

~~HPES PIT CLOSURE~~ SUMMARY

~~DEPUTY OIL & GAS INSPECTOR~~

JUL 17 1998

G.R. Gentle Well No. 1
Meter/Line ID - 70492

SITE DETAILS

Legals - Twn: 27 Rng: 9 Sec: 14 Unit: N
NMOCD Hazard Ranking: 30 Land Type: BLM
Operator: Texaco

PREVIOUS ACTIVITIES

Site Assessment: 6/16/94 Excavation: 8/19/94 Soil Boring: 8/15/95
Monitor Well: N/A Re-Excavation: N/A Geoprobe: N/A

CONCLUSIONS

The initial excavation was excavated to the practical extent of the trackhoe, which was 12 feet below ground surface (bgs). PID field screening indicated subsurface soils to be 20 ppm at 12 feet bgs. Excavation was terminated and a sample was collected. Sample analysis indicated total BTEX to be below standards at 4.1 mg/kg, and TPH above standards at 271 mg/kg. A test boring was drilled in the center of the initial excavation to determine the vertical extent of impact to soil. A gray clay with some fine sand was encountered at 12 feet bgs and continued to the termination of the boring at 35 feet bgs. A soil sample was collected for BTEX and TPH analysis at 33-35 feet bgs. Laboratory analysis showed all BTEX compounds to be below detection limits and TPH present at 89.3 mg/kg.

RECOMMENDATIONS

No further action is recommended at the site for the following reasons:

- The bulk of the impacted soil was removed during the phase 1 excavation.
- Test boring sample results indicated soils below standards 21 feet beneath the initial excavation.
- The excavation was terminated in a clay.
- No groundwater was encountered in the test boring.
- No potential receptors are within 1,000 feet of the site.
- Residual hydrocarbons remaining in the soils at the bottom of the initial excavation will naturally degrade in time with minimal risk to the environment.

RECEIVED
JUL 21 1998
DIV.

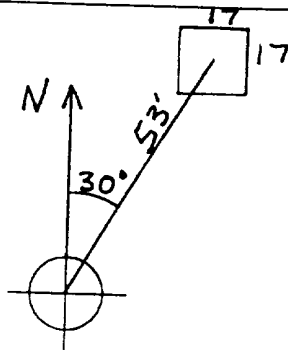
FIELD PIT SITE ASSESSMENT FORM

GENERAL	<p>Meter: <u>70492</u> Location: <u>G.R. Gentle Well No. 1</u> Operator #: <u>0263</u> Operator Name: <u>Texaco</u> P/L District: <u>Ballard</u> Coordinates: Letter: <u>N</u> Section <u>14</u> Township: <u>27N</u> Range: <u>9W</u> Or Latitude _____ Longitude _____ Pit Type: Dehydrator _____ Location Drip: <u>X</u> Line Drip: _____ Other: _____ Site Assessment Date: <u>6-16-94</u> Area: <u>11</u> Run: <u>71</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 type="checkbox"/> (1) 200 Ft to 1000 Ft (10 points) <input checked="" type="checkbox"/> (2) Greater Than 1000 Ft (0 points) <input type="checkbox"/> (3)</p> <p>Name of Surface Water Body <u>Huerfano Canyon</u> (Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)</p> <p>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>30</u> POINTS</p>
REMARKS	<p>Remarks : <u>one pit on location. Dry</u> <u>Inside V.Z. on Redline & Topo</u></p>

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 30 Footage from Wellhead 53
b) Length : 17 Width : 17 Depth : 4



Remarks :

Photos - 1230 hrs

REMARKS

Completed By:

Signature

6-16-94

Date

1. The first step in the process of the development of a new product is the identification of a market need. This is often done through market research, which can be conducted in a variety of ways, including surveys, focus groups, and interviews. The goal is to understand what customers want and need, and to identify any gaps in the current market.

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	<p>Meter: <u>70492</u> Location: <u>G.R. Gentle Well #1</u></p> <p>Coordinates: Letter: <u>N</u> Section <u>14</u> Township: <u>27N</u> Range: <u>9W</u> ^{KD} <u>8/19/94</u></p> <p>Or Latitude _____ Longitude _____</p> <p>Date Started : <u>8/19/94</u> Run: <u>11</u> <u>71</u></p>
FIELD OBSERVATIONS	<p>Sample Number(s): <u>KD 228</u></p> <p>Sample Depth: <u>12'</u> Feet</p> <p>Final PID Reading <u>120 ppm</u> PID Reading Depth <u>12'</u> Feet</p> <p>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>60</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 checked="" type="checkbox"/> Tierra <input type="checkbox"/></p> <p>Other Facility <input type="checkbox"/> Name: _____</p> <p>Pit Closure Date: <u>8/19/94</u> Pit Closed By: <u>BEI</u></p>
REMARKS	<p>Remarks : <u>Excavated pit to 12', TOOK PID Sample, Closed pit</u></p>
<p>Signature of Specialist: <u>Henry Danner</u></p>	



