

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

DEC 2 1 1998

Approved

VALENCIA CANYON #1
Meter/Line ID - 89058

RECEIVED
JUL 2 1998

SITE DETAILS

Legals - Twn: 28 Rng: 04 Sec: 23
NMOCD Hazard Ranking: 20
Operator: AMOCO PRODUCTION COMPANY

Unit: M
Land Type: 2 - Federal

OIL CON. DIV.
DIST. 3

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 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.

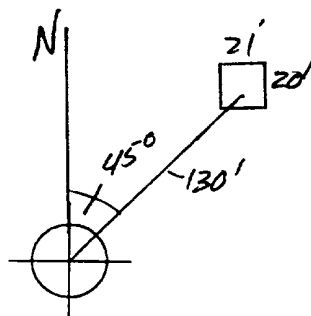
FIELD PIT SITE ASSESSMENT FORM

| | |
|-----------------|--|
| GENERAL | <p>Meter: <u>89058</u> Location: <u>VALENCIA CANYON #1</u></p> <p>Operator #: <u>0203</u> Operator Name: <u>AMOCO</u> P/L District: <u>BLOOMFIELD</u></p> <p>Coordinates: Letter: <u>M</u> Section <u>23</u> Township: <u>28</u> Range: <u>4</u></p> <p>Or Latitude _____ Longitude _____</p> <p>Pit Type: Dehydrator _____ Location Drip: <u>X</u> Line Drip: _____ Other: _____</p> <p>Site Assessment Date: <u>5-15-94</u> Area: <u>10</u> Run: <u>62</u></p> |
| SITE ASSESSMENT | <p>NMOCD Zone: (From NMOCD Maps)</p> <p>Inside <input checked="" type="checkbox"/> (1) Outside <input type="checkbox"/> (2)</p> <p>Land Type: BLM <input 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 type="checkbox"/> (2) Greater Than 1000 Ft (0 points) <input checked="" type="checkbox"/> (3)</p> <p>Name of Surface Water Body _____</p> <p>(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>20</u> POINTS</p> |
| REMARKS | <p>Remarks : <u>TWO PITS ON LOCATION, ONE PIT TO CLOSE</u></p> <p>_____</p> <p>_____</p> <p>_____</p> |

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 45° Footage from Wellhead 130'
b) Length : 21 Width : 20 Depth : 3'



REMARKS

Remarks :

PHOTOGRAPHS AH-6 (19-22)

Completed By:



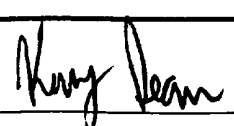
Signature

5-15-94

Date

PHASE I EXCAVATION

FIELD PIT REMEDIATION/CLOSURE FORM

| | |
|---------------------------|--|
| GENERAL | Meter: <u>89058</u> Location: <u>Valencia Canyon unit #1</u> Coordinates: Letter: <u>M</u> Section <u>23</u> Township: <u>28</u> Range: <u>4</u> Or Latitude _____ Longitude _____ Date Started : <u>6-30-94</u> Area: <u>10</u> Run: <u>62</u> |
| FIELD OBSERVATIONS | Sample Number(s): <u>KD123</u> Sample Depth: <u>12'</u> Feet Final PID Reading <u>536 ppm</u> PID Reading Depth <u>12'</u> Feet <div style="text-align: center;">Yes No</div> Groundwater Encountered <input type="checkbox"/> (1) <input checked="" type="checkbox"/> (2) Approximate Depth _____ Feet |
| CLOSURE | Remediation Method : Excavation <input checked="" type="checkbox"/> (1) Approx. Cubic Yards <u>70</u> Onsite Bioremediation <input type="checkbox"/> (2) Backfill Pit Without Excavation <input type="checkbox"/> (3) Soil Disposition: Envirotech <input type="checkbox"/> (1) <input checked="" type="checkbox"/> (3) Tierra Other Facility <input type="checkbox"/> (2) Name: _____ Pit Closure Date: <u>6-30-94</u> Pit Closed By: <u>BEI</u> |
| REMARKS | Remarks : <u>Excavated pit to 12', took P.D Sample, closed pit.</u> _____ _____ |
| | Signature of Specialist: <u></u> |



