

3R - 227

REPORTS

DATE:

July, 1997

SAN JUAN BASIN PIT CLOSURES
San Juan Basin, New Mexico

Pit Closure Report

July 1997

RECEIVED

NOV 11 1997

Environmental Bureau
Oil Conservation Division

Prepared For

El Paso Field Services
Farmington, New Mexico

Project 17520

PHILIP
ENVIRONMENTAL
SOLUTIONS

Closure Checklist

Meter Code

74943

Summary
Site Map
Site Assessment Sheet

Phase I Excavation

Y

closure form
soil analytical results
soil chain-of-custody
groundwater analytical results
groundwater chain-of-custody

Phase II Soil Boring

Y

boring log
soil analytical results
soil chain-of-custody
well installation form
development form
groundwater analytical
groundwater chain-of-custody

Phase III Excavation

Y

closure form
soil analytical results
soil chain-of-custody
groundwater analytical
groundwater chain of-custody

Recon/Geoprobe

Y

groundwater analytical
soil-gas analytical

If item boxes are not checked they are not applicable

**New Mexico Com G1
Meter Code 74943**

Pit was excavated to 12 feet beneath ground surface. The headspace soil reading from the excavation bottom was 200 parts per million. Soil analytical were as follows; benzene - 3.62 mg/kg, total BTEX - 250 mg/kg, TPH - 3,720 mg/kg.

One soil boring was completed and a monitoring well was installed. A soil sample was collected from 15-17 feet beneath ground surface. Soil boring analytical are as follows: benzene <0.03 mg/kg, total BTEX - 10 mg/kg, TPH - 267 mg/kg. Groundwater was encountered at 18.7 feet beneath ground surface and a monitoring well was installed. Initial groundwater analytical were as follows: benzene - 5.52 ppb, toluene - 33.3 ppb, ethyl benzene - <2.5 ppb, total xylenes - 30.3 ppb.

The pit was re-excavated to 21 feet beneath ground surface and the monitoring well was removed. The headspace soil reading from the excavation bottom was 12.5 parts per million. Soil analytical were as follows; benzene - <0.5 mg/kg, total BTEX - <3 mg/kg, TPH - <10 mg/kg.

