'		SAA					1 6	0810
30	28-30			SAA					1	0825 No heads pace taken, not enough sample
35				BoH-30.0'						
40										

Comments:

28'-30' sample (SEK46) sent to lab (BTEX & TPH) BH grouted to surface.

Geologist Signature

Mark Kelly

FIELD SERVICES LABORATORY ANALYTICAL REPORT

Phase II Drilling
Sellers L56
(28-30')

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	SEX 46	94 7130
MTR CODE SITE NAME:	73084	N/A
SAMPLE DATE TIME (Hrs):	8/1/95	08:25
SAMPLED BY:	N/A	
DATE OF TPH EXT. ANAL.:	8-2-95	8-2-95
DATE OF BTEX EXT. ANAL.:	8-4-95	8-5-95
TYPE DESCRIPTION:	VG	Light brown sand & clay

REMARKS:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	40.025	MG/KG	1			
TOLUENE	40.025	MG/KG	1			
ETHYL BENZENE	40.025	MG/KG	1			
TOTAL XYLENES	40.025	MG/KG	1			
TOTAL BTEX	40.10	MG/KG				
TPH (418.1)	55.8	MG/KG			2.09	28
HEADSPACE PID	n/a	PPM				
PERCENT SOLIDS	92.9	%				

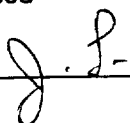
-- TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020 --

The Surrogate Recovery was at 98 % for this sample All QA/QC was acceptable.
Narrative:

ATI Results attached.

DF = Dilution Factor Used

Approved By:



Date:

8/22/95

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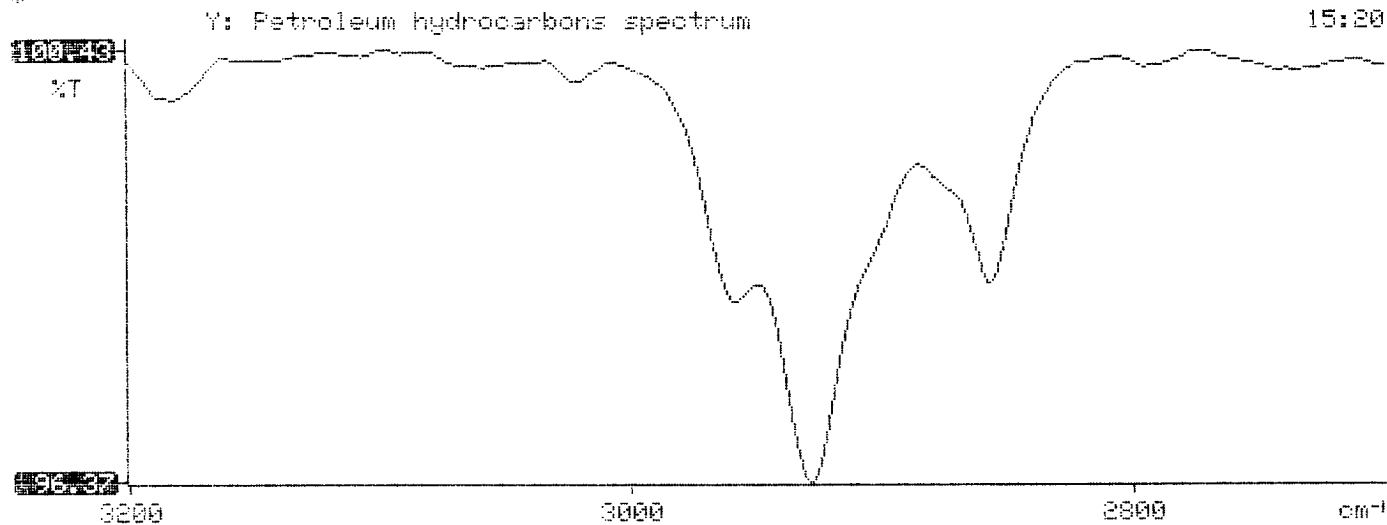
*****
*                               *
*      Test Method for         *
*      Oil and Grease and Petroleum Hydrocarbons      *
*      in Water and Soil       *
*                               *
*      Perkin-Elmer Model 1600 FT-IR                   *
*      Analysis Report                                     *
*****

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95/08/02  15:20
*
* Sample identification
947130
*
* Initial mass of sample, g
2.090
*
* Volume of sample after extraction, ml
28.000
*
* Petroleum hydrocarbons, ppm
55.935
* Net absorbance of hydrocarbons (2930 cm-1)
0.017
*
*
*

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Analytical **Technologies**, Inc.

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

ATI I.D. 508327

August 7, 1995

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

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

Attention: John Lambdin

On 08/04/95, 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.: 508327
 PROJECT # : 24324
 PROJECT NAME : PIT CLOSURE/PHASE II

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
04	947130	NON-AQ	08/01/95	08/04/95	08/05/95	1
05	947131	NON-AQ	08/01/95	08/04/95	08/05/95	1
06	947132	NON-AQ	08/01/95	08/04/95	08/05/95	1

PARAMETER	UNITS	04	05	06
BENZENE	MG/KG	<0.025	<0.025	<0.025
TOLUENE	MG/KG	<0.025	<0.025	<0.025
ETHYLBENZENE	MG/KG	<0.025	<0.025	<0.025
TOTAL XYLENES	MG/KG	<0.025	<0.025	<0.025

SURROGATE:

BROMOFLUOROBENZENE (%)	98	98	93
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