

EL PASO FIELD SERVICES PRODUCTION PIT CLOSURE

RISK
BTEX
TPH

Elliot Gas Com S #1
Meter/Line ID – 75265

SITE DETAILS

Legals - Twn: 30N	Rng: 9W	Sec: 33	Unit: M
NMOCD Hazard Ranking: 10		Land Type: BLM	
Operator: Amoco		Pit Closure Date: 09/12/94	

RATIONALE FOR RISK-BASED 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 September 12, 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 pit. Approximately 40 cubic yards of 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 1070 ppm; laboratory analysis indicated a benzene concentration of 13 mg/kg, a total BTEX concentration of 256 mg/kg, and a TPH concentration of 1470 mg/kg. BTEX and TPH were above required remediation levels for the Hazard Ranking Score.

On May 9, 1995, a Phase II excavation was conducted to 17 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 40 cubic yards of 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 366 ppm; laboratory analysis indicated a benzene concentration of 0.86 mg/kg, a total BTEX concentration of 372 mg/kg, and a TPH concentration of 1470 mg/kg. BTEX and TPH remained above the required remediation levels for the Hazard Ranking Score.

On August 8, 1995, a Phase III borehole was conducted to 20 feet below ground surface where bedrock was encountered. Groundwater was not encountered in the borehole. The borehole was grouted to the surface in a manner to direct surface runoff away from the pit area. A soil gas survey conducted indicates BTEX compounds to be below action level directly down gradient of excavated pit.

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 six years.
- The pit was backfilled and the former pit area graded to direct surface runoff away from the former pit.

EL PASO FIELD SERVICES PRODUCTION PIT CLOSURE

- Groundwater was not encountered in the excavation or the borehole.
- Residual hydrocarbons in the soil will degrade naturally with minimal risk to the environment.
- Bedrock was encountered at 20 feet below ground surface; consequently, impact to groundwater is unlikely.
- There are no water supply wells or other sources of fresh water extraction within 1,000 feet of site.
- Excavated material has been removed from the pit, eliminating potential direct contact with livestock or the public.

ATTACHMENT

Field Pit Assessment Form

Field Pit Remediation/Closure Form Phase I

Field Pit Remediation/Closure Form Phase II

Soil Gas Survey

Phase III Geologic Log

Laboratory Analytical Results

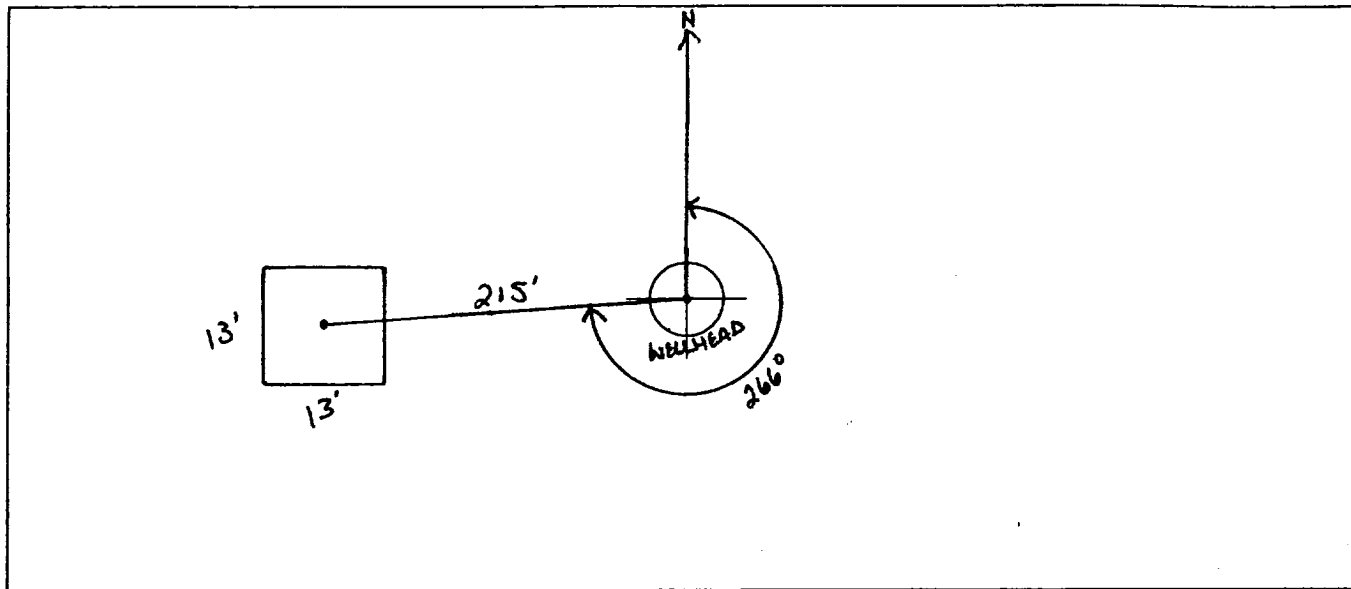
FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: <u>75265</u> Location: <u>ELLIOT GAS COM S #1</u> Operator #: <u>0203</u> Operator Name: <u>Amoco</u> P/L District: <u>BLOOMFIELD</u> Coordinates: Letter: <u>M</u> Section <u>33</u> Township: <u>30</u> Range: <u>9</u> Or Latitude _____ Longitude _____ Pit Type: Dehydrator ☒ Location Drip: _____ Line Drip: _____ Other: _____ Site Assessment Date: <u>6.8.94</u> Area: <u>10</u> Run: <u>43</u>
SITE ASSESSMENT	NMOCD Zone: (From NMOCD Maps) Inside ☒ (1) Outside ☐ (2) 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 _____ (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: <u>10</u> POINTS
REMARKS	Remarks : <u>THREE PITS ON LOCATION. WILL CLOSE ONLY ONE. PIT IS DRY.</u> <u>LOCATION IS ON THE NORTH SIDE OF C.R. 4599 ON THE 38-1 RD.</u> <u>REDUNE AND TOPO CONFIRMED LOCATION IS INSIDE V.2.</u> <u>DIC F. HARRIS</u>

