

SAN JUAN 29-6 UNIT #61A  
Meter/Line ID - 89571RECEIVED  
JUL 2 1998

Legals - Twn: 26

Rng: 06

Sec: 19

Unit: C

NMOCD Hazard Ranking: 40

Land Type: 4 - Fee

Operator: PHILLIPS PETROLEUM COMPAN

OIL CON. DIV.  
PIT 2  
Pit Closure Date: 07/26/95

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**RATIONALE FOR RISK-BASED CLOSURE:**

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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.

## GENERAL

Meter: 89571 Location: San Juan 29-6 unit #61A  
 Operator #: \_\_\_\_\_ Operator Name: Phillips P/L District: Bloomfield  
 Coordinates: Letter: C Section 19 Township: 26 Range: 06  
 Or Latitude \_\_\_\_\_ Longitude \_\_\_\_\_  
 Pit Type: Dehydrator ☒ Location Drip: \_\_\_\_\_ Line Drip: \_\_\_\_\_ Other: \_\_\_\_\_  
 Site Assessment Date: 3/7/95 Area: 10 Run: 61

## SITE ASSESSMENT

## NMOCD Zone:

(From NMOCD  
Maps)

Inside

Outside

## 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 Gobernador Wash

(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: 40 POINTS

## REMARK

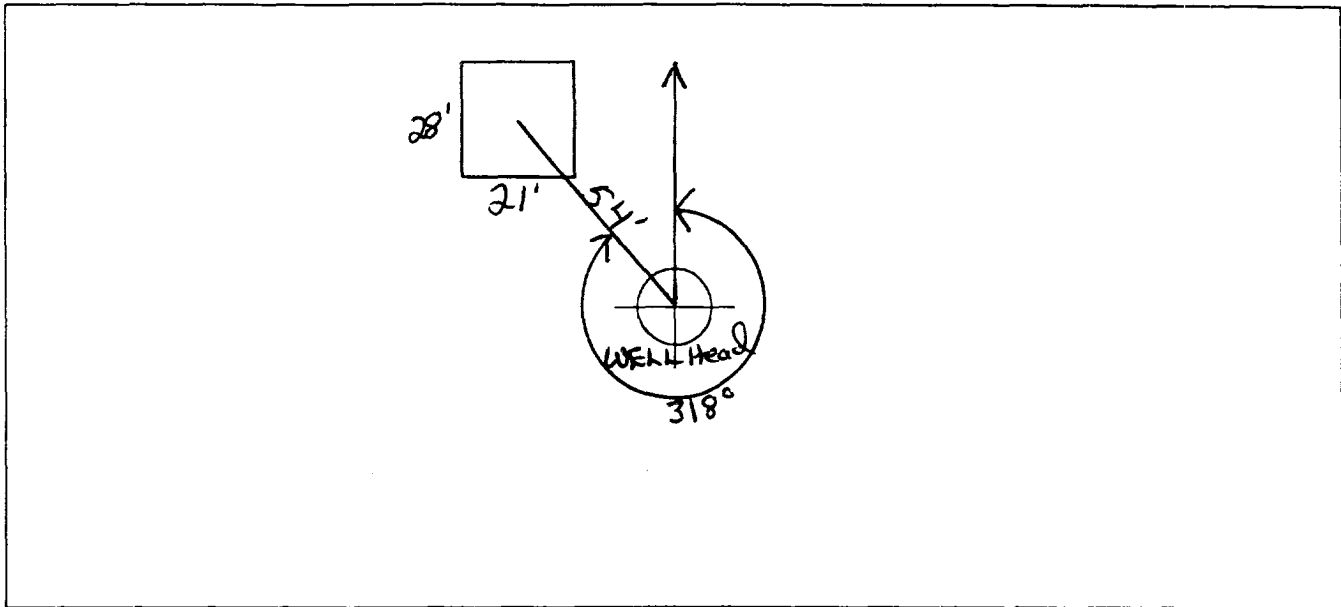
Remarks : Redline shows Inside Topo shows Inside VZ  
Two pits on loc Tank Drip has liner. Will close  
Dehy pit, belongs to EPNG

Dig + Haul

(OPTION) 04/08/94

# ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 318° Footage from Wellhead 54'  
 b) Length : 28' Width : 21' Depth : 3'



Remarks :

Photos : 1119

Completed By:

James J. Penrose

Signature

3/7/95

Date

# **PHASE I EXCAVATION**

# FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	<p>Meter: <u>89571</u> Location: <u>SAN JUAN 29-6 unit #61A</u></p> <p>Coordinates: Letter: <u>C</u> Section <u>19</u> Township: <u>29</u> Range: <u>06</u></p> <p>Or Latitude _____ Longitude _____</p> <p>Date Started : <u>7-25-95</u> Run: <u>10</u> <u>61</u></p>
FIELD OBSERVATIONS	<p>Sample Number(s): <u>MK 451</u></p> <p>Sample Depth: <u>12'</u> Feet</p> <p>Final PID Reading <u>231</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>140 CY</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>7-26-95</u> Pit Closed By: <u>Philip</u></p>
REMARKS	<p>Remarks : <u>Arrived dug sample hole pit was HOT</u></p> <p><u>Soil was black 1st 6" then it turn brown But it</u></p> <p><u>still had strong Hydrocarbon odor</u></p> <p>Signature of Specialist: <u>Morgan Killion</u></p>