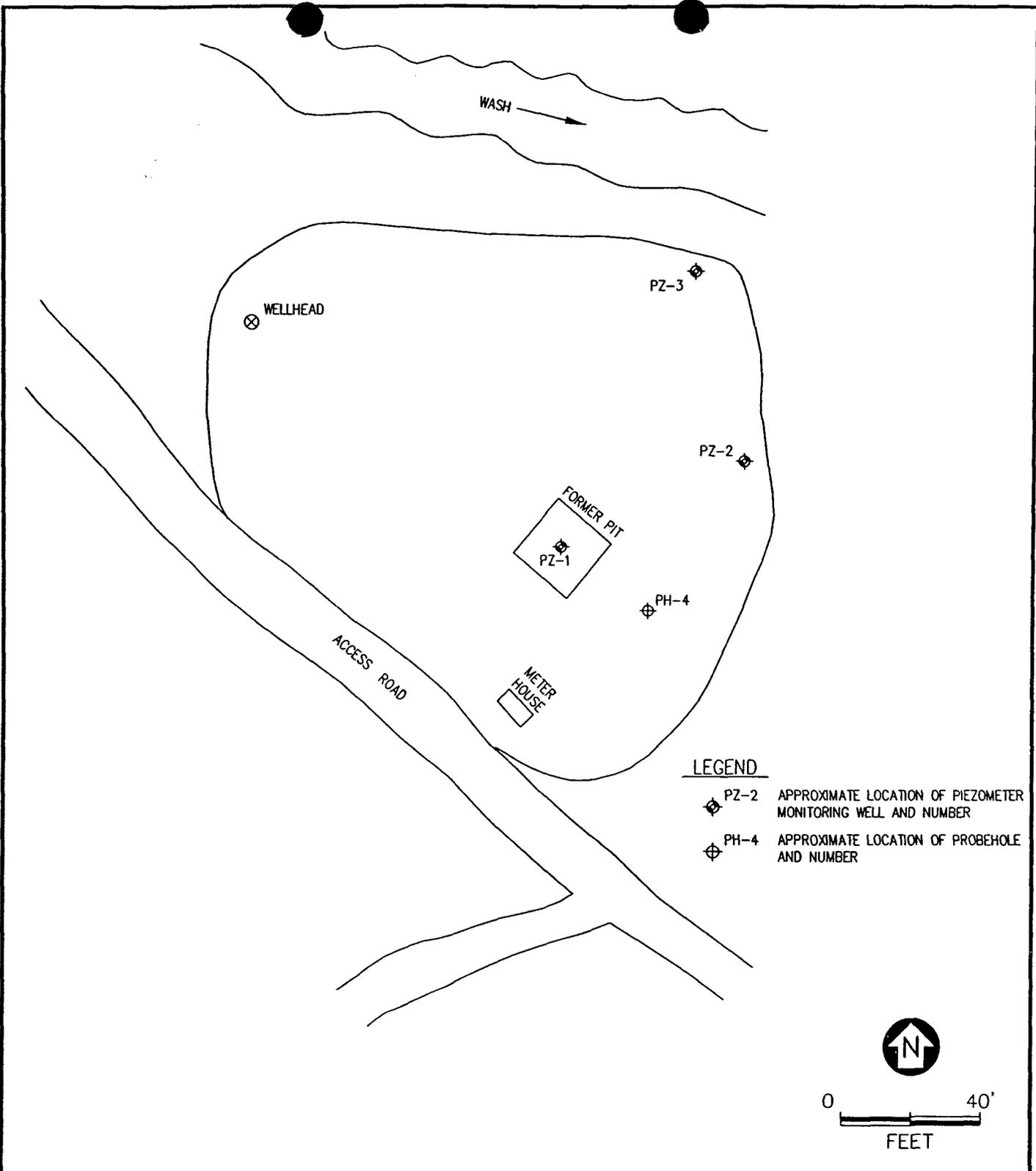
A Geoprobe survey was conducted and groundwater samples were collected. Groundwater analytical were as follows:

PZ1: benzene - <1 ppb, toluene - <1 ppb, ethyl benzene - <1 ppb, total xylenes - <3 ppb.
PZ2: benzene - <1 ppb, toluene - 1.2 ppb, ethyl benzene - <1 ppb, total xylenes - <3 ppb.
PZ3: benzene - <1 ppb, toluene - <1 ppb, ethyl benzene - <1 ppb, total xylenes - <3 ppb.
PH4: benzene - <1 ppb, toluene - 3.55 ppb, ethyl benzene - <1 ppb, total xylenes - 3.77 ppb.

This site is ready for closure based on the following:

- Initial groundwater sample was below standards
- Re-excavation soil samples were below standards.
- Geoprobe groundwater samples from the center of the former pit and downgradient of the former pit were below standards.





LEGEND

-  PZ-2 APPROXIMATE LOCATION OF PIEZOMETER MONITORING WELL AND NUMBER
-  PH-4 APPROXIMATE LOCATION OF PROBEHOLE AND NUMBER



NOTE: THIS FIGURE WAS PREPARED USING A SITE SKETCH MADE BY C.M. CHANCE, PHILIP ENVIRONMENTAL.