FIELD SERVICES LABORATORY

ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

| | Field ID | Lab ID |
|----------------------------|------------------------|-----------------|
| SAMPLE NUMBER: | KD 123 RLB 9/26/95 | 945561 |
| MTR CODE SITE NAME: | 89053 89058 | N/A |
| SAMPLE DATE TIME (Hrs): | 6-30-94 | 1000 |
| SAMPLED BY: | N/A | |
| DATE OF TPH EXT. ANAL.: | 7/7/94 | 7/7/94 |
| DATE OF BTEX EXT. ANAL.: | 7/8/94 | 7/11/94 |
| TYPE DESCRIPTION: | YC | Brown Sand/Clay |

REMARKS:

RESULTS

| PARAMETER | RESULT | UNITS | QUALIFIERS | | | |
|----------------|-----------------------------|-------|------------|---|------|-------|
| | | | DF | Q | M(g) | V(ml) |
| BENZENE | 4.5 | MG/KG | 50 | | | |
| TOLUENE 200 | 2000-400 7/25/94 | MG/KG | 50 | | | |
| ETHYL BENZENE | 30 | MG/KG | 50 | | | |
| TOTAL XYLENES | 320 | MG/KG | 50 | | | |
| TOTAL BTEX | 555 | MG/KG | | | | |
| TPH (413.1) | 3160 | MG/KG | | | 2.02 | 28 |
| HEADSPACE PID | 536 | PPM | | | | |
| PERCENT SOLIDS | 82.4 | % | | | | |

- TPH is by EPA Method 413.1 and BTEX is by EPA Method 8020 -

The Surrogate Recovery was at 180 % for this sample All QA/QC was acceptable.

Narrative:

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

DF = Dilution Factor Used

JL

8/8/94

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

Perkin-Elmer Model 1400 FT-IR
Analysis Report
*****

Sample # 1017 10176
Sample - Identification
048581

Initial mass of sample, g
0.000

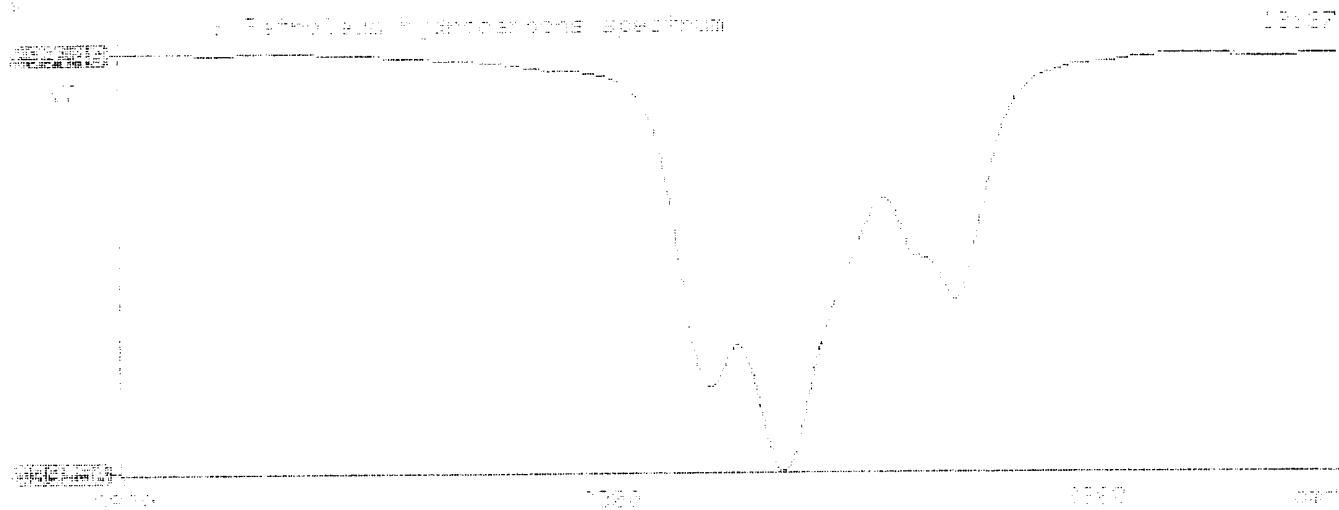
Volume of sample after extraction, ml
52.000

Petroleum hydrocarbons, ppm
3156.247

Net absorbance of hydrocarbons (2930 cm-1)
0.400

: Petroleum hydrocarbons spectrum

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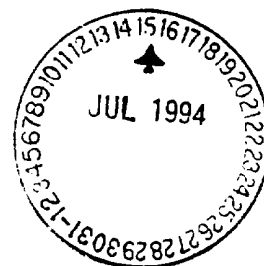




Analytical **Technologies**, Inc.