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 266° Footage from Wellhead 215'
b) Length : 13' Width : 13' Depth : 2'



REMARKS

Remarks :

TOOK PICTURES AT 1:41 P.M.

END DUMP

Completed By:

Robert Thompson

Signature

6.8.94

Date

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 75265 Location: Elliot Gas Com S #1

Coordinates: Letter: M Section 33 Township: 30 Range: 9

Or Latitude _____ Longitude _____

Date Started : 9/12/94 Run: 10 43

FIELD OBSERVATIONS

Sample Number(s): KD 250

Sample Depth: 12' Feet

Final PID Reading 1070 ppm PID Reading Depth 12' Feet

Yes No

Groundwater Encountered ☐ ☒ Approximate Depth _____ Feet

CLOSURE

Remediation Method :

Excavation

☒ Approx. Cubic Yards 40

Onsite Bioremediation

☐

Backfill Pit Without Excavation ☐

Soil Disposition:

Envirotech

☒

☐

Tierra

Other Facility

☐

Name: _____

Pit Closure Date: 9/12/94

Pit Closed By: BEI

REMARKS

Remarks : Excavated pit to 12', Took PID Sample, Closed Pit.

Signature of Specialist: Kenny Dorman



FIELD SERVICES LABORATORY
ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KD 250	946095
MTR CODE SITE NAME:	75265	N/A
SAMPLE DATE TIME (Hrs):	9-12-94	1000
SAMPLED BY:	N/A	
DATE OF TPH EXT. ANAL.:	9-13-94	9-13-94
DATE OF BTEX EXT. ANAL.:	9-14-94	9-17-94
TYPE DESCRIPTION:	VC	Brown/Grey Sand/Clay

REMARKS:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	13	MG/KG	20			
TOLUENE	73	MG/KG	20			
ETHYL BENZENE	20.5	MG/KG	20			
TOTAL XYLENES	170	MG/KG	20			
TOTAL BTEX	256	MG/KG				
TPH (418.1) 1470	4467.1	MG/KG			2.07	28
HEADSPACE PID	1070	PPM				
PERCENT SOLIDS	90.7	%				

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

The Surrogate Recovery was at 153 % for this sample All QA/QC was acceptable.
N: tive:

ATI Results attached. Surrogate Recovery was outside ATI Ac.
limits due to matrix interference
DF = Dilution Factor Used

Approved By:

Date: 10/23/94



Analytical Technologies, Inc.

GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)
CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 409354
PROJECT # : 24324
PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
13	946087	NON-AQ	09/09/94	09/14/94	09/17/94	1
14	946088	NON-AQ	90/09/94	09/14/94	09/17/94	1
15	946095	NON-AQ	09/12/94	09/14/94	09/17/94	20
PARAMETER			UNITS	13	14	15
BENZENE			MG/KG	<0.025	<0.025	13
TOLUENE			MG/KG	1.6	<0.025	73
ETHYLBENZENE			MG/KG	1.8	<0.025	<0.5
TOTAL XYLENES			MG/KG	88 D(5)	0.059	170

SURROGATE:

BROMOFLUOROBENZENE (%) 107 108 153*

*OUTSIDE ATI QUALITY CONTROL LIMITS DUE TO MATRIX INTERFERENCE

D(5)=DILUTED 5X, ANALYZED 09/19/94



Analytical **Technologies**, Inc.

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

ATI I.D. 409354

September 22, 1994

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

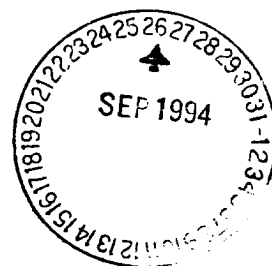
On 09/14/94, Analytical Technologies, Inc., (ADHS License No. AZ0015), received a request to analyze **non-aqueous** samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

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

Letitia Krakowski, Ph.D.
Project Manager

MR:jt

Enclosure





CHAIN OF CUSTODY RECORD

[illegible]

GENERAL

FIELD OBSERVATIONS

CLOSURE

STAPLE



Elliot Gas Com S#1

FIELD SERVICES LABORATORY
ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone PHASE 2

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KD 432	946798
MTR CODE SITE NAME:	75245	N/A
SAMPLE DATE TIME (Hrs):	5-9-95	1145
SAMPLED BY:	5-10-95	N/A
DATE OF TPH EXT. ANAL.:	5-10-95	
DATE OF BTEX EXT. ANAL.:	5/10/95	5/10/95
TYPE DESCRIPTION:	VG	Brown sand & clay

REMARKS:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	0.86	MG/KG	0.30166		4.42	20
TOLUENE	79.0	MG/KG				
ETHYL BENZENE	18.8	MG/KG				
TOTAL XYLENES	274	MG/KG		DI, J		
TOTAL BTEX	372	MG/KG				
TPH (418.1)	1470	MG/KG			2.04	28
HEADSPACE PID	346	PPM				
PERCENT SOLIDS	92.0	%				

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

The Surrogate Recovery was at 107 % for this sample All QA/QC was acceptable.

No. Live:

ATL Results attached for Modified 8015

DF = Dilution Factor Used

Approved By:

Date:

5/11/95

BTEX SOIL SAMPLE WORKSHEET

File	:	946798A	Date Printed	:	5/11/95
Soil Mass (g)	:	4.42	Multiplier (L/g)	:	0.00113
Extraction vol. (mL)	:	20	DF (Analytical)	:	266.667
Shot Volume (uL)	:	75	DF (Report)	:	0.30166

				Det. Limit
Benzene (ug/L)	:	2.84	Benzene (mg/Kg):	0.857 0.754
Toluene (ug/L)	:	261.98	Toluene (mg/Kg):	79.029 0.754
Ethylbenzene (ug/L)	:	62.34	Ethylbenzene (mg/Kg):	18.805 0.754
p & m-xylene (ug/L)	:	732.02	p & m-xylene (mg/Kg):	220.821 1.508
o-xylene (ug/L)	:	175.32	o-xylene (mg/Kg):	52.887 0.754
			Total xylenes (mg/Kg):	273.707 2.262
			Total BTEX (mg/Kg):	372.398



Analytical Technologies, Inc.

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8015 MODIFIED

CLIENT : EL PASO NATURAL

ATI I.D.: 505344

PROJECT # : 23324

PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	946798	NON-AQ	05/09/95	05/11/95	05/12/95	5
02	946799	NON-AQ	05/09/95	05/11/95	05/12/95	1
PARAMETER			UNITS	01	02	
FUEL HYDROCARBONS			MG/KG	5400	7	
HYDROCARBON RANGE				C6 - C14	C9 - C18	
HYDROCARBONS QUANTITATED USING				GASOLINE	DIESEL	

SURROGATE:

O-TERPHENYL (%)

99

102



Analytical**Technologies**, Inc.

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

ATI I.D. 505344

May 17, 1995

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

Project Name/Number: PIT CLOSURE 24324

Attention: JOHN LAMBDIN

On 05/11/95, 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.

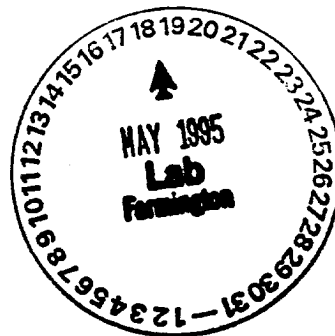
If you have any questions or comments, please do not hesitate to contact us at (505) 344-3777.

