

**3R -** 161

# **REPORTS**

**DATE:**

2000



**Certified Mail:** #7000 1670 0012 7260 6739

February 26, 2001

Mr. William C. Olson  
New Mexico Oil Conservation Division  
1220 St. Francis Dr.  
Santa Fe, NM 87504

**RECEIVED**

FEB 28 2001

ENVIRONMENTAL BUREAU  
OIL CONSERVATION DIVISION

**RE: 2000 Pit Project Annual Groundwater Report**

Dear Mr. Olson:

In accordance with reporting requirements, El Paso Field Services (EPFS) has enclosed annual updates for the 32 remaining groundwater impacted sites that were identified during our pit closure project of 1994 / 1995.

Of the 32 reports (Volumes 1-4), EPFS hereby requests closure of six sites. The six sites EPFS is requesting closure on are presented in one separate binder entitled "San Juan Basin Pit Closures, El Paso Field Services, Pit Closure Reports". Four of the six sites were submitted in last years report and a decision has not been made on closure. The remaining two sites have been submitted in previous years and denied closure.

The Jaquez Com. C #1 and Jaquez Com. E #1 site is not included in with this years report and will be submitted by the required deadline of April 1, 2001

EPFS has also included for your information six Navajo sites in a separate binder.

If you have any questions concerning the enclosed reports or closure requests, please call me at (505) 599-2124.

Sincerely,

A handwritten signature in dark ink, appearing to read 'Scott T. Pope', with a stylized flourish at the end.

Scott T. Pope P.G.  
Senior Environmental Scientist

xc: Mr. Denny Foust, NMOCD, Aztec - w / enclosures; **Certified Mail # 7000 1670 0012 7260 6722**  
Mr. Bill Liesse, BLM - w / enclosures (federal sites only), **Certified Mail # 7000 1670 0012 7260 6715**

**SAN JUAN BASIN PIT CLOSURES**  
**San Juan Basin, New Mexico**

**El Paso Field Services**  
**Pit Project Groundwater Report**  
**Annual Report**  
**Volume IV (Sites on Navajo Owned Land)**

**March 2001**

**Prepared For**

**El Paso Field Services**  
**Farmington, New Mexico**

**Project 62800398**



161

# EPFS GROUNDWATER PITS

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**CHARLEY PAH #2**  
**Meter/Line ID - 70804**

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**SITE DETAILS**

**Legals - Twn: 27N      Rng: 9W**  
**NMOCD Hazard Ranking: 60**  
**Operator: TEXACO**

**Sec: 12**

**Unit: B**  
**Land Type: NAVAJO**

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**PREVIOUSLY SUBMITTED FOR CLOSURE**

The Charley Pah #2 site (Navajo Jurisdiction) was submitted for closure in the EPFS Groundwater Pits 1999 Closure Report dated March 2000. Awaiting closure for this site from Navajo Nation EPA.

The Field Pit Assessment Form, Field Pit Remediation/Closure Form, and supporting documentation, omitted from the original report, were forwarded to the NMOCD on December 13, 2000 by EPFS. The documentation for previous activities is provided as Attachment 1 in the event that it was not presented in previous submittals.

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**ATTACHMENT 1**

**SITE ASSESSMENTS**

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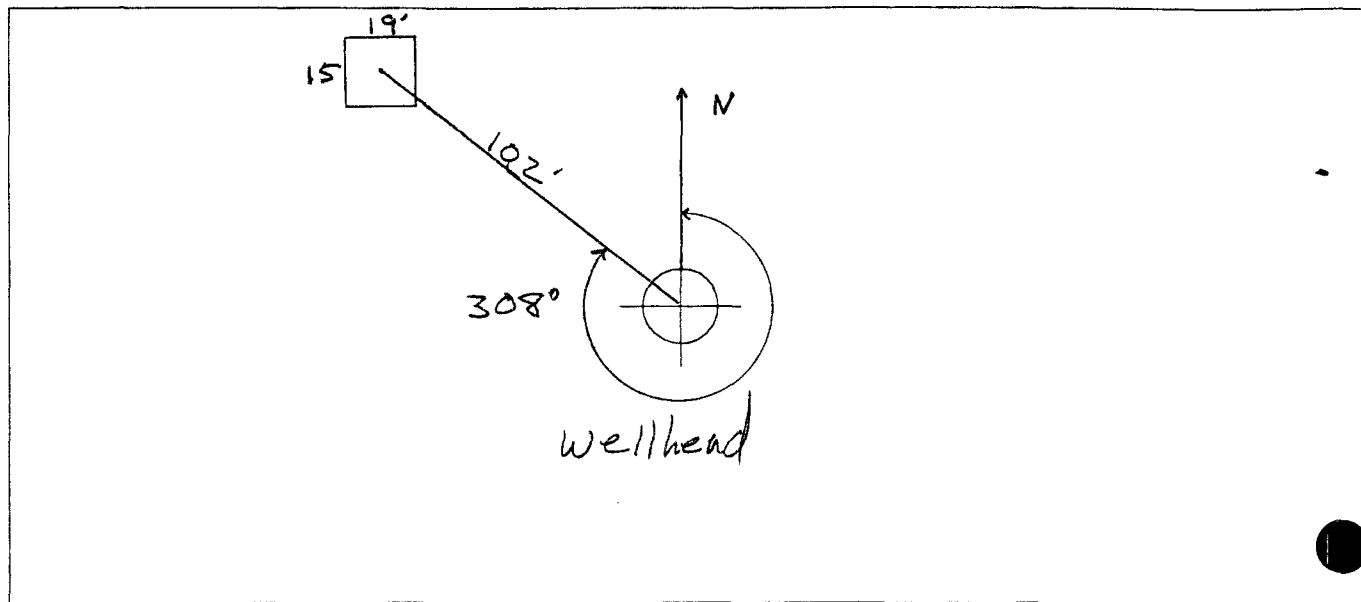
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# FIELD PIT SITE ASSESSMENT FORM