FIELD SERVICES LABORATORY
ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	WD 228	945981
MTR CODE SITE NAME:	70492	N/A
SAMPLE DATE TIME (Hrs):	8-19-04	1230
SAMPLED BY:	N/A	
DATE OF TPH EXT. ANAL.:	8-24-04	8-24-04
DATE OF BTEX EXT. ANAL.:	8/25/04	8/26/04
TYPE DESCRIPTION:	VC	light brown coarse sand

REMARKS:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	LO.25	MG/KG	10			
TOLUENE	LO.25	MG/KG	10			
ETHYL BENZENE	LO.25	MG/KG	10			
TOTAL XYLENES	3.3	MG/KG	10			
TOTAL BTEX	4.1	MG/KG				
TPH (418.1)	1209/214270271	MG/KG			2.06	28
HEADSPACE PID	120	PPM				
PERCENT SOLIDS	91.5	%				

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

The Surrogate Recovery was at 138 % 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:

J.S.

Date:

9/30/04



Analytical **Technologies**, Inc.

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

ATI I.D. 408397

August 29, 1994

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

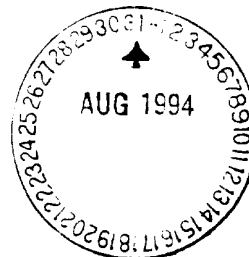
On 08/25/94, Analytical Technologies, Inc., (ADHS License No. AZ0015), received a request to analyze **non-aqueous** samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

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

H. Mitchell Rubenstein, Ph.D.
Laboratory Manager

MR:jtc

Enclosure





GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)
CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 408397
PROJECT # : 24324
PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYSED	DIL. FACTOR
13	945979	NON-AQ	08/19/94	08/25/94	08/25/94	1
14	945980	NON-AQ	08/19/94	08/25/94	08/26/94	1
15	945981	NON-AQ	08/19/94	08/25/94	08/26/94	10
PARAMETER			UNITS	13	14	15
BENZENE			MG/KG	<0.025	<0.025	<0.25
TOLUENE			MG/KG	0.12	<0.025	<0.25
ETHYLBENZENE			MG/KG	<0.025	<0.025	<0.25
TOTAL XYLENES			MG/KG	0.040	<0.025	3.3

SURROGATE:

BROMOFLUOROBENZENE (%) 97 96 138*

*OUTSIDE ATI QUALITY CONTROL LIMITS DUE TO MATRIX INTERFERENCE

RECORD OF SUBSURFACE EXPLORATION

PHILIP ENVIRONMENTAL

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 6000.77

Project Location G.R. Gentle Well #1 70492

Elevation

Borehole Location T27N, R9W, S14, N

GWL Depth

Logged By Jeff W. Kindley

Drilled By G. Sudduth

Date/Time Started 08/15/95 0850

Date/Time Completed 08/15/95 1105

Well Logged By Jeff W. Kindley

Personnel On-Site G. Sudduth, D. Roberts, H. Kelfe

Contractors On-Site

Client Personnel On-Site

Drilling Method 4 1/4 ID HSA

Air Monitoring Method PID, CGI

Depth (Feet)	Sample Number	Sample Interval	Sample Type & Recovery (inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)	Air Monitoring Units: PPM			Drilling Conditions & Blow Counts
							BZ	BH	S	
0				Backfill to 12'						
5										
10										
15										
20	1	18-20'	1.0 2.0	CLAY, with some sand, fine grained, gray, stiff, dry				166 217		0930
25	2	23-25'	1.0 2.0	S.A.A.				78 170		0945
30	3	28-30'	1.7 2.0	S.A.A.				7.5 97		1000
35	4	33-35'	1.8 2.0	S.A.A. Boring terminated at 35'				35 26		1025
40										

Comments:

Sample collected at 33 to 35' and analyzed for BTEX and TPH.
B.H. grouted to surface.