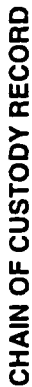
Letitia Krakowski, Ph.D.
Project Manager

H. Mitchell Rubenstein, Ph.D.
Laboratory Manager

MR:jt

Enclosure





CHAIN OF CUSTODY RECORD

White - Testing Laboratory **Canary - EPNG Lab** **Pink - Field Sampler**

RECORD OF SUBSURFACE EXPLORATION

Philip Environmental Services Corp.

4000 Monroe Road

Farmington, New Mexico 87401

(506) 326-2262 FAX (506) 326-2388

Phase III Drilling

Borehole #

BH-1

Well #

Page

of

Project Name

EPNG Pits

Project Number

14509

Phase

604

Project Location

Elliot Gas Com S#1, 75263

Elevation

Borehole Location T30, R9, S.33, M

GWL Depth

Logged By S.Kelly

Drilled By

Date/Time Started 8/8/95 0730

Date/Time Completed 8/8/95 0845

Well Logged By

S.Kelly

Personnel On-Site

M. Dandhue, J. O'Keefe

Contractors On-Site

Client Personnel On-Site

Drilling Method

4 1/4" ID HSA

Air Monitoring Method

CGI, PID

Depth (Feet)	Sample Number	Sample Interval	Sample Type & Recovery (inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)	Air Monitoring Units: NDU			Drilling Conditions & Blow Counts
							BZ	BH	S	
0				Backfill						
5				to 12'						
10										
15										
20	18-20	.3' / 2.0'		sandy GRAVEL, brown, 30-45% fine to med sand, med. to coarse, rounded gravel. dense. damp.			65	652		2K 8/16/95 0810 Hit cobble.
25				TOB - 20.0'						
30										
35										
40										

Comments:

Auger refusal at 20'. No sample taken due to high headspace reading at refusal. BH grouted to surface.

Geologist Signature

S. Kelly

TABLE 1

RECON® Soil-Gas and Groundwater Investigation

El Paso Natural Gas Company Sites
San Juan Basin
Farmington, New Mexico

PIT LOCATION NAME	METER NUMBER	SAMPLE IDENTIFICATION	PREVIOUS INVESTIGATION
RINCON No. 48	71025	RINCON48	Phase II HSA refusal at 23' bls
RINCON No. 10	70645	RINCON10	Phase II HSA refusal at 25' bls
RINCON No. 70	71580	RINCON70	Phase II HSA refusal at 32' bls
CHACON AMIGOS No. 2	93370	CA2	Phase II HSA refusal at 30' bls
JAQUEZ A No. 1A	89619	JAC1A	Phase II HSA refusal at 18' bls
FLORANCE No. 107 PC	87017	FLORANCE107	Phase II HSA refusal at 29.5' bls
WALKER COM No. 1	75879	WALKERCOM1	Phase II HSA refusal at 27.5' bls
HEATH F1	72505	HEATHF1	Phase II HSA refusal at 18' bls
DAY No. 3	90847	DAY3	Phase II HSA refusal at 30' bls
SULLIVAN No. 1	70760	SULLIVAN1	Phase II HSA refusal at 23' bls
MARCOTTE 1A	89903	MARCOTTE1A	Phase II HSA refusal at 18' bls
TRUJILLO No.1 PC	72089	TRUJILLO1PC	GW encountered in phase I excavation
FEDERAL 6 No. 32	94768	FEDERAL6No32	Phase II soil boring indicated GW at less than 20' bls
CANYON LARGO 304	93788	C-LARGO304	Phase II soil boring indicated GW at less than 20' bls
CANYON LARGO 298	93590	C-LARGO298	Phase II soil boring indicated GW at less than 20' bls
CANYON LARGO 302	93793	C-LARGO302	Phase II soil boring indicated GW at less than 20' bls
K-17 LINE DRIP	N/A	K17LINEDRIP	Phase II soil boring indicated GW at less than 20' bls
HOWELL No. 3 LINE DRIP	N/A	HOWELL#3LD	Phase II soil boring indicated GW at less than 20' bls
LATERAL 2C-1 LINE DRIP	N/A	LATERAL2C-1	Phase II HSA refusal at 42' bls
CUTLER 2	74289	CUTLER2	Phase II soil boring indicated GW at less than 20' bls
LATERAL 2C-22 No. 3 LINE DRIP	N/A	L2C-22No3LD	Phase II soil boring indicated GW at less than 20' bls
NICKELS No. 1 DK	73034	NICKELS#1DK	Phase II soil boring indicated GW at less than 20' bls
McGRATH No. 1	70862	MACGRATH#1	Phase II soil boring indicated GW at less than 20' bls
FLORA VISTA #1	75718	FLORAVISTA1	Phase II soil boring indicated GW at less than 20' bls
MARSHALL B-1J	89039	MB1J	Phase II soil boring indicated GW at less than 20' bls
ARGO No. 1E	93780	ARGO#1E	Phase II soil boring indicated GW at less than 20' bls
TRUNK D LINE DRIP	N/A	TDLD	Phase II soil boring indicated GW at less than 20' bls
K-31 LINE DRIP	N/A	K31LINEDRIP	Phase II soil boring indicated GW at less than 20' bls
MILES FEDERAL No. 1E	94495	MILES#1E-01	Phase II soil boring indicated GW at less than 20' bls
ELLIOT GAS COM No. M1	73147	EGC#M1	Phase II HSA refusal at 22' bls
ELLIOT GAS COM No. S1	75265	EGC#S1	Phase II HSA refusal at 20' bls
LINDRITH B24	94967	LINDRITHB24	Phase II soil boring indicated GW at less than 20' bls
LINDRITH 23	74692	LINDRITH23	Phase II soil boring indicated GW at less than 20' bls
CANEPLA GAS COM No. 1	70714	CGC#1	Phase II HSA refusal at 18.5' bls
OHIO C GVT #3	72890	OCG3	GW encountered during Phase II excavation
C3 LOOP LINE DRIP	N/A	C3LLD	No GW encountered in Phase I excavation
SAN JUAN UNIT 28-6 #79 PM	72265	SJU28679PM	Phase II soil boring indicated GW at less than 20' bls
HAMMOND 41A	89894	H41A	Phase II soil boring indicated GW at less than 20' bls
HSA = Hollow-stem auger drill rig			
bls = below land surface			
GW = groundwater			