|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| GENERAL         | <p>Meter: <u>70804</u> Location: <u>Charley Pah well No 2</u><br/>         Operator #: <u>0263</u> Operator Name: <u>Exaco</u> P/L District: <u>Ballard</u><br/>         Coordinates: Letter: <u>B</u> Section <u>12</u> Township: <u>27</u> Range: <u>9</u><br/>         Or Latitude _____ Longitude _____<br/>         Pit Type: Dehydrator _____ Location Drip: <u>X</u> Line Drip: _____ Other: _____<br/>         Site Assessment Date: <u>6-14-94</u> Area: <u>11</u> Run: <u>71</u></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| SITE ASSESSMENT | <p><b>NMOCD Zone:</b> (From NMOCD Maps) Inside <input checked="" type="checkbox"/> (1) Outside <input type="checkbox"/> (2)</p> <p><b>Land Type:</b> BLM <input type="checkbox"/> (1) State <input type="checkbox"/> (2) Fee <input type="checkbox"/> (3) Indian <u>Eastern Navajo Agency</u></p> <p><b>Depth to Groundwater</b><br/>         Less Than 50 Feet (20 points) <input checked="" type="checkbox"/> (1)<br/>         50 Ft to 99 Ft (10 points) <input type="checkbox"/> (2)<br/>         Greater Than 100 Ft (0 points) <input type="checkbox"/> (3)</p> <p><b>Wellhead Protection Area :</b><br/>         Is it less than <u>1000</u> ft from <u>wells</u>, springs, or other sources of fresh water extraction? , or ; Is it less than 200 ft from a private domestic water source? <input checked="" type="checkbox"/> (1) YES (20 points) <input type="checkbox"/> (2) NO (0 points)</p> <p><b>Horizontal Distance to Surface Water Body</b><br/>         Less Than 200 Ft (20 points) <input checked="" type="checkbox"/> (1)<br/>         200 Ft to 1000 Ft (10 points) <input type="checkbox"/> (2)<br/>         Greater Than 1000 Ft (0 points) <input type="checkbox"/> (3)</p> <p>Name of Surface Water Body <u>Blanco Canyon</u><br/>         (Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)<br/>         Distance to Nearest Ephemeral Stream <input type="checkbox"/> (1) &lt; 100' (Navajo Pits Only)<br/> <input type="checkbox"/> (2) &gt; 100'</p> <p><b>TOTAL HAZARD RANKING SCORE:</b> <u>60</u> POINTS</p> |
| REMARKS         | <p>Remarks : <u>one pit on location -- dry</u><br/> <u>Inside V.Z. on Redline of Topd</u><br/> <u>Dry &amp; Hard</u></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

# ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 308 Footage from Wellhead 102  
 b) Length : 19 Width : 15 Depth : 3



Remarks :

Photos - 1513

Completed By:

*[Signature]*

Signature

6-14-94

Date

**FIELD PIT REMEDIATION/CLOSURE FORM**

**GENERAL**

Meter: 70804 Location: Charley PAH well #2  
 Coordinates: Letter: B Section 12 Township: 27 Range: 9  
 Or Latitude \_\_\_\_\_ Longitude \_\_\_\_\_  
 Date Started : 8/17/94 Run: 11 71

