EL PASO FIELD SERVICES
PRODUCTION PIT CLOSURE

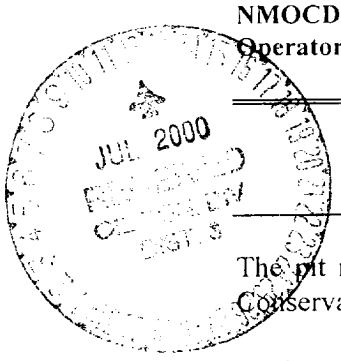
OK

Ada Candelario Well #1
Meter/Line ID – 71801

SITE DETAILS

Legals - Twn: 28N **Rng: 9W** **Sec: 36** **Unit: O**
NMOCD Hazard Ranking: 30 **Land Type: Navajo**
Operator: Amoco **Pit Closure Date: 11/18/95**

Federal



RATIONALE FOR CLOSURE

The pit noted above was assessed and ranked according to the criteria in the New Mexico Oil Conservation Division's (NMOCD) Unlined Surface Impoundment Closure Guidelines.

A Phase I excavation was conducted on August 16, 1994, to 12 feet below ground surface and a soil sample was collected for field headspace analysis and laboratory analysis for benzene, total BTEX, and TPH. Groundwater was not encountered in the test pit. Approximately 50 cubic yards of excavated material was removed for landfarming and sent to an OCD approved centralized site. The pit was backfilled and graded in a manner to direct surface runoff away from the pit area. Headspace analysis indicated an organic vapor content of 573 ppm; laboratory analysis indicated a benzene concentration of 20.5 mg/kg, a total BTEX concentration of 117 mg/kg, and a TPH concentration of 1580 mg/kg. TPH was above required remediation levels for the Hazard Ranking Score.

On November 15, 1995, a Phase II excavation was conducted to 19 feet below ground surface and a soil sample was collected for field headspace analysis and laboratory analysis for benzene, total BTEX, and TPH. Groundwater was not encountered in the test pit. Approximately 326 cubic yards of excavated material was removed for landfarming and sent to an OCD approved centralized site. The pit was backfilled and graded in a manner to direct surface runoff away from the pit area. Headspace analysis indicated an organic vapor content of 429 ppm; laboratory analysis indicated a benzene concentration of <0.5 mg/kg, a total BTEX concentration of <3 mg/kg, and a TPH concentration of 52 mg/kg.

El Paso Field Services Company (EPFS) requests closure of the above mentioned production pit location for the following reasons:

- The primary source, discharge to the pit, has been removed for almost five years.
- The test pit was backfilled and the former pit area graded to direct surface runoff away from the former pit.
- Groundwater was not encountered in the excavations.
- Residual hydrocarbons in the soil will degrade naturally with minimal risk to the environment.
- Based on the Hazard Ranking Score, benzene, total BTEX, and TPH were below required remediation levels for the Hazard Ranking Score.
- Excavated material has been removed from the pit eliminating potential direct contact with livestock and the public.

FIELD PIT SITE ASSESSMENT FORM

9

GENERAL

7-14-94 KGW

Meter: 71801 Location: Ada Candelario Well #1

Operator #: 0203 Operator Name: Amoco P/L District: Ballard

Coordinates: Letter: O Section 36 Township: 28 Range: 9W

Or Latitude _____ Longitude _____

Pit Type: ~~Dehydrator~~ X (KGW 6-9-94) Location Drip: X Line Drip: ___ Other: _____

Site Assessment Date: 6-9-94 Area: 11 Run: 9Z

SITE ASSESSMENT

NMOCD Zone: (From NMOCD Maps) Inside ☒ (1) Outside ☐ (2)

Land Type: BLM ☐ (1) State ☐ (2) Fee ☐ (3) X Indian NAVAJO LAND

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)~~ KGW

Name of Surface Water Body Blanco Canyon

(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: 30 **POINTS**

REMARKS

Remarks : _____

inside V.Z. on Redline & Topo

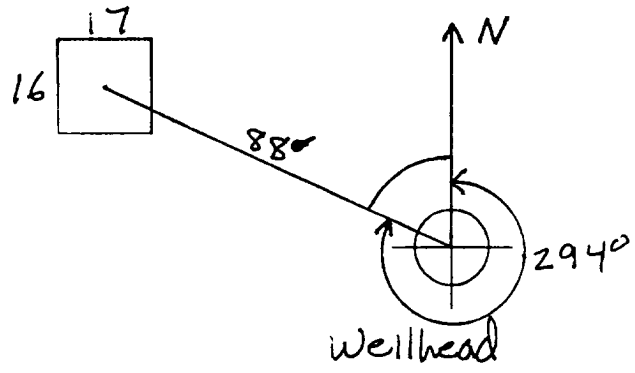
DIG & HAUL

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 294 Footage from Wellhead 88

b) Length : 17 Width : 16 Depth : 4



REMARKS

Remarks : Photos - 1539

Bobtail

Completed By:

Signature

6-9-94

Date

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 71801 Location: ADA Candelario well #1

Coordinates: Letter: O Section 36 Township: 28 Range: 9w

Or Latitude _____ Longitude _____

Date Started : 8/16/94 Run: 11 92

FIELD OBSERVATIONS

Sample Number(s): KD 217 _____ _____ _____

Sample Depth: 12 Feet

Final PID Reading 573 ppm PID Reading Depth 12 Feet

	Yes	No
Groundwater Encountered	☐	☒

Approximate Depth _____ Feet

CLOSURE

Remediation Method :

Excavation	☒	Approx. Cubic Yards 50
Onsite Bioremediation	☐	
Backfill Pit Without Excavation	☐	

Soil Disposition:

Envirotech	☒	☐	Tierra
Other Facility	☐	Name:	

Pit Closure Date: 8/16/94 Pit Closed By: BEI

REMARKS

Remarks : Excavated pit to 12', took PID sample, closed pit.