## FIELD SERVICES LABORATORY

## ANALYTICAL REPORT

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

## SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	MK451	947093
MTR CODE   SITE NAME:	89571	N/A
SAMPLE DATE   TIME (Hrs):	07-26-95	13:00
SAMPLED BY:	N/A	
DATE OF TPH EXT.   ANAL.:	07-27-95	07-27-95
DATE OF BTEX EXT.   ANAL.:	8-1-95	8-4-95
TYPE   DESCRIPTION:	VC	

REMARKS:

## RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	40.5	MG/KG	20			
TOLUENE	4.2	MG/KG	20			
ETHYL BENZENE	3.1	MG/KG	20			
TOTAL XYLENES	48	MG/KG	20			
TOTAL BTEX	53.3	MG/KG				
TPH (418.1)	1950	MG/KG			2.02	28
HEADSPACE PID	231	PPM				
PERCENT SOLIDS	91.0	%				

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

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

Narrative:

ATI Results attached. Surrogate recovery not obtainable  
due to sample dilution.

DF = Dilution Factor Used

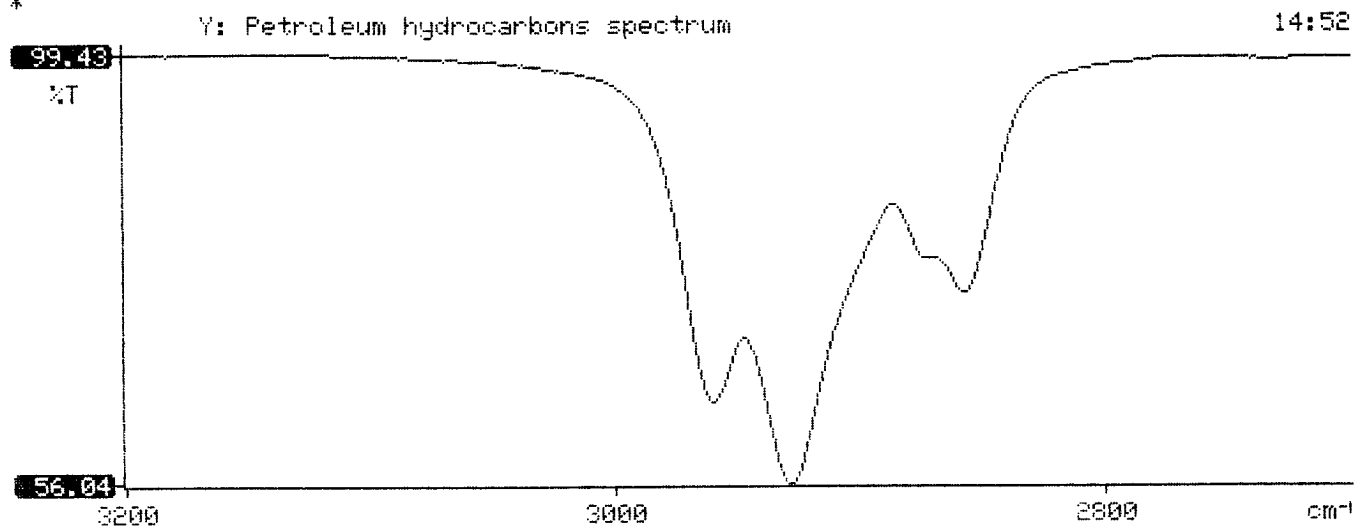
Approved By:

Date:

8/22/95

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

\* 95/07/27 14:52  
\*  
\* Sample identification  
947093  
\*  
\* Initial mass of sample, g  
2.020  
\*  
\* Volume of sample after extraction, ml  
28.000  
\*  
\* Petroleum hydrocarbons, ppm  
1946.104  
\* Net absorbance of hydrocarbons (2930 cm-1)  
0.248  
\*  
\*  
\*





Analytical **Technologies**, Inc.

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

ATI I.D. 508302

August 11, 1995

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

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

Attention: John Lambdin

On 08/01/95, 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.

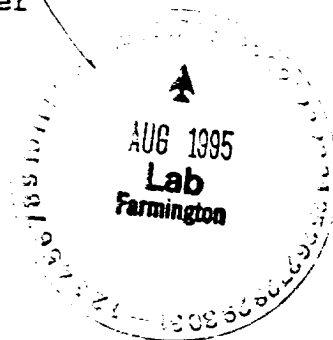
If you have any questions or comments, please do not hesitate to contact us at (505) 344-3777.