**FIELD OBSERVATIONS**

Sample Number(s): KD 218  
 Sample Depth: 12' Feet  
 Final PID Reading 283 ppm PID Reading Depth 12' Feet  
 Yes No  
 Groundwater Encountered ☐ ☒ Approximate Depth \_\_\_\_\_ Feet

**CLOSURE**

Remediation Method :  
 Excavation ☒ Approx. Cubic Yards 80  
 Onsite Bioremediation ☐  
 Backfill Pit Without Excavation ☐  
 Soil Disposition:  
 Envirotech ☒ ☐ Tierra  
 Other Facility ☐ Name: \_\_\_\_\_  
 Pit Closure Date: 8/17/94 Pit Closed By: BEI

**REMARKS**

Remarks : Excavated pit to 12', Took pid sample,  
closed pit.

Signature of Specialist: Kenny Deane



## FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT

### SAMPLE IDENTIFICATION

|                            |          |                     |
|----------------------------|----------|---------------------|
|                            | Field ID | Lab ID              |
| SAMPLE NUMBER:             | KP218    | 945949              |
| MTR CODE   SITE NAME:      | 70804    | Charley Pah #2      |
| SAMPLE DATE   TIME (Hrs):  | 8/17/94  | 1230                |
| PROJECT:                   | PHASE I  |                     |
| DATE OF TPH EXT.   ANAL.:  | 8/18/94  | 8/18/94             |
| DATE OF BTEX EXT.   ANAL.: | 8/22/94  | 8/22/94             |
| TYPE   DESCRIPTION:        | VC       | Gray fine sand/clay |

Field Remarks: \_\_\_\_\_

### RESULTS

| PARAMETER      | RESULT | UNITS | QUALIFIERS |   |      |       |
|----------------|--------|-------|------------|---|------|-------|
|                |        |       | DF         | Q | M(g) | V(ml) |
| BENZENE        | <0.5   | MG/KG | 20         | D |      |       |
| TOLUENE        | 42.0   | MG/KG | 20         | D |      |       |
| ETHYL BENZENE  | 4.90   | MG/KG | 20         | D |      |       |
| TOTAL XYLENES  | 52.0   | MG/KG | 20         | D |      |       |
| TOTAL BTEX     | 98.9   | MG/KG |            |   |      |       |
| TPH (418.1)    | 368    | MG/KG |            |   | 2.05 | 28    |
| HEADSPACE PID  | 283    | PPM   |            |   |      |       |
| PERCENT SOLIDS | 88.3   | %     |            |   |      |       |

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

The Surrogate Recovery was at 135 for this sample All QA/QC was acceptable.  
The "D" qualifier indicates reported result for this analyte is calculated based on a secondary dilution factor.

Narrative:

*ATI Results attached. Surrogate recovery was outside ATI QC limits due to matrix interference.*  
DF = Dilution Factor Used

Approved By: \_\_\_\_\_

INGVZPIT.XLS

Date: \_\_\_\_\_

*9/2/94*



## FIELD SERVICES LABORATORY

## ANALYTICAL REPORT

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

## SAMPLE IDENTIFICATION

|                            | Field ID           | Lab ID              |
|----------------------------|--------------------|---------------------|
| SAMPLE NUMBER:             | KD 218             | 945949              |
| MTR CODE   SITE NAME:      | 70804              | N/A                 |
| SAMPLE DATE   TIME (Hrs):  | 8/17/94            | 1230                |
| SAMPLED BY:                | N/A                |                     |
| DATE OF TPH EXT.   ANAL.:  | 8/18/94            | 8/18/94             |
| DATE OF BTEX EXT.   ANAL.: | 8/22/94            | 8/22/94             |
| TYPE   DESCRIPTION:        | 45 VC with 8/18/94 | Grey fine sand/clay |

REMARKS:

## RESULTS

| PARAMETER      | RESULT | UNITS  | QUALIFIERS |   |      |       |
|----------------|--------|--------|------------|---|------|-------|
|                |        |        | DF         | Q | M(g) | V(ml) |
| BENZENE        | 10.5   | MG/KG  | 20         |   |      |       |
| TOLUENE        | 42     | MG/KG  | 20         |   |      |       |
| ETHYL BENZENE  | 4.9    | MG/KG  | 20         |   |      |       |
| TOTAL XYLENES  | 52     | MG/KG  | 20         |   |      |       |
| TOTAL BTEX     | 99     | MG/KG  |            |   |      |       |
| TPH (418.1)    | 368    | MG/KG  |            |   | 205  | 28    |
| HEADSPACE PID  | 283    | PPM    |            |   |      |       |
| PERCENT SOLIDS | 87.5   | 88.3 % |            |   |      |       |

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

The Surrogate Recovery was at 135 % for this sample All QA/QC was acceptable.