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NO.	REVISION	BY	APPR.	DATE
2	GENERAL REVISIONS	M.R.W.		4/30/97
1	GENERAL REVISIONS	M.R.W.		4/29/97

TITLE:
 SITE PLAN
 NM COM G1 74943
 T30-R10-S36-P

SCALE	AS NOTED	DATE
DWN:	M.R.W.	4/28/97
DES:		
CHKD:		
APPD:		

PROJECT NO:	17520
EPFS PITS BLOOMFIELD, NM	
FIGURE 1	REV: 2

COL. J:\17520\env\CL1-1

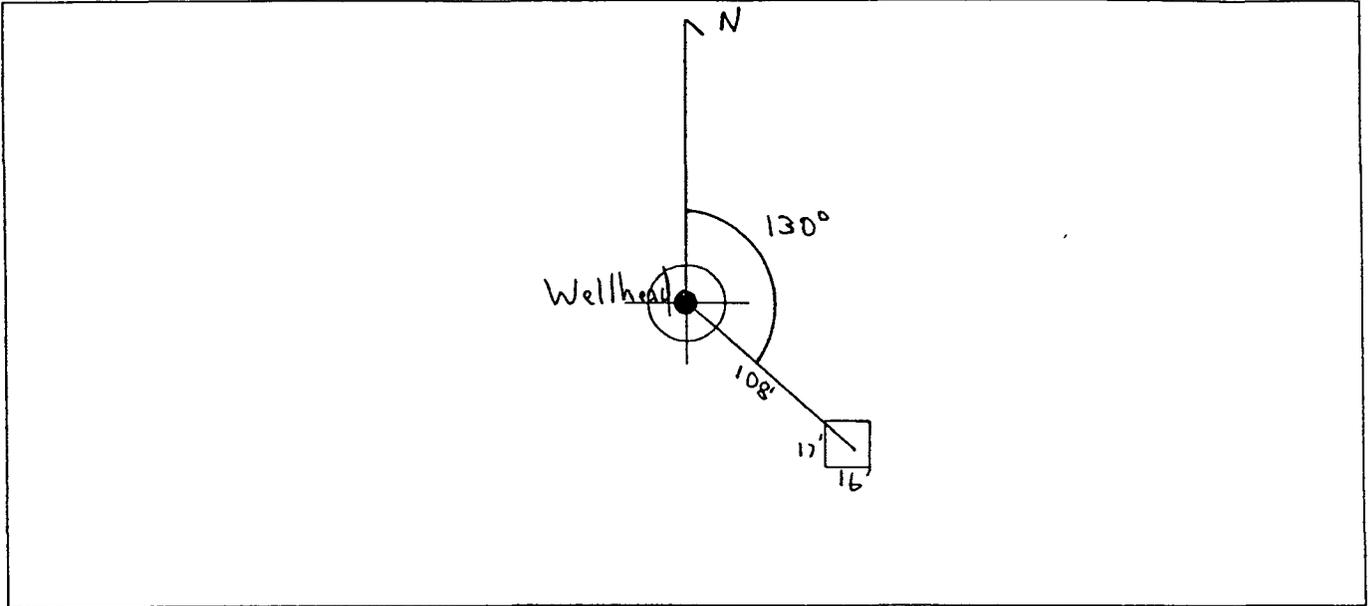
FIELD PIT SITE ASSESSMENT FORM

GENERAL	<p>Meter: <u>74943</u> Location: <u>NM CDM G1</u> Operator #: <u>0263</u> Operator Name: <u>Texaco</u> P/L District: <u>Bloomfield</u> Coordinates: Letter: <u>P</u> Section <u>36</u> Township: <u>30</u> Range: <u>10</u> Or Latitude _____ Longitude _____ Pit Type: Dehydrator _____ Location Drip: <input checked="" type="checkbox"/> Line Drip: _____ Other: _____ Site Assessment Date: <u>1/16/95</u> Area: <u>10</u> Run: <u>83</u></p>												
SITE ASSESSMENT	<p>NMOCD Zone: (From NMOCD Maps) Land Type:</p> <table style="width:100%; border:none;"> <tr> <td style="width:30%;"></td> <td style="width:30%;"><input checked="" type="checkbox"/> (1) Inside</td> <td style="width:30%;"><input type="checkbox"/> (1) BLM</td> </tr> <tr> <td></td> <td><input type="checkbox"/> (2) Outside</td> <td><input checked="" type="checkbox"/> (2) State</td> </tr> <tr> <td></td> <td></td> <td><input type="checkbox"/> (3) Fee</td> </tr> <tr> <td></td> <td></td> <td>Indian _____</td> </tr> </table> <p>Depth to Groundwater</p> <p>Less Than 50 Feet (20 points) <input checked="" type="checkbox"/> (1) 50 Ft to 99 Ft (10 points) <input checked="" 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 checked="" type="checkbox"/> (1) YES (20 points) <input type="checkbox"/> (2) NO (0 points)</p> <p>Horizontal Distance to Surface Water Body</p> <p>Less Than 200 Ft (20 points) <input checked="" type="checkbox"/> (1) 200 Ft to 1000 Ft (10 points) <input type="checkbox"/> (2) Greater Than 1000 Ft (0 points) <input type="checkbox"/> (3)</p> <p>Name of Surface Water Body <u>Vaca Canyon (off of San Juan R.)</u> (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>60</u> POINTS</p>		<input checked="" type="checkbox"/> (1) Inside	<input type="checkbox"/> (1) BLM		<input type="checkbox"/> (2) Outside	<input checked="" type="checkbox"/> (2) State			<input type="checkbox"/> (3) Fee			Indian _____
	<input checked="" type="checkbox"/> (1) Inside	<input type="checkbox"/> (1) BLM											
	<input type="checkbox"/> (2) Outside	<input checked="" type="checkbox"/> (2) State											