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.: 508302  
PROJECT # : 24324  
PROJECT NAME : PIT CLOSURE/PHASE I & II

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
07	947089	NON-AQ	07/26/95	08/01/95	08/03/95	1
08	947090	NON-AQ	07/26/95	08/01/95	08/03/95	1
09	947093	NON-AQ	07/26/95	08/01/95	08/04/95	20

PARAMETER	UNITS	07	08	09
BENZENE	MG/KG	<0.025	<0.025	<0.5
TOLUENE	MG/KG	<0.025	<0.025	4.2
ETHYLBENZENE	MG/KG	<0.025	<0.025	3.1
TOTAL XYLENES	MG/KG	<0.025	<0.025	48

## SURROGATE:

BROMOFLUOROBENZENE (%)	103	96	*
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\*SURROGATE RECOVERY NOT OBTAINABLE DUE TO SAMPLE DILUTION

# 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

San Juan 29-b Unit #61A 89571

Elevation

Borehole Location

QC-S19-TA9-R6

GWL Depth

Logged By

CM CHANCE

Drilled By

K Padilla

Date/Time Started

11/3/95-1015

Date/Time Completed

11/3/95-1200

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

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	HS	
0				Backfill to 12'						
5										
10										
15	1	15-17	10	Br SILT, tr vf sand, loose, dry			2	25	531/413	1024h
20	2	20-22	6	AA Br silty clay, med stiff, non-plastic, dry			3	25	577/471	1033
25	3	25-27	5	AA			0	20	202/284	1041
30	4	30-32	4	AA			0	21	87/68	1049
35	5	35-37	5	AA			0	280	93/10	1058
40	6	40-42	5	Br SILT, med dense, dry TDB 42'			3	429	124	1106

Comments:

CMC 178 (40-42') sent to lab (RTEX, TPH). BH grouted to surface  
Sample bagged & iced prior to containerizing

Geologist Signature

CM Chance



## FIELD SERVICES LABORATORY

## ANALYTICAL REPORT

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

## SAMPLE IDENTIFICATION

SAMPLE NUMBER:

Field ID

Lab ID

MTR CODE | SITE NAME:

SAMPLE DATE | TIME (Hrs):

PROJECT:

DATE OF TPH EXT. | ANAL.:

DATE OF BTEX EXT. | ANAL.:

TYPE | DESCRIPTION:

CMC178	947735
89571	San Juan 29-6 Unit #61A
11-3-95	1106
Phase II Drilling	
11-5-95	
11/6/95	11/6/95
V6	LIGHT 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			1.95	28
HEADSPACE PID	4	PPM				
PERCENT SOLIDS	97.0	%				

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

The Surrogate Recovery was at  
Narrative:

112%

for this sample All QA/QC was acceptable.

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              *
*****
*
95/11/06 15:19
*
* Sample identification
947735
*
* Initial mass of sample, g
1.950
*
* Volume of sample after extraction, ml
28.000
*
* Petroleum hydrocarbons, ppm
-57.536
* Net absorbance of hydrocarbons (2930 cm-1)
0.004
*
*
*

```

Y: Petroleum hydrocarbons spectrum

15:19



# BTEX SOIL SAMPLE WORKSHEET

File	:	947735	Date Printed	:	11/7/95
Soil Mass (g)	:	4.99	Multiplier (L/g)	:	0.00100
Extraction vol. (mL)	:	10	CAL FACTOR (Analytical):	:	200
Shot Volume (uL)	:	50	CAL FACTOR (Report):	:	0.20040

		DILUTION FACTOR:	1	Det. Limit
Benzene (ug/L)	:	0.00	Benzene (mg/Kg):	0.000 0.501
Toluene (ug/L)	:	0.55	Toluene (mg/Kg):	0.110 0.501
Ethylbenzene (ug/L)	:	0.00	Ethylbenzene (mg/Kg):	0.000 0.501
p & m-xylene (ug/L)	:	0.27	p & m-xylene (mg/Kg):	0.054 1.002
o-xylene (ug/L)	:	0.00	o-xylene (mg/Kg):	0.000 0.501
			Total xylenes (mg/Kg):	0.054 1.503
			Total BTEX (mg/Kg):	0.164

# NO NATURAL GAS METHOD 8020 - BTEX SOILS

: C:\LABQUEST\CHROM001\110695-1.003  
 : C:\LABQUEST\METHODS\1-110195.MET  
 D : 947735,4.99G,50U  
 : Nov 06, 1995 18:42:47  
 : Nov 06, 1995 19:09:09  
 : MARLON

## A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	5.573	0	0.0000
a,a,a TFT	7.553	4935267	110.3694
TOLUENE	9.703	182397	0.5494
ETHYLBENZENE	13.790	0	0.0000
M & P XYLENE	14.217	94384	0.2691
O XYLENE	15.290	0	0.0000
BFB	16.930	67949424	111.9218