Narrative:

ATS results attached. Surrogate recovery was outside ATS QC limits due to matrix interference

DF = Dilution Factor Used

Approved By:

Date:

9/2/94

\*\*\*\*\*  
\* Test Method for  
\* Oil and Greases and Petroleum Hydrocarbons  
\* in Water and Soil  
\*  
\* Parkin-Elmer Model 1600 FT-IR  
\* Analysis Report  
\*  
\*\*\*\*\*

94/08/18 13:40

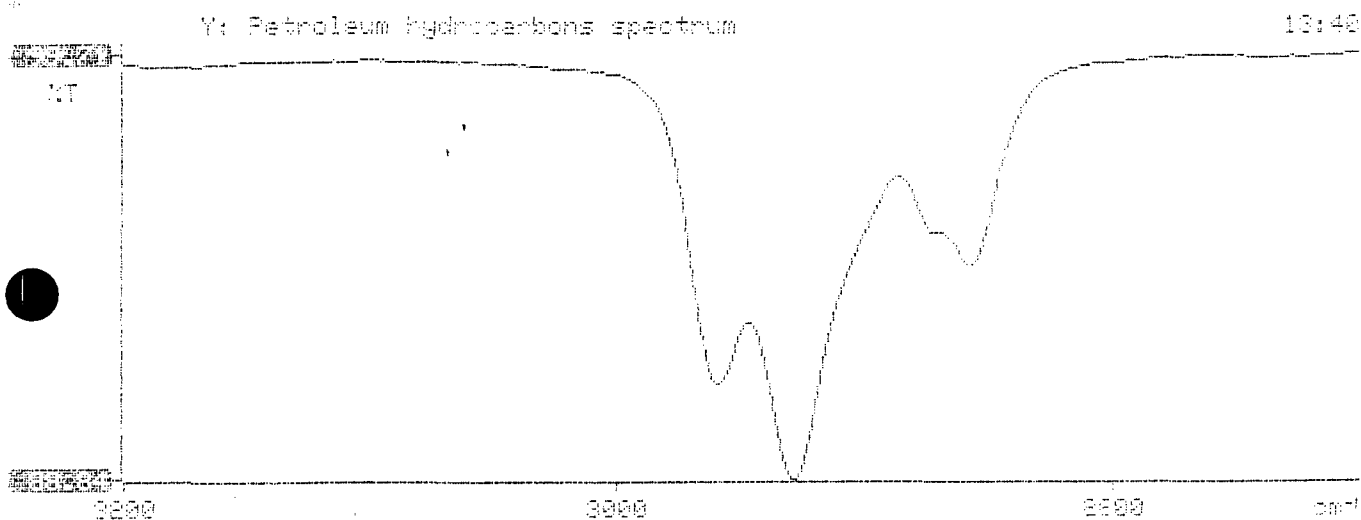
Sample identification  
945949

Initial mass of sample, g  
2.050

Volume of sample after extraction, ml  
25.000

Petroleum hydrocarbons, ppm  
348.496

Net absorbance of hydrocarbons (2930 cm<sup>-1</sup>)  
0.050





Analytical **Technologies**, Inc.

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

ATI I.D. 408380

August 24, 1994

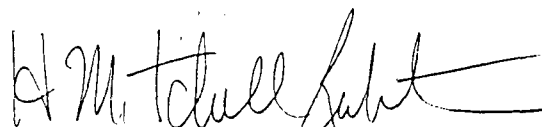
El Paso Natural Gas Company  
P.O. Box 4990  
Farmington, NM 87499

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

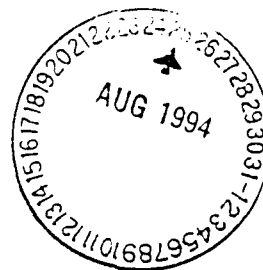
On 08/19/94, Analytical Technologies, Inc., (ADHS License No. AZ0015), received a request to analyze **non-aqueous** samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