		<input type="checkbox"/> (3) Fee											
		Indian _____											
REMARKS	<p>Remarks : <u>Redline Book: Inside</u> <u>Vulnerable Zone Top: Inside</u> <u>1 pit. Will close. Liquid in pit</u></p>												

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 130° Footage from Wellhead 108'
b) Length : 17' Width : 16' Depth : 4'

ORIGINAL PIT LOCATION



REMARKS :

Pictures @ 0846 hr 5-8 call 1

REMARKS

Completed By:

Cory Chase
Signature

1/16/95
Date

Phase I Excavation

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: <u>74943</u> Location: <u>NM COM G1</u> Coordinates: Letter: <u>P</u> Section <u>36</u> Township: <u>30</u> Range: <u>10</u> Or Latitude _____ Longitude _____ Date Started : <u>1-31-95</u> Run: <u>10</u> <u>83</u>
FIELD OBSERVATIONS	Sample Number(s): <u>KP401</u> Sample Depth: <u>12'</u> Feet Final PID Reading <u>200</u> PID Reading Depth <u>12'</u> Feet Yes No Groundwater Encountered <input type="checkbox"/> <input checked="" type="checkbox"/> Approximate Depth _____ Feet
CLOSURE	Remediation Method : Excavation <input checked="" type="checkbox"/> Approx. Cubic Yards <u>80</u> Onsite Bioremediation <input type="checkbox"/> Backfill Pit Without Excavation <input type="checkbox"/> Soil Disposition: Envirotech <input type="checkbox"/> <input checked="" type="checkbox"/> Tierra Other Facility <input type="checkbox"/> Name: _____ Pit Closure Date: <u>1-31-95</u> Pit Closed By: <u>B.E.I</u>
REMARKS	Remarks : <u>Some line markers. started Remediating to 12'</u> <u>Soil Turned Dark gray with a H.C order. At 12' Bottom of</u> <u>Pit Brown looking with H.C. order. All four sides of Pit Black looking</u> <u>with H.C. order.</u>
	Signature of Specialist: <u>Kelly Padilla</u>

FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KP401	946620
MTR CODE SITE NAME:	74943	NM COM G1
SAMPLE DATE TIME (Hrs):	1/31/95	1115
PROJECT:	Phase I Drilling EXCAVATION	
DATE OF TPH EXT. ANAL.:	2/2/95	2/2/95
DATE OF BTEX EXT. ANAL.:	2/1/95	2/2/95
TYPE DESCRIPTION:	VC	Brown sand and clay

Field Remarks:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	3.62	MG/KG				
TOLUENE	82.7	MG/KG				
ETHYL BENZENE	12.4	MG/KG				
TOTAL XYLENES	151	MG/KG				
TOTAL BTEX	250	MG/KG				
TPH (418.1)	3,720	MG/KG			1.93	28
HEADSPACE PID	200	PPM				
PERCENT SOLIDS	88.0	%				

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

The Surrogate Recovery was at 84.5 for this sample All QA/QC was acceptable.