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

ATI I.D. **407327**



July 14, 1994

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

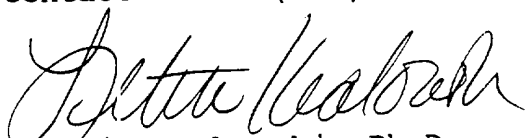
Project Name/Number: PIT CLOSURE 24324

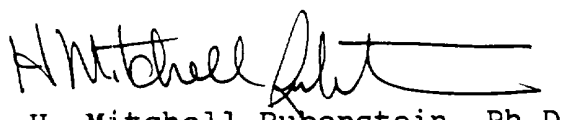
Attention: John Lambdin

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 evaluated 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



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 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 Valencia Canyon #1 89058

Well Logged By CM Chance

Personnel On-Site K Padilla, D. Charlie

Contractors On-Site

Client Personnel On-Site

Drilling Method 4 1/4" ID HSA

Air Monitoring Method PID, CGI

Elevation

Borehole Location QM - S23 - T28 - R4

GWL Depth

Logged By CM CHANCE

Drilled By K Padilla

Date/Time Started 11/2/95-1110

Date/Time Completed 11/2/95-1150

| 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 Σ BZ BH HS | | | Drilling Conditions & Blow Counts |
|-----------------|------------------|--------------------|--|---|----------------|--|---|---|---|--------------------------------------|
| 0 | | | | | | | | | | |
| 5 | | | | CTNGS - Br sandy CLAY | | | | | | |
| 10 | | | | SAT | | | | | | |
| 15 | 1 | 15-17 | 10 | Br sandy CLAY, w/sand, soft, med plastic, dry | | | 0 | 0 | 0 | 1119 |
| 20 | | | | TDB 17' | | | | | | |
| 25 | | | | | | | | | | |
| 30 | | | | | | | | | | |
| 35 | | | | | | | | | | |
| 40 | | | | | | | | | | |

Comments:

Former pit has tank on it & fence around tank. Will drill outside & down slope of fence. Pit was excavated to 12', so will collect 1st sample @ 15'. Drilled on W. side of pit ~ 5' from fence. CMC 175 (15-17') sent to lab (BTEX, TPH). BH grouted to surface.

Geologist Signature

CM Chance



FIELD SERVICES LABORATORY
ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

| | Field ID | Lab ID |
|----------------------------|-------------------|------------------------|
| SAMPLE NUMBER: | CMC 175 | 947732 |
| MTR CODE SITE NAME: | 89058 | Valencia Canyon #1 |
| SAMPLE DATE TIME (Hrs): | 11-2-95 | 1119 |
| PROJECT: | Phase II Drilling | |
| DATE OF TPH EXT. ANAL.: | 11-6-95 | |
| DATE OF BTEX EXT. ANAL.: | 11/6/95 | 11/6/95 |
| TYPE DESCRIPTION: | V6 | DARK BROWN SAND & CLAY |

Field Remarks:

RESULTS

| PARAMETER | RESULT | UNITS | QUALIFIERS | | | |
|----------------|--------|-------|------------|---|------|-------|
| | | | DF | Q | M(g) | V(ml) |
| BENZENE | < 0.5 | MG/KG | | | | |
| TOLUENE | < 0.5 | MG/KG | | | | |
| ETHYL BENZENE | < 0.5 | MG/KG | | | | |
| TOTAL XYLENES | < 1.5 | MG/KG | | | | |
| TOTAL BTEX | < 3 | MG/KG | | | | |
| TPH (418.1) | < 10 | MG/KG | | | 1.99 | 28 |
| HEADSPACE PID | 0 | PPM | | | | |
| PERCENT SOLIDS | 87.1 | % | | | | |

-- 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:

DF = Dilution Factor Used

Approved By: 