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:jt

Enclosure





## GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)  
CLIENT : El PASO NATURAL GAS CO. ATI I.D.: 408380  
PROJECT # : 24324  
PROJECT NAME : PIT CLOSURE

| SAMPLE<br>ID. # | CLIENT I.D. | MATRIX | DATE<br>SAMPLED | DATE<br>EXTRACTED | DATE<br>ANALYZED | DIL.<br>FACTOR |
|-----------------|-------------|--------|-----------------|-------------------|------------------|----------------|
| 01              | 945945      | NON-AQ | 08/16/94        | 08/22/94          | 08/22/94         | 10             |
| 02              | 945946      | NON-AQ | 08/16/94        | 08/22/94          | 08/22/94         | 20             |
| 03              | 945949      | NON-AQ | 08/17/94        | 08/22/94          | 08/22/94         | 20             |
| PARAMETER       |             |        | UNITS           | 01                | 02               | 03             |
| BENZENE         |             |        | MG/KG           | 4.5               | <0.5             | <0.5           |
| TOLUENE         |             |        | MG/KG           | 22                | 15               | 42             |
| ETHYLBENZENE    |             |        | MG/KG           | 1.6               | 8.4              | 4.9            |
| TOTAL XYLENES   |             |        | MG/KG           | 52                | 93               | 52             |

## SURROGATE:

BROMOFLUOROBENZENE (%) 65\* 74 135\*

\*OUTSIDE ATI QUALITY CONTROL LIMITS DUE TO MATRIX INTERFERENCE



CHAIN OF CUSTODY RECORD

Page \_\_\_\_\_ of \_\_\_\_\_

| PROJECT NUMBER                         |         | PROJECT NAME                                                   |        | Pit Closure Project # 24324 |                             | DATE: 8/17/94            |               | CONTRACT LABORATORY P. O. NUMBER |                    |                              |                                        |
|----------------------------------------|---------|----------------------------------------------------------------|--------|-----------------------------|-----------------------------|--------------------------|---------------|----------------------------------|--------------------|------------------------------|----------------------------------------|
| SAMPLERS: (Signature)                  |         | Henry Deaver                                                   |        | Henry Deaver                |                             | Henry Deaver             |               |                                  |                    |                              |                                        |
| LAB ID                                 | DATE    | TIME                                                           | MATRIX | SAMPLE NUMBER               | TOTAL NUMBERS OF CONTAINERS | SAMPLE TYPE              | TPH EPA 418.1 | BTEX EPA 8020                    | REQUESTED ANALYSIS | REMARKS                      |                                        |
| 945949                                 | 8/17/94 | 1230                                                           | Soil   | KD 218                      | 1                           | VC                       | X             | X                                |                    | 198                          |                                        |
| 945950                                 | 8/17/94 | 1605                                                           | Soil   | KD 219                      | 1                           | VC                       | X             | X                                |                    | 199                          |                                        |
| 945951                                 | 8/17/94 | 1605                                                           | Soil   | KD 220                      | 1                           | D                        | X             | X                                |                    |                              |                                        |
| 945952                                 | 8/17/94 | 1610                                                           | Soil   | KD 221                      | 1                           | B                        | X             | X                                |                    |                              |                                        |
| [Large diagonal line across the table] |         |                                                                |        |                             |                             |                          |               |                                  |                    |                              |                                        |
| RELINQUISHED BY: (Signature)           |         | Henry Deaver                                                   |        | DATE/TIME 8/17/94 1825      |                             | RECEIVED BY: (Signature) |               | Mendel Less                      |                    | DATE/TIME 8/18/94 0900       | RECEIVED BY: (Signature)               |
| RELINQUISHED BY: (Signature)           |         |                                                                |        | DATE/TIME                   |                             | RECEIVED BY: (Signature) |               |                                  |                    | DATE/TIME                    | RECEIVED OF LABORATORY BY: (Signature) |
| REQUESTED TURNAROUND TIME:             |         | <input type="checkbox"/> ROUTINE <input type="checkbox"/> RUSH |        | SAMPLE RECEIPT REMARKS      |                             | RESULTS & INVOICES TO:   |               | FIELD SERVICES LABORATORY        |                    | EL PASO NATURAL GAS COMPANY  |                                        |
| CARRIER CO.                            |         |                                                                |        |                             |                             |                          |               | P. O. BOX 4990                   |                    | FARMINGTON, NEW MEXICO 87499 |                                        |
| BILL NO.:                              |         |                                                                |        | CHARGE CODE                 |                             | 505-599-2144             |               | 505-599-2261                     |                    | FAX: 505-599-2261            |                                        |

# RECORD OF SUBSURFACE EXPLORATION

PHILIP ENVIRONMENTAL SERVICES INC.