RECON® Soil-Gas and Groundwater Investigation

El Paso Natural Gas Company Sites
San Juan Basin
Farmington, New Mexico

Location Name	U-S-T-R	Meter No.	Sample I.D.	Sample Matrix	No. of		Depth	Comments
					Probe Holes	Samples		
Rincon No. 48	N30-27-6	71025	RINCON48	Soil-gas	3	12	3-12	BTEX below action levels
Rincon No. 10	C36-27-7	70645	RINCON10	Soil-gas	3	12	3-12	BTEX below action levels
Rincon No. 70	A27-27-7	71580	RINCON70	Soil-gas	3	12	3-12	BTEX below action levels
Chacon Amigos No. 2	I2-22-3	93370	CA2	Soil-gas	4	16	3-12	Benzene above action levels
Jaquez A No. 1A	D5-29-9	89619	JAC1A	Soil-gas	3	12	3-12	BTEX below action levels
Florance No. 107 PC	E8-30-9	87017	FLORANCE107	Soil-gas	6	24	3-12	BTEX below action levels
Walker Corn No. 1	P25-30-9	75879	WALKERCOM1	Soil-gas	3	12	3-12	BTEX below action levels
Heath F1	E8-29-9	72505	HEATHF1	Soil-gas	3	12	3-12	BTEX below action levels
Day No. 3	A17-29-8	90847	DAY3	Soil-gas	3	12	3-12	BTEX below action levels
Sullivan No. 1	M22-32-10	70760	SULLIVAN1	Soil-gas	3	12	3-12	BTEX below action levels
Marcotte 1A	I5-31-10	89903	MARCOTTE1A	Soil-gas	3	12	3-12	BTEX below action levels
Trujillo No. 1 PC	M21-29-10	72089	TRUJILLO1PC	Groundwater	15	18	4-6	Benzene above action level and offsite
Federal 6 No. 32	G6-26-7	94768	FEDERAL6No32	Soil-gas and Groundwater	6	32	3-30	BTEX above action levels
Canyon Largo 304	C11-24-6	93788	C-LARGO304	Soil-gas and Groundwater	6	15	3-21	BTEX above action levels
Canyon Largo 298	A3-24-6	93590	C-LARGO298	Soil-gas	3	12	3-12	BTEX below action levels
Canyon Largo 302	J3-24-6	93793	C-LARGO302	Soil-gas and Groundwater	8	17	3-24	BTEX below action levels
K-17 Line Drip	C26-27-8	N/A	K17LINEDRIP	Groundwater	3	3	18-27	BTEX below action levels
Howell No. 3 Line Drip	C3-27-8	N/A	HOWELL#3LD	Groundwater	3	3	21-27	BTEX below action levels
Lateral 2C-1 Line Drip	P36-27-11	N/A	LATERAL2C-1	Soil-gas	3	12	3-12	BTEX below action levels
Cutler 2	A14-24-6	93793	CUTLER2	Groundwater	4	4	24-27	BTEX below action levels
Lateral 2C-22 No. 3 Line Drip	G13-24-6	N/A	L2C-22No3LD	Groundwater	3	3	18-24	BTEX below action levels
Nickels No. 1 DK	K11-31-13	73034	NICKELS#1DK	Groundwater	5	5	12-15	Benzene above action levels
McGrath No. 1	F7-31-11	70862	MACGRATH#1	Soil-gas	3	3	9	BTEX below action levels
Flora Vista #1	F22-30-12	75718	FLORAVISTA1	Groundwater	3	3	24-30	BTEX below action levels
Marshall B-1J	O14-27-9	89039	MB1J	Soil-gas	3	3	8-20	BTEX below action levels
Argo No. 1E	N18-27-10	93780	ARGO#1E	Groundwater	3	3	24-30	BTEX below action levels
Trunk D Line Drip	E20-28-8	N/A	TDLD	Groundwater	3	3	15-24	BTEX below action levels
K-31 Line Drip	N16-25-6	N/A	K31LINEDRIP	Groundwater	14	14	21-24	Benzene above action levels and offsite