Geologist Signature

Jeff W. Kindley



FIELD SERVICES LABORATORY
ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	JWK 13	947238
MTR CODE SITE NAME:	70492	G.R. Gentle Well No. 1
SAMPLE DATE TIME (Hrs):	08-15-95	10:25
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. ANAL:	8/14/95	8/14/95
DATE OF BTEX EXT. ANAL:	8/18/95	8/14/95
TYPE DESCRIPTION:	VG	light grey sand & clay

Field Remarks:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	< .5	MG/KG		F		
TOLUENE	< .5	MG/KG				
ETHYL BENZENE	< .5	MG/KG				
TOTAL XYLENES	< 1.5	MG/KG				
TOTAL BTEX	< 3	MG/KG				
TPH (418.1)	89.3	MG/KG			2.05	28
HEADSPACE PID	26	PPM				
PERCENT SOLIDS	91.8	%				

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

The Surrogate Recovery was at 92% for this sample All QA/QC was acceptable.

Narrative:

Benzene Taken from FID.

DF = Dilution Factor Used

Approved By: 

Date: 8/24/95

```

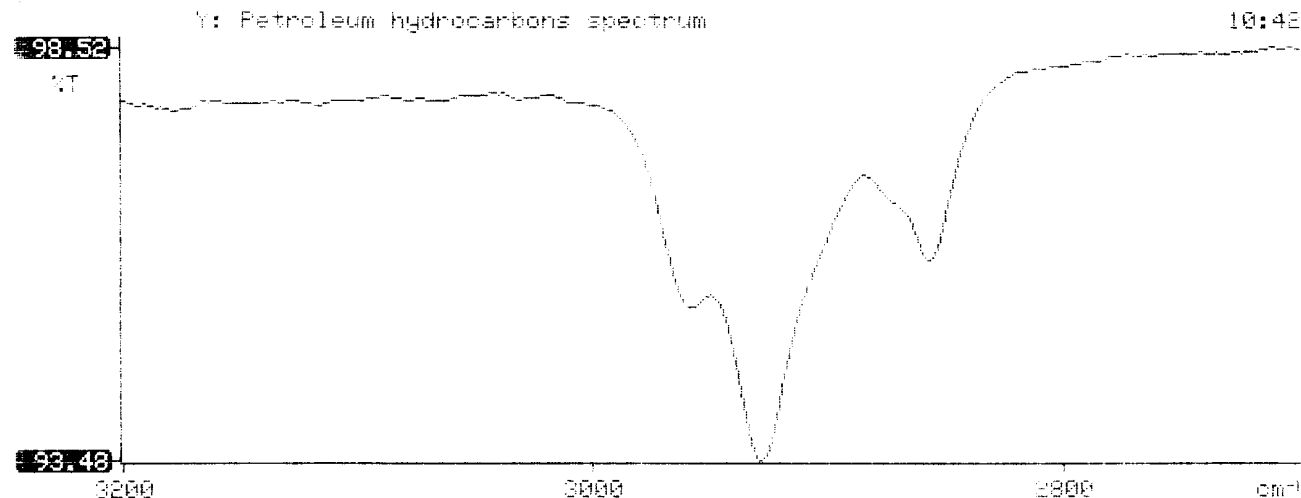
*****
*                               *
*      Test Method for         *
*      Oil and Grease and Petroleum Hydrocarbons *
*      in Water and Soil      *
*                               *
*      Perkin-Elmer Model 1600 FT-IR *
*      Analysis Report        *
*****

```

```

*
* 95/08/17 10:42
*
* Sample identification
* 947238
*
* Initial mass of sample, g
* 2.050
*
* Volume of sample after extraction, ml
* 28.000
*
* Petroleum hydrocarbons, ppm
* 89.296
* Net absorbance of hydrocarbons (2930 cm-1)
* 0.021
*
*

```



BTEX SOIL SAMPLE WORKSHEET

File	:	947238	Date Printed	:	8/23/95
Soil Mass (g)	:	4.97	Multiplier (L/g)	:	0.00101
Extraction vol. (mL)	:	20	DF (Analytical)	:	200
Shot Volume (uL)	:	100	DF (Report)	:	0.20121

				Det. Limit
Benzene (ug/L)	:	0.00	Benzene (mg/Kg):	0.000 0.503
Toluene (ug/L)	:	0.00	Toluene (mg/Kg):	0.000 0.503
Ethylbenzene (ug/L)	:	0.00	Ethylbenzene (mg/Kg):	0.000 0.503
p & m-xylene (ug/L)	:	0.00	p & m-xylene (mg/Kg):	0.000 1.006
o-xylene (ug/L)	:	0.00	o-xylene (mg/Kg):	0.000 0.503
			Total xylenes (mg/Kg):	0.000 1.509
			Total BTEX (mg/Kg):	0.000