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

Borehole # BH-1  
Well #  
Page of



Project Name EPFS GW PITS  
Project Number 17520 Phase 6001.77  
Project Location Charley Park N 2 70804

Elevation  
Borehole Location T27-R9-S12-Ltr B  
GWL Depth  
Logged By CM Chance  
Drilled By K. Padilla  
Date/Time Started 2/10/97-0945  
Date/Time Completed 2/10/97-1045

Well Logged By CM Chance  
Personnel On-Site D. Cesack, R. Chusley, S. Marez  
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<br>Classification System: USCS                                                       | USCS Symbol | Depth Lithology Change (feet) | Air Monitoring<br>Units: PPM<br>BZ BH |     | Drilling Conditions & Blow Counts |
|--------------|---------------|-----------------|---------------------------------|---------------------------------------------------------------------------------------------------------|-------------|-------------------------------|---------------------------------------|-----|-----------------------------------|
| 0            |               |                 |                                 | Backfill to 12'                                                                                         |             |                               |                                       |     |                                   |
| 5            |               |                 |                                 |                                                                                                         |             |                               |                                       |     |                                   |
| 10           |               |                 |                                 |                                                                                                         |             |                               |                                       |     |                                   |
| 15           | 1             | 15-17           | 24                              | Br silty CLAY, med stiff, med-high plastic, dry<br>Ltgry-Br SAND, VF-F sand, loose, v. moist            |             |                               | 0                                     | 0   | 0 - 0953h<br>- GW @ 16.4' BGS     |
| 20           | 2             | 20-22           | 24                              | Br silty CLAY, med stiff, med-high plastic, tr xtn parting<br>Br clay SAND, VF-F sand, loose, saturated |             |                               |                                       | 6/2 | - 1000h                           |
| 25           |               |                 |                                 | TOB 22'                                                                                                 |             |                               |                                       |     |                                   |
| 30           |               |                 |                                 |                                                                                                         |             |                               |                                       |     |                                   |
| 35           |               |                 |                                 |                                                                                                         |             |                               |                                       |     |                                   |
| 40           |               |                 |                                 |                                                                                                         |             |                               |                                       |     |                                   |

Comments:

Hit GW @ 19'. GW rose to 16.4' after 10 min. CMCA99 collected from 20-22' & submitted to lab (GTEx, TPN) Bentonite added to boring & then grouted to surface (BENTONITE)

Geologist Signature

CM Chance

**FIELD SERVICES LABORATORY  
ANALYTICAL REPORT****SAMPLE IDENTIFICATION**

|                            |                          |                          |
|----------------------------|--------------------------|--------------------------|
|                            | Field ID                 | Lab ID                   |
| SAMPLE NUMBER:             | <b>CMC299</b>            | 970079                   |
| MTR CODE   SITE NAME:      | 70804                    | Charley Pah #2           |
| SAMPLE DATE   TIME (Hrs):  | 2/10/97                  | 1000                     |
| PROJECT:                   | Phase II Drilling 20-22' |                          |
| DATE OF TPH EXT.   ANAL.:  | 2/13/97                  | 2/13/97                  |
| DATE OF BTEX EXT.   ANAL.: | 2/14/97                  | 2/14/97                  |
| TYPE   DESCRIPTION:        | VG                       | Gray/brown speckled clay |

Field Remarks: \_\_\_\_\_

**RESULTS**

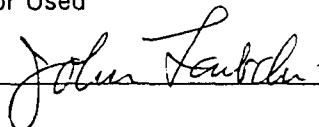
| PARAMETER             | RESULT | UNITS | QUALIFIERS |   |      |       |
|-----------------------|--------|-------|------------|---|------|-------|
|                       |        |       | DF         | Q | M(g) | V(ml) |
| <b>BENZENE</b>        | <0.5   | MG/KG |            |   |      |       |
| <b>TOLUENE</b>        | <0.5   | MG/KG |            |   |      |       |
| <b>ETHYL BENZENE</b>  | <0.5   | MG/KG |            |   |      |       |
| <b>TOTAL XYLENES</b>  | <1.5   | MG/KG |            |   |      |       |
| <b>TOTAL BTEX</b>     | <3     | MG/KG |            |   |      |       |
| <b>TPH (418.1)</b>    | <10    | MG/KG |            |   | 2.48 | 28    |
| <b>HEADSPACE PID</b>  | 2      | PPM   |            |   |      |       |
| <b>PERCENT SOLIDS</b> | 79.0   | %     |            |   |      |       |

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

The Surrogate Recovery was at 92.7 % for this sample All QA/QC was acceptable.  
Narrative: \_\_\_\_\_