RECON® Soil-Gas and Groundwater Investigation

El Paso Natural Gas Company Sites
San Juan Basin
Farmington, New Mexico

Location Name	U-S-T-R	Meter No.	Sample I.D.	Sample Matrix	No. of		Depth	Comments
					Probe Holes	Samples		
Miles Federal No. 1E	N5-26-7	94495	MILES#1E	Groundwater	3	3	24-30	BTEX below action levels
Elliot Gas Com No. M1	I33-30-9	73147	EGC#M1	Soil-gas	3	12	3-12	BTEX below action levels
Elliot Gas Com No. S1	M33-30-9	75265	EGC#S1	Soil-gas	3	12	3-12	BTEX below action levels
Lindrith B24	N9-24-3	94967	LINDRITHB24	Groundwater	3	3	21-27	Benzene above action levels and offsite
Lindrith B23	D9-24-3	74691	LINDRITHB23	Groundwater	3	3	21-27	BTEX below action levels
Canepa Gas Com No. 1	M18-31-10	70714	CGC#1	Soil-gas	3	12	3-12	BTEX below action levels
Ohio C Gvt #3	P26-28-11	72890	OCG3	Soil-gas and Groundwater	3	3	9-17	Benzene above action levels and offsite
C3 Loop Line Drip	D28-29-9	N/A	C3LLD	Soil-gas	3	12	3-12	BTEX below action levels
San Juan Unit 28-6 #79 PM	M11-27-6	722654	SJU28679PM	Groundwater	7	7	30-36	BTEX above action levels
Hammond 41A	O25-27-8	89894	H41A	Groundwater	9	9	15-23	BTEX above action levels
U-S-T-R = Unit-Section-Township-Range								
BTEX = benzene, toluene, ethyl benzene, and xylenes								