Narrative:

DF = Dilution Factor Used

Approved By:

John L. Lally

INGVZPIT.XLS

Date:

2-22-95

Phase II Soil Boring

MONITORING WELL INSTALLATION RECORD

Philip Environmental Services Corp.
 4000 Monroe Road
 Tinton, New Mexico 87401
 326-2262 FAX (506) 326-2388

Borehole # BH-1
 Well # MW-1
 Page 1 of 1

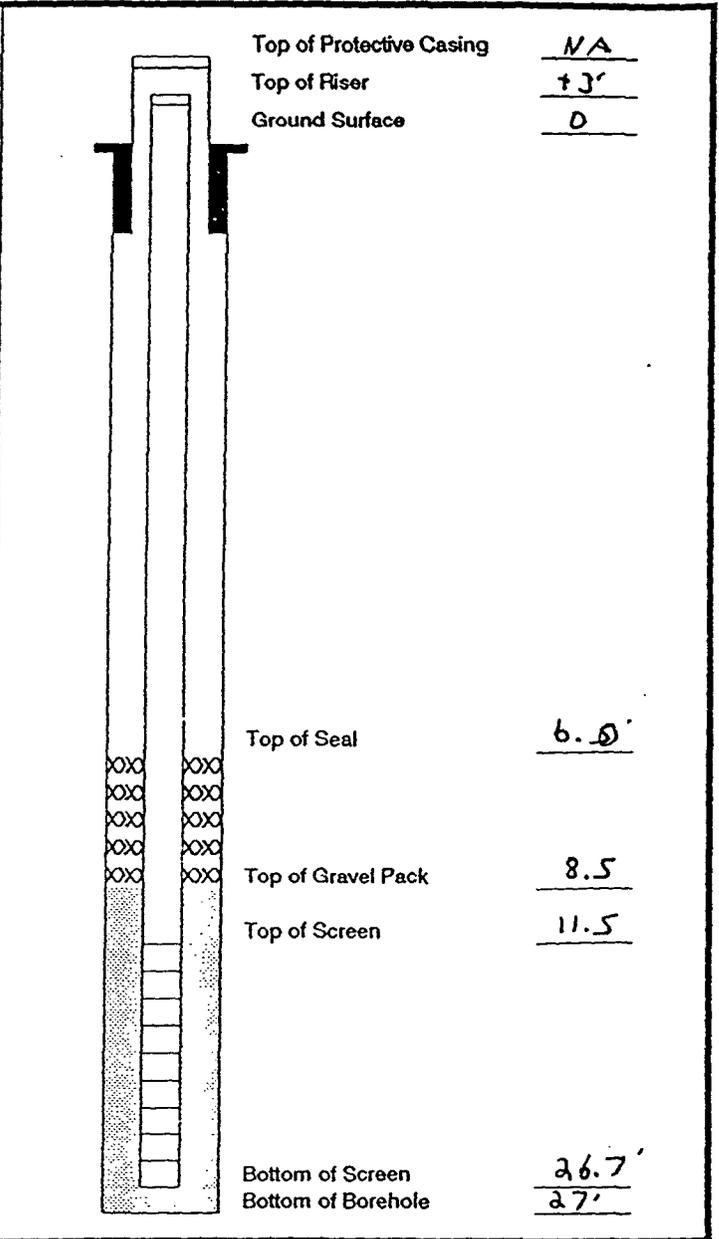
Project Name EPN6 Pits
 Project Number 14509 Phase 6000 77
 Project Location New Mexico Com 61 74940