DF = Dilution Factor Used

Approved By: \_\_\_\_\_



Date: \_\_\_\_\_

2-25-97



EL PASO FIELD SERVICES LABORATORY  
EPA METHOD 8020 - BTEX

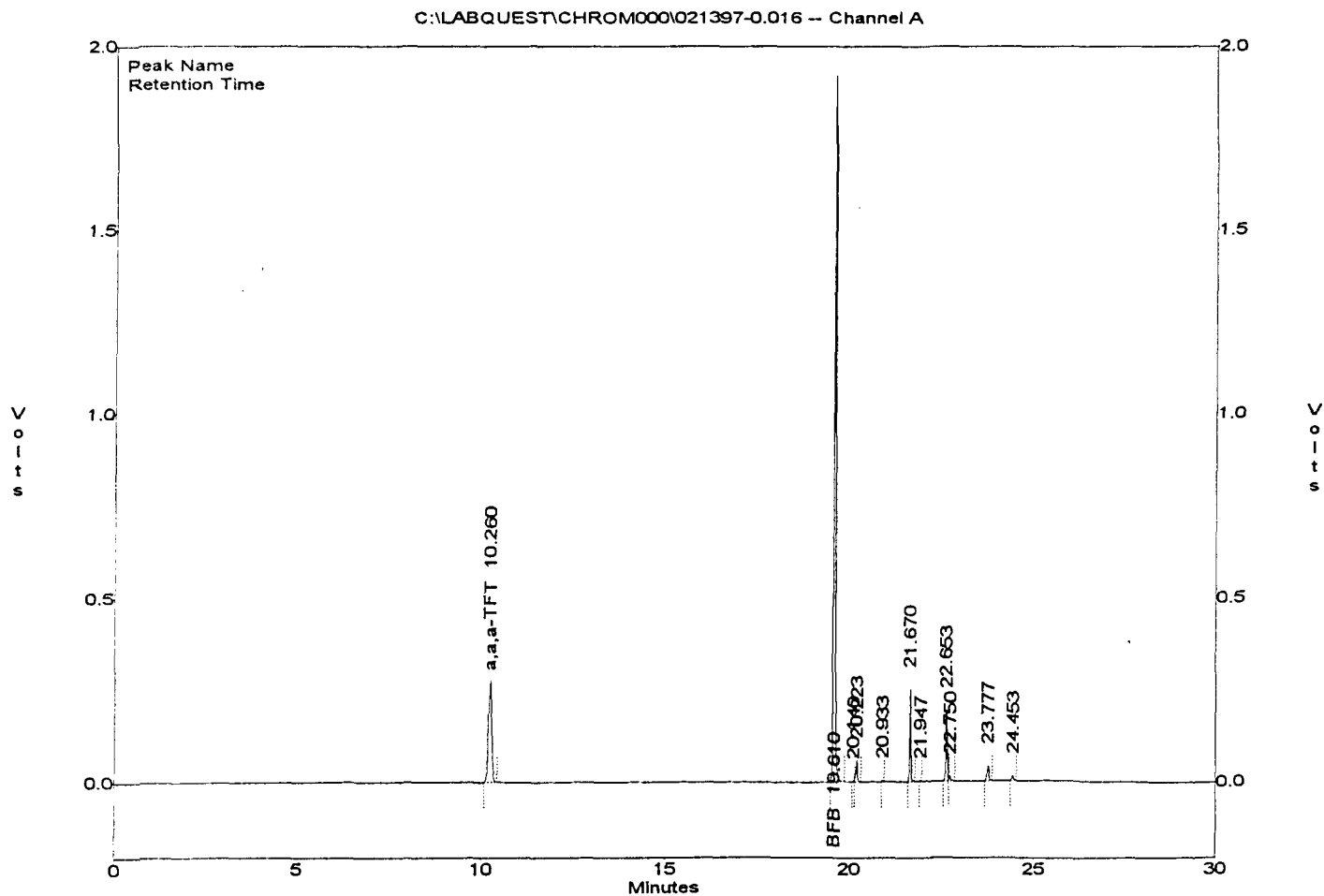
File : C:\LABQUEST\CHROM000\021397-0.016  
Method : C:\LABQUEST\METHODS\0-021297.MET  
Sample ID : 970079,5.54G,50U  
Acquired : Feb 14, 1997 02:26:44  
Printed : Feb 14, 1997 02:57:11  
User : MARLON

Channel A Results

| COMPONENT    | RET TIME | AREA    | CONC (ug/L) |
|--------------|----------|---------|-------------|
| BENZENE      | 8.050    | 0       | 0.0000      |
| a,a,a-TFT    | 10.260   | 1769730 | 93.7760     |
| TOLUENE      | 12.567   | 0       | 0.0000      |
| ETHYLBENZENE | 16.790   | 0       | 0.0000      |
| M,P-XYLENES  | 17.170   | 0       | 0.0000      |
| O-XYLENE     | 18.310   | 0       | 0.0000      |
| BFB          | 19.610   | 6772550 | 92.7127     |

Channel A Group Results

| COMPONENT     | RET TIME | AREA | CONC (ug/L) |
|---------------|----------|------|-------------|
| TOTAL XYLENES |          | 0    | 0.0000      |