Sample Analysis Worksheet

Sample I.D.	Probe Hole Number	Depth (Feet)	Analysis Time	Analysis Date	Injection Vol. (µL)	Multiplier	VAC in. Hg	Comments
MILES#1E-01	PH-01	24-30	1027	12/1/95	500	0.2	N/A	Groundwater
MILES#1E-02	PH-02	18-30	1107	12/1/95	500	0.2	N/A	Groundwater
MILES#1E-03	PH-03	24-30	1159	12/1/95	500	0.2	N/A	Groundwater
MILES#1E-03-D	PH-03	24-30	1241	12/1/95	500	0.2	N/A	QC - Duplicate
MILES#1E-03-MS	PH-03	24-30	1330	12/1/95	500	0.2	N/A	QC - Matrix Spike
Blank-83	N/A	N/A	1659	12/1/95	500	0.2	N/A	QC - System Blank
QCRT-30	N/A	N/A	1716	12/1/95	100	1	N/A	QC - Retention Times
Blank-84	N/A	N/A	0641	12/2/95	500	0.2	N/A	QC - System Blank
STD-1202	N/A	N/A	0729	12/2/95	100	1	N/A	Calibration Standard
Blank-85	N/A	N/A	0802	12/2/95	500	0.2	N/A	QC - System Blank
Blank-86	N/A	N/A	0855	12/2/95	500	0.2	N/A	QC - Probe Rod Blank
ARGO#1E-01	PH-01	24-30	0929	12/2/95	500	0.2	N/A	Groundwater
ARGO#1E-02	PH-02	24-30	0957	12/2/95	500	0.2	N/A	Groundwater
ARGO#1E-03	PH-03	24-30	1035	12/2/95	500	0.2	N/A	Groundwater
ARGO#1E-03-D	PH-03	24-30	1101	12/2/95	500	0.2	N/A	QC - Duplicate
ARGO#1E-03-MS	PH-03	24-30	1117	12/2/95	500	0.2	N/A	QC - Matrix Spike
Blank-87	N/A	N/A	1513	12/2/95	500	0.2	N/A	QC - System Blank
QCRT-30	N/A	N/A	1549	12/2/95	100	1	N/A	QC - Retention Times
Blank-88	N/A	N/A	0635	12/4/95	500	0.2	N/A	QC - System Blank
STD-1204	N/A	N/A	0728	12/4/95	100	1	N/A	Calibration Standard
Blank-89	N/A	N/A	0757	12/4/95	500	0.2	N/A	QC - System Blank
Blank-90	N/A	N/A	0814	12/4/95	500	0.2	N/A	QC - Probe Rod Blank
EGC#S1-01	PH-01	3	0858	12/4/95	500	0.2	8	Soil-gas
EGC#S1-02	PH-01	6	0913	12/4/95	500	0.2	9	Soil-gas
EGC#S1-03	PH-01	9	0928	12/4/95	500	0.2	8	Soil-gas
EGC#S1-04	PH-01	12	0943	12/4/95	500	0.2	8	Soil-gas
EGC#S1-05	PH-02	3	1011	12/4/95	500	0.2	10	Soil-gas
EGC#S1-06	PH-02	6	1026	12/4/95	500	0.2	8	Soil-gas
EGC#S1-07	PH-02	9	1041	12/4/95	500	0.2	8	Soil-gas

84A
1-31-96

N/A - not applicable
 QC - quality control
 D - duplicate analysis
 MS - matrix spike

FLIP

RECON SAMPLING ANALYSIS DATA SUMMARY TABLE Project: 13947

Sample I.D.	Probe Hole Number	Depth (feet)	Benzene (ug/L)	Toluene (ug/L)	Ethyl benzene (ug/L)	m+p-Xylene (ug/L)	o-Xylene (ug/L)	Comments
EGC#S1-08	PH-02	12	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	Soil-gas
EGC#S1-09	PH-03	3	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	Soil-gas
EGC#S1-10	PH-03	6	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	Soil-gas
EGC#S1-11	PH-03	9	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	Soil-gas
EGC#S1-12	PH-03	12	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	Soil-gas
EGC#M1-01	PH-01	3	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	Soil-gas
EGC#M1-02	PH-01	6	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	Soil-gas
EGC#M1-03	PH-01	9	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	Soil-gas
EGC#M1-04	PH-01	12	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	Soil-gas
EGC#M1-05	PH-02	3	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	Soil-gas
EGC#M1-06	PH-02	6	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	Soil-gas
EGC#M1-07	PH-02	9	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	Soil-gas
EGC#M1-08	PH-02	12	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	Soil-gas
EGC#M1-09	PH-03	3	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	Soil-gas
EGC#M1-10	PH-03	6	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	Soil-gas
EGC#M1-11	PH-03	9	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	Soil-gas
EGC#M1-12	PH-03	12	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	Soil-gas
EGC#M1-12-D	PH-03	12	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	Soil-gas
Blank-91	N/A	N/A	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	QC - Duplicate
QCRT-30	N/A	N/A	11	611	534	532	512	QC - System Blank
Blank-92	N/A	N/A	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	QC - Retention Times
STD-1205	N/A	N/A	12	705	705	706	707	QC - System Blank
Blank-93	N/A	N/A	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	Calibration Standard
Blank-94	N/A	N/A	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	QC - System Blank
LINDRITH23-01	PH-01	21-27	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	QC - Probe Rod Blank
LINDRITH23-02	PH-02	21-27	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	Groundwater
LINDRITH23-03	PH-03	21-27	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	Groundwater
LINDRITHB24-01	PH-01	21-27	<1	3	ND(1)	2	ND(1)	Groundwater
			ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	Groundwater

D = duplicate analysis.