Elevation _____
 Well Location _____
 GWL Depth 16.5'
 Installed By K. Padilla

On-Site Geologist CM Chance
 Personnel On-Site M. Ponce, K. Padilla, F. River
 Contractors On-Site _____
 Client Personnel On-Site _____

Date/Time Started 5/27/95-1226
 Date/Time Completed 5/27/95 1410

Depths in Reference to Ground Surface		
Item	Material	Depth
Top of Protective Casing		NA
Bottom of Protective Casing		NA
Top of Permanent Borehole Casing		NA
Bottom of Permanent Borehole Casing		NA
Top of Concrete		NA
Bottom of Concrete		NA
Top of Grout	3-94# bag bent	0'
Bottom of Grout	25-50# bag bent	6.0'
Top of Well Riser	15' sch 40 PVC	13'
Bottom of Well Riser	well riser	11.5'
Top of Well Screen	15' D.O.I. slat	11.5'
Bottom of Well Screen	sch 40 PVC	26.7'
Top of Peltonite Seal	2-50# Bags No. 8	6.0'
Bottom of Peltonite Seal	Enviroplex	8.5'
Top of Gravel Pack	11-50# Bags	8.5'
Bottom of Gravel Pack	10-20 silica sand	27'
Top of Natural Cave-In		NA
Bottom of Natural Cave-In		NA
Top of Groundwater		16.5'
Total Depth of Borehole		27'



Comments: Bent. hydrated w/ 5gal potable water - 1# Well protector lead pack placed on well

Geologist Signature

Cory Chance

-10-83 Bloomfield

RECORD OF SUBSURFACE EXPLORATION

Borehole # BH-1
Well # _____
Page 1 of 1

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

Project Name EPNG PITS
Project Number 14509 Phase 6DDD 77
Project Location New Mexico Com G1 74943

Elevation _____
Borehole Location _____
GWL Depth _____
Logged By CM Chance
Drilled By M. Donohue/K. Padilla
Date/Time Started 5/22/95 - 10:40 1114
Date/Time Completed 5/22/95 12:36

Well Logged By CM Chance
Personnel On-Site M. Donohue, K. Padilla, F. Rivera
Contractors On-Site _____
Client Personnel On-Site _____

Drilling Method 4 1/4 I.D. HSA
Air Monitoring Method PIO, CBT

Depth (Feet)	Sample Number	Sample Interval	Sample Type & Recovery (inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)	Air Monitoring			Drilling Conditions & Blow Counts
							Units: <u>NDU 5</u>	BZ	BH	
0				Backfill to 12'						
15	1	15-17	4"	Blk silty SAND, v-f sand, loose, silty, odor			Δ	>	<u>LS/800</u>	<u>1129</u>
20	2	20-22	16"	Blk silty SAND, v-f sand, loose, saturated Blk sandy CLAY, soft, r-f sand, med plastic			Δ	6		<u>GW 18.7'</u> <u>1139</u> <u>SS saturated</u>
30				TDB 27'						

Comments: GW @ 17' after setting 1/2 hr. 15-17' sample submitted to lab (RTEXT, TCH) CMC 20
2nd sample saturated

Geologist Signature CM Chance

FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	CMC20	946831
MTR CODE SITE NAME:	74943	NM COM G1
SAMPLE DATE TIME (Hrs):	5/23/95	1129
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. ANAL.:	5/25/95	5/251995
DATE OF BTEX EXT. ANAL.:	5/30/95	6/1/95
TYPE DESCRIPTION:	VG	Brown sand and clay

Field Remarks:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	<0.03	MG/KG				
TOLUENE	3.40	MG/KG				
ETHYL BENZENE	0.37	MG/KG				
TOTAL XYLENES	6.20	MG/KG				
TOTAL BTEX	10.0	MG/KG				
TPH (418.1)	267 / ^{EPA} / _{SCVS} 150	MG/KG			1.96	28
HEADSPACE PID	803	PPM				
PERCENT SOLIDS	86.0	%				

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

The Surrogate Recovery was at 110 for this sample All QA/QC was acceptable.