EL PASO NATURAL GAS

EPA METHOD 8020 - BTEX SOILS

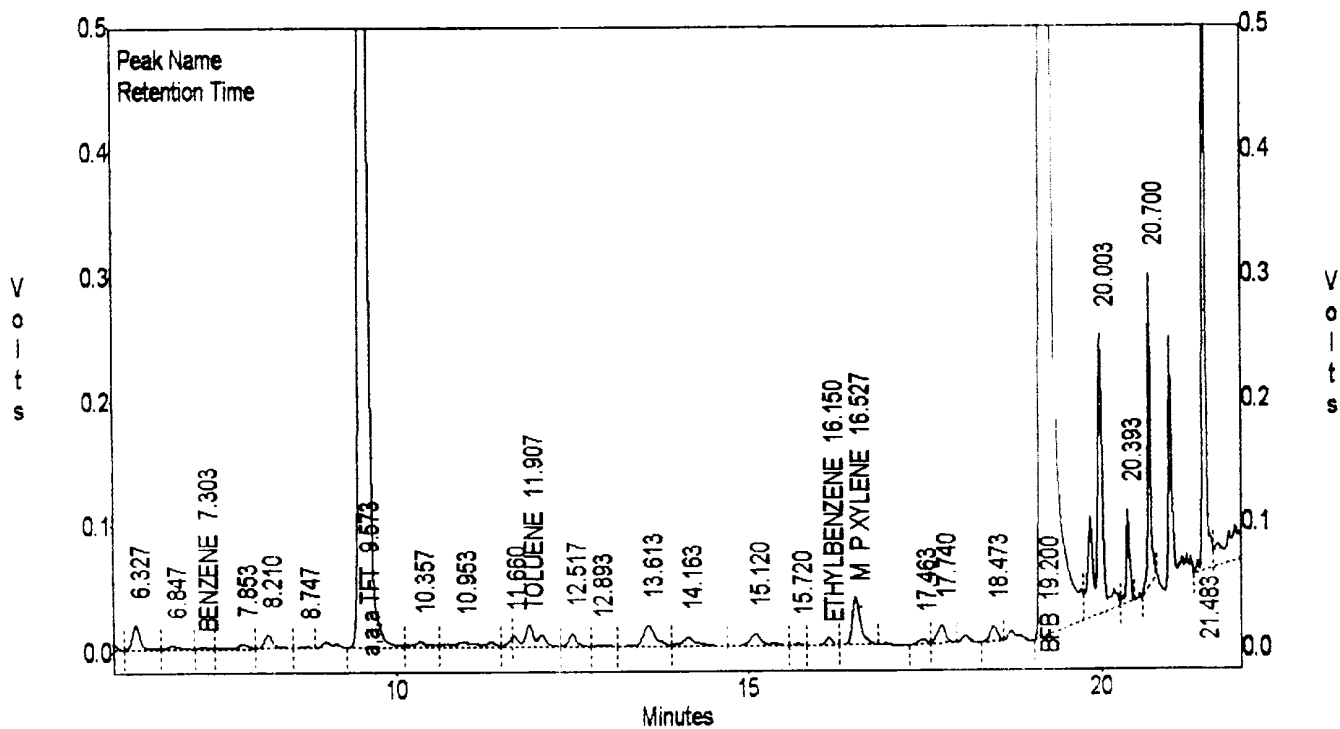
File : C:\LABQUEST\CHROM000\081895.014
 Method : C:\LABQUEST\METHODS\9000.MET
 Sample ID : 947238,4.97G,100U
 Acquired : Aug 19, 1995 01:22:40
 Printed : Aug 21, 1995 14:04:19
 User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	7.303	13370	-2.4302
a,a,a TFT	9.573	9398731	95.3191
TOLUENE	11.907	265106	-0.2182
ETHYLBENZENE	16.150	40715	-0.2558
M & P XYLENE	16.527	310811	-2.4720
O XYLENE	17.670	0	0.0000
BFB	19.200	68714424	91.7503

-OK mh 8/23

C:\LABQUEST\CHROM000\081895.014 - Channel A



EL PASO NATURAL GAS**EPA METHOD 8020 - BTEX SOILS**

File : C:\LABQUEST\CHROM000\081895.014
 Method : C:\LABQUEST\METHODS\9000.MET
 Sample ID : 947238,4.97G,100U
 Acquired : Aug 19, 1995 01:22:40
 Printed : Aug 21, 1995 14:04:26
 User : MARLON

Channel B Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	7.500	0	0.0000
a,a,a TFT	9.580	297646	97.4952
TOLUENE	11.893	0	0.0000
ETHYLBENZENE	16.120	0	0.0000
M & P XYLENE	16.497	0	0.0000
O XYLENE	17.637	0	0.0000
BFB	19.227	1571349	98.1124