QC = quality control.

ug/L = micrograms of compound detected per liter of soil or groundwater vapor analyzed.

ND = not detected at the lower quantifiable limit indicated in parenthesis.

N/A = not applicable.

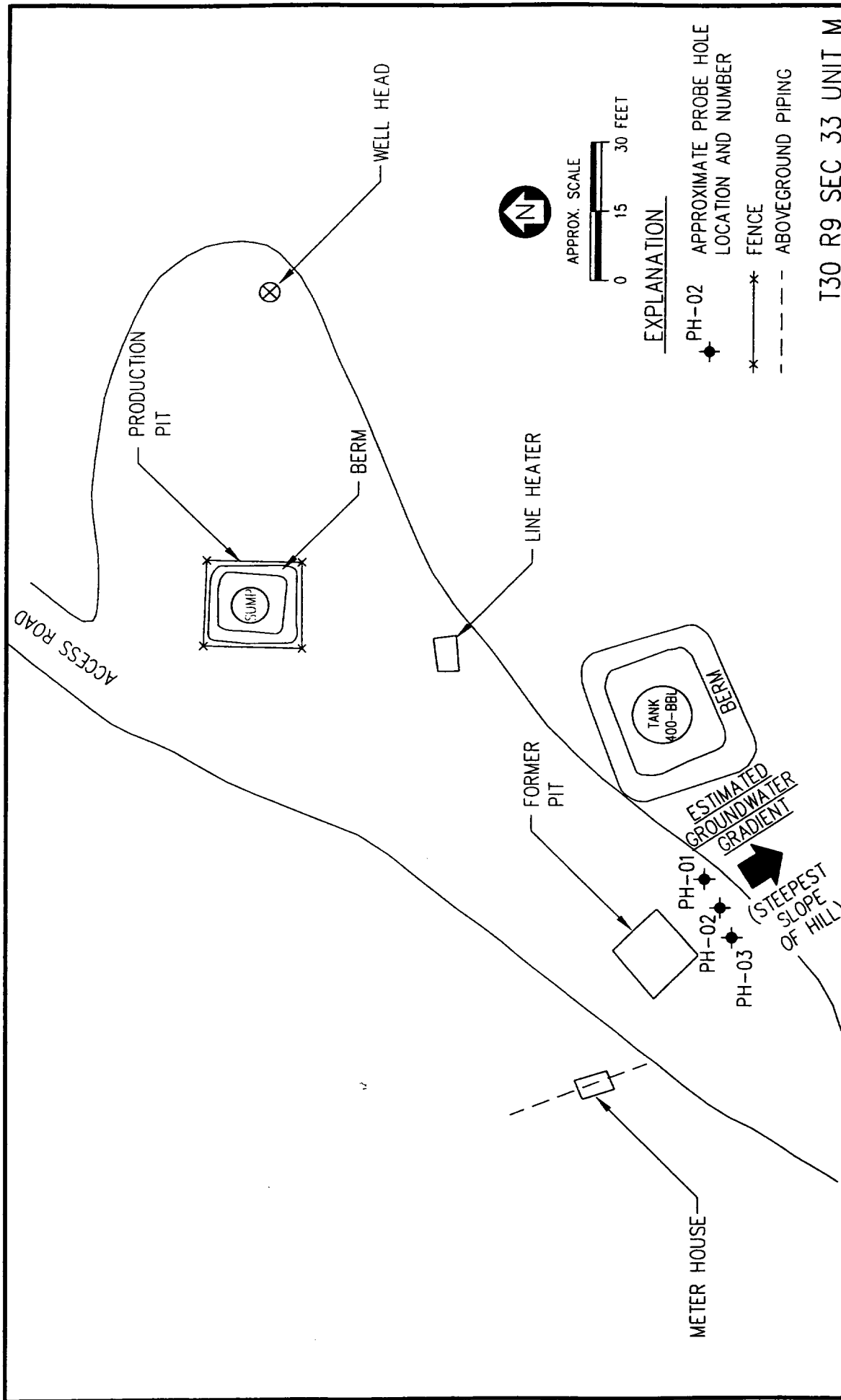
MS = matrix spike.

QA Review:

Paul E. Anderson

Review Date:

1-31-96 AK 2/13/96



PROJECT NO: 13947		EPNG-RECON PITS		REV: 1	
DATE	12/6/95	SCALE	AS NOTED	FIGURE	28
DWN:	M.R.W.	DES:		T30 R9 SEC 33 UNIT M	
CHKD:	K.B.G.	APPD:			