# BTEX SOIL SAMPLE WORKSHEET

|                      |   |        |                         |   |         |
|----------------------|---|--------|-------------------------|---|---------|
| File                 | : | 970079 | Date Printed            | : | 2/18/97 |
| Soil Mass (g)        | : | 5.54   | Multiplier (L/g)        | : | 0.00090 |
| Extraction vol. (mL) | : | 10     | CAL FACTOR (Analytical) | : | 200     |
| Shot Volume (uL)     | : | 50     | CAL FACTOR (Report)     | : | 0.18051 |

|                     |   | DILUTION FACTOR: | 1                      | Det. Limit  |
|---------------------|---|------------------|------------------------|-------------|
| Benzene (ug/L)      | : | 0.00             | Benzene (mg/Kg):       | 0.000 0.451 |
| Toluene (ug/L)      | : | 0.00             | Toluene (mg/Kg):       | 0.000 0.451 |
| Ethylbenzene (ug/L) | : | 0.00             | Ethylbenzene (mg/Kg):  | 0.000 0.451 |
| p & m-xylene (ug/L) | : | 0.00             | p & m-xylene (mg/Kg):  | 0.000 0.903 |
| o-xylene (ug/L)     | : | 0.00             | o-xylene (mg/Kg):      | 0.000 0.451 |
|                     |   |                  | Total xylenes (mg/Kg): | 0.000 1.354 |
|                     |   |                  | Total BTEX (mg/Kg):    | 0.000       |

\*\*\*\*\*  
\* Test Method for  
\* Oil and Grease and Petroleum Hydrocarbons  
\* in Water and Soil  
\*\*\*\*\*

Perkin-Elmer Model 1600 FT-IR  
Analysis Report  
\*\*\*\*\*

97/02/13 14:52

\* Sample identification  
970079

\* Initial mass of sample, g  
2.480

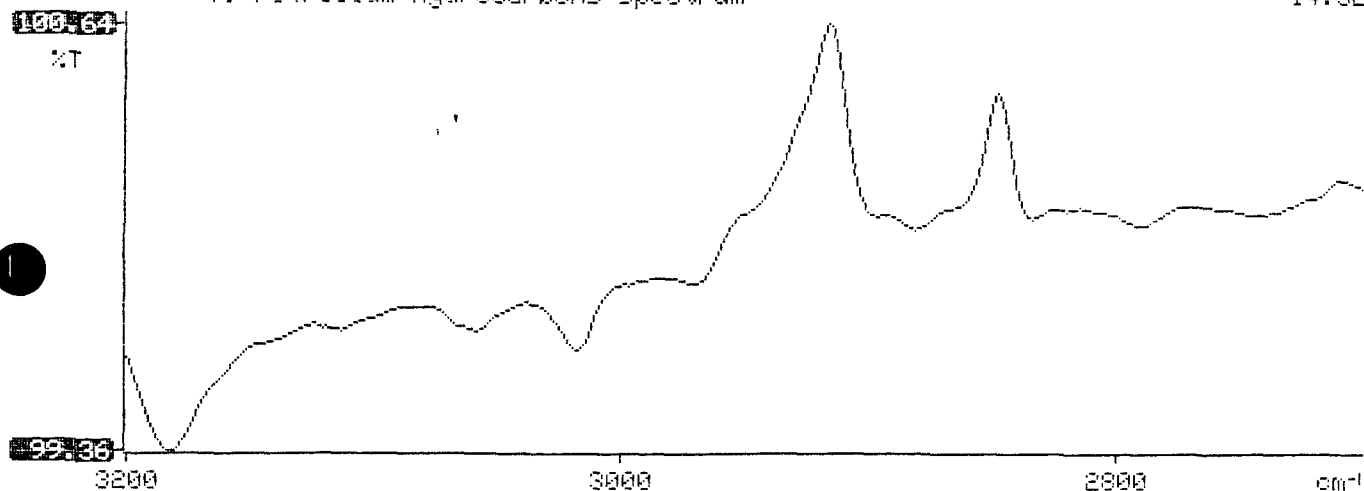
\* Volume of sample after extraction, ml  
28.000

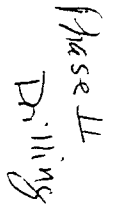
\* Petroleum hydrocarbons, ppm  
-8.789

\* Net absorbance of hydrocarbons (2930 cm<sup>-1</sup>)  
0.155  
\*  
\*  
\*

Y: Petroleum hydrocarbons spectrum

14:52





## CHAIN OF CUSTODY RECORD

B-26

[illegible]