Narrative:

ATI analyzed this sample.

DF = Dilution Factor Used

Approved By:

John Swick

INGVZPIT.XLS

Date:

6/8/95



EL PASO FIELD SERVICES

FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	SEK2	946842
MTR CODE SITE NAME:	74943	NM COM G #1
SAMPLE DATE TIME (Hrs):	5/30/95	1220
PROJECT:	Phase II Drilling - Initial	
DATE OF BTEX EXT. ANAL.:	6/1/95	6/1/95
TYPE DESCRIPTION:	Monitor Well	Water

Field Remarks: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q		
BENZENE	5.52	PPB				
TOLUENE	33.3	PPB				
ETHYL BENZENE	<2.5	PPB				
TOTAL XYLENES	30.3	PPB				
TOTAL BTEX	69.1	PPB				

--BTEX is by EPA Method 8020 --

The Surrogate Recovery was at 100 for this sample All QA/QC was acceptable.
DF = Dilution Factor Used

Narrative:

TDS = 4,200 ppm

Approved By: _____

John Seibel

Date: _____

6/7/95



Well Development and Purging Data

Development
 Purging

Well Number Meter # 74-943

Serial No. WDPP- Page of

Project Name ERUG Drilling Project Manager Project No. 14509

Client Company ERUG Phase, Task No. 600377

Site Name A.M. Gas Com G #1 Site Address

Development Criteria

- 3 to 5 Casing Volumes of Water Removal
- Stabilization of Indicator Parameters
- Other

Water Volume Calculation

Initial Depth of Well (feet) 30.23

Initial Depth to Water (feet) 16.21

Height of Water Column in Well (feet) 14.02

Diameter (inches): Well 2" Gravel Pack

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing			<u>238</u>
Gravel Pack		<u>X3</u>	
Drilling Fluids			
Total			<u>715</u>

Methods of Development

- Pump Centrifugal Bottom Valve
- Submersible Double Check Valve
- Peristaltic Stainless-steel Kemmerer
- Other

Instruments

- pH Meter
- DO Monitor
- Conductivity Meter
- Temperature Meter
- Other

Water Disposal Into drums

Water Removal Data

Date	Time	Development Method	Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gallons)		Temperature (°C)	pH	Conductivity (umhos/cm)	Dissolved Oxygen (mg/L)	Comments
						Increment	Cumulative					
<u>5/30/95</u>	<u>1050</u>	<u>X</u>				<u>3</u>	<u>3</u>	<u>59.0</u>	<u>6.83</u>	<u>3340</u>		<u>brown, silty</u>
	<u>1105</u>	<u>X</u>		<u>AK 513045</u>		<u>5</u>	<u>8</u>	<u>62.1</u>	<u>6.98</u>	<u>3230</u>		<u>"</u>
	<u>1120</u>	<u>X</u>				<u>4</u>	<u>17</u>	<u>59.3</u>	<u>7.14</u>	<u>3400</u>		<u>"</u>
	<u>1130</u>	<u>X</u>				<u>3</u>	<u>20</u>	<u>59.3</u>	<u>7.19</u>	<u>3430</u>		<u>brown, cloudy</u>
	<u>1140</u>	<u>X</u>				<u>2</u>	<u>22</u>	<u>61.9</u>	<u>7.22</u>	<u>3840</u>		<u>"</u>
	<u>1150</u>	<u>X</u>				<u>2</u>	<u>24</u>	<u>60.6</u>	<u>7.26</u>	<u>3656</u>		<u>"</u>
	<u>1155</u>	<u>X</u>				<u>2</u>	<u>26</u>	<u>63.4</u>	<u>7.26</u>	<u>3860</u>		<u>"</u>
	<u>1200</u>	<u>X</u>				<u>2</u>	<u>26</u>	<u>63.9</u>	<u>7.26</u>	<u>3860</u>		<u>"</u>

Circle the date and time that the development criteria are met.