Signature of Specialist: Kenny Dean

(SP3191) 03/16/94

El Paso Natural Gas Company

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KD217	94594-6
MTR CODE | SITE NAME:	71801	N/A
SAMPLE DATE | TIME (Hrs):	8-16-94	1145
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:	VC	Grey Fine Sand

REMARKS: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	<0.5	MG/KG	20			
TOLUENE	15	MG/KG	20			
ETHYL BENZENE	8.4	MG/KG	20			
TOTAL XYLENES	93	MG/KG	20			
TOTAL BTEX	117	MG/KG				
TPH (418.1)	1580	MG/KG			2.07	28
HEADSPACE PID	573	PPM				
PERCENT SOLIDS	~~88.8~~ 8/19/94 91.1	%				

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

The Surrogate Recovery was at 74 % for this sample All QA/QC was acceptable.

Narrative: ATI results attached.

DF = Dilution Factor Used

Approved By: _____ Date: 9/2/94

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

Analytical Technologies, Inc.

GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)

CLIENT : El PASO NATURAL GAS CO. ATI I.D.: 408380

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. 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

FIELD PIT REMEDIATION/CLOSURE FORM/PHASE II

GENERAL

Meter: 71801 Location: ADA Candelario well #1

Coordinates: Letter: O Section 36 Township: 28 Range: 9W

Or Latitude _____ Longitude _____

Date Started : 11/15/95 Area: 11 Run: 92

FIELD OBSERVATIONS

Sample Number(s): 138 _____ _____ _____

Sample Depth: 19 Feet

Final PID Reading 429.0 PID Reading Depth 19' Feet

Yes No

Groundwater Encountered ☐ (1) ☒ (2) Approximate Depth _____ Feet

Final Dimensions: Length 21 Width 21 Depth 19'

CLOSURE

Remediation Method :

Excavation ☒ (1) Approx. Cubic Yards 326 LT 12/1/95

Onsite Bioremediation ☐ (2)

Backfill Pit Without Excavation ☐ (3)

Overburden Cubic Yards 40 yds

Soil Disposition:

Envirotech ☒ (1) ☐ (3) Tierra

Other Facility ☐ (2) Name: _____

Pit Closure Date: 11-18-95 Pit Closed By: Philip

REMARKS

Remarks : Pit Pid Readings (W-39.7)(S-20.3)(E-10.0)(W-30.1)
More Than 100' From Ephemral stream
No fence No Ehhg on site

Signature of Specialist: James K. Kirby

(SP3195) 05/01/95

El Paso Natural Gas Company

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	JK138	947787
MTR CODE | SITE NAME:	71801	Ada Candelario Well #1
SAMPLE DATE | TIME (Hrs):	11-15-95	1230
PROJECT:	Phase I Navajo	
DATE OF TPH EXT. | ANAL.:	11/17/95	
DATE OF BTEX EXT. | ANAL.:	11/16/95	11/16/95
TYPE | DESCRIPTION:	VG	Grey/brown sand & clay

Field Remarks: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	< 0.5	MG/KG				
TOLUENE	1.7	MG/KG				
ETHYL BENZENE	0.6	MG/KG				
TOTAL XYLENES	5.9	MG/KG				
TOTAL BTEX	8.2	MG/KG				
TPH (418.1)	52	MG/KG			2.05	28
HEADSPACE PID	429.0	PPM				
PERCENT SOLIDS	86.6	%				

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

The Surrogate Recovery was at 86% for this sample All QA/QC was acceptable.

Narrative:

DF = Dilution Factor Used

Approved By: _____ Date: 11/21/95

BTEX SOIL SAMPLE WORKSHEET

File :	947787	**Date Printed** :	11/20/95
Soil Mass (g) :	5.04	**Multiplier (L/g)** :	0.00099
Extraction vol. (mL) :	10	**CAL FACTOR (Analytical):**	200
Shot Volume (uL) :	50	**CAL FACTOR (Report):**	0.19841

		DILUTION FACTOR:	**1**	**Det. Limit**
Benzene (ug/L) :	0.00	**Benzene (mg/Kg):**	**0.000**	0.496
Toluene (ug/L) :	8.42	**Toluene (mg/Kg):**	**1.671**	0.496
Ethylbenzene (ug/L) :	2.97	**Ethylbenzene (mg/Kg):**	**0.589**	0.496
p & m-xylene (ug/L) :	24.35	p & m-xylene (mg/Kg):	4.831	0.992
o-xylene (ug/L) :	5.63	o-xylene (mg/Kg):	1.117	0.496
		Total xylenes (mg/Kg):	**5.948**	1.488
		Total BTEX (mg/Kg):	**8.208**	