Date: 11/8/95

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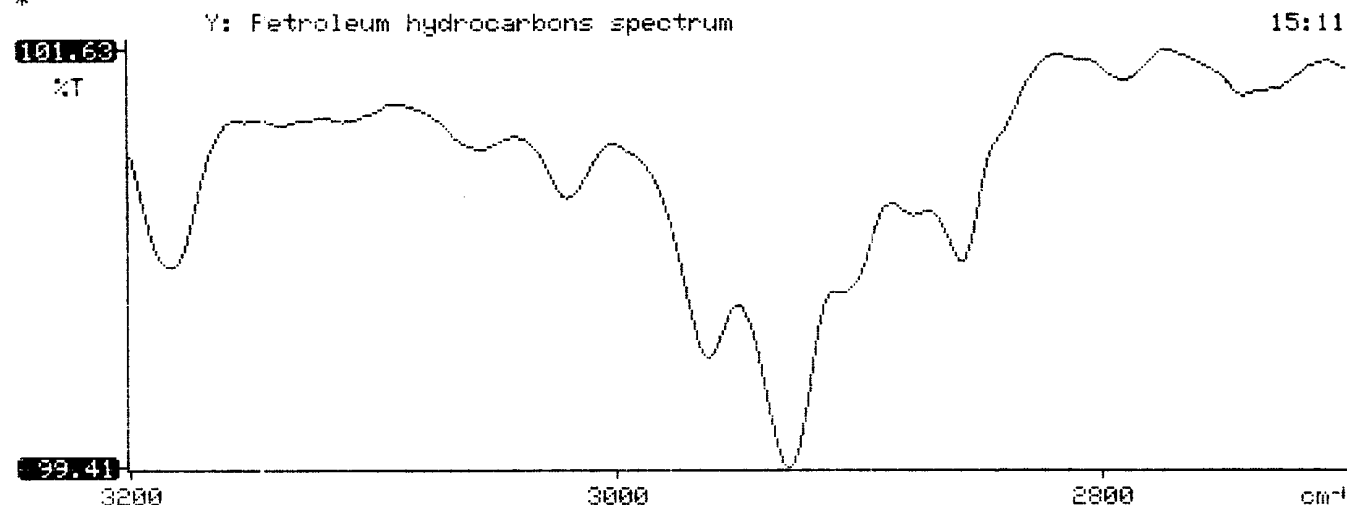
*****
*                               *
*       Test Method for         *
*       Oil and Grease and Petroleum Hydrocarbons *
*       in Water and Soil      *
*                               *
*       Perkin-Elmer Model 1600 FT-IR *
*       Analysis Report         *
*                               *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

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```

* 95/11/06 15:11
*
* Sample identification
* 947732
*
* Initial mass of sample, g
* 1.990
*
* Volume of sample after extraction, ml
* 28.000
*
* Petroleum hydrocarbons, ppm
* -16.874
* Net absorbance of hydrocarbons (2930 cm-1)
* 0.008
*
*
*

```



BTEX SOIL SAMPLE WORKSHEET

| | | | | | |
|--------------------------------|----------|---------------|----------------------------------|--------------|-------------------|
| File | : | 947732 | Date Printed | : | 11/7/95 |
| Soil Mass (g) | : | 4.95 | Multiplier (L/g) | : | 0.00101 |
| Extraction vol. (mL) | : | 10 | CAL FACTOR (Analytical): | | 200 |
| Shot Volume (uL) | : | 50 | CAL FACTOR (Report): | | 0.20202 |
| | | | DILUTION FACTOR: | 1 | Det. Limit |
| Benzene (ug/L) | : | 0.12 | Benzene (mg/Kg): | 0.024 | 0.505 |
| Toluene (ug/L) | : | 0.37 | Toluene (mg/Kg): | 0.075 | 0.505 |
| Ethylbenzene (ug/L) | : | 0.00 | Ethylbenzene (mg/Kg): | 0.000 | 0.505 |
| p & m-xylene (ug/L) | : | 0.23 | p & m-xylene (mg/Kg): | 0.046 | 1.010 |
| o-xylene (ug/L) | : | 0.10 | o-xylene (mg/Kg): | 0.020 | 0.505 |
| | | | Total xylenes (mg/Kg): | 0.067 | 1.515 |
| | | | Total BTEX (mg/Kg): | 0.166 | |

EL PASO NATURAL GAS

EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM000\110695-0.021
 Method : C:\LABQUEST\METHODS\0-110295.MET
 Sample ID : 947732,4.95G,50U
 Acquired : Nov 07, 1995 05:26:37
 Printed : Nov 07, 1995 05:56:59
 User : MARLON

Channel A Results

| COMPONENT | RET TIME | AREA | CONC (ug/L) |
|--------------|----------|----------|-------------|
| BENZENE | 8.413 | 58527 | 0.1200 |
| a,a,a-TFT | 10.660 | 9786233 | 109.1343 |
| TOLUENE | 13.033 | 200340 | 0.3715 |
| ETHYLBENZENE | 17.303 | 0 | 0.0000 |
| M,P-XYLENES | 17.693 | 123705 | 0.2262 |
| O-XYLENE | 18.870 | 45204 | 0.0994 |
| BFB | 19.893 | 54888368 | 103.8427 |

C:\LABQUEST\CHROM000\110695-0.021 -- Channel A