Comments Sampled at 1220.

Developer's Signature(s) Anna Kelly Date 5/30/95 Reviewer Date

EL PASO NATURAL GAS - FIELD SERVICES LABORATORY

QUALITY CONTROL REPORT

EPA METHOD 8020 - BTEX

PIT PROJECT PHASE II Monitor Well Waters: 946841 to 946847

QA/QC for 6/01/95

LABORATORY DUPLICATES:

SAMPLE NUMBER	TYPE	SAMPLE RESULT (S) (PPB)	DUPLICATE RESULT (D) (PPB)	RPD	ACCEPTABLE	
					YES	NO
946842					RANGE	
Benzene	2nd Run	5.52	5.45	1%	+/- 35 %	X
Toluene	2nd Run	33.3	32.8	2%	+/- 35 %	X
Ethyl benzene	2nd Run	0.79	0.80	1%	+/- 35 %	X
Total Xylenes	2nd Run	30.3	29.7	2%	+/- 35 %	X

Narrative: Acceptable.

LABORATORY CALIBRATION CHECKS, LABORATORY CONTROL SAMPLES:

SAMPLE NUMBER	TYPE	KNOWN RESULT (PPB)	FOUND RESULT (PPB)	ZR	ACCEPTABLE	
					YES	NO
ICV					RANGE	
50 PPB std						
Benzene	Standard	50.0	45.8	91.6	75 - 125 %	X
Toluene	Standard	50.0	47.0	93.9	75 - 125 %	X
Ethyl benzene	Standard	50.0	46.0	92.0	75 - 125 %	X
Total Xylenes	Standard	150	140.4	93.6	75 - 125 %	X

SAMPLE NUMBER	TYPE	KNOWN RESULT (PPB)	FOUND RESULT (PPB)	ZR	ACCEPTABLE	
					YES	NO
LCS					RANGE	
50 PPB						
Benzene	Standard	50.0	44.8	90	39 - 150	X
Toluene	Standard	50.0	45.7	91	46 - 148	X
Ethyl benzene	Standard	50.0	44.0	88	32 - 160	X
Total Xylenes	Standard	150	134.9	90	Not Given	X

Narrative: Acceptable.

LABORATORY SPIKES:

SAMPLE NUMBER	SPIKE ADDED (SA) PPB	SAMPLE RESULT (S) (PPB)	SPIKE SAMPLE RESULT (SR) (PPB)	ZR	ACCEPTABLE	
					YES	NO
946842					RANGE	
Benzene	50.0	5.52	45.2	79	75 - 125 %	X
Toluene	50.0	33.3	78	89	75 - 125 %	X
Ethyl benzene	50.0	0.79	45.0	88	75 - 125 %	X
Total Xylenes	150	30.3	168	92	75 - 125 %	X

Narrative: Matrix interference problems with this sample.

LABORATORY, REAGENT AND TRIP BLANKS:

SAMPLE ID	SOURCE	Component (PPB)	STATUS
Benzene	EPNG Water/MeOH	<2.5	ACCEPTABLE
Toluene	EPNG Water/MeOH	<2.5	ACCEPTABLE
Ethyl benzene	EPNG Water/MeOH	<2.5	ACCEPTABLE
Total Xylenes	EPNG Water/MeOH	<7.5	ACCEPTABLE

Narrative: Acceptable!

Approved By:

John Jordan

Date: 1-Jun-95

Phase III Excavation

FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	NS132	947784
MTR CODE SITE NAME:	74943	NM COM G #1
SAMPLE DATE TIME (Hrs):	11/15/95	1430
PROJECT:	Phase III Excavation	
DATE OF TPH EXT. ANAL.:	11/17/95	11/17/95
DATE OF BTEX EXT. ANAL.:	11/16/95	11/16/95
TYPE DESCRIPTION:	VG	Light brown 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	12.5	PPM				
PERCENT SOLIDS	85.3	%				

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

The Surrogate Recovery was at 91.0 for this sample All QA/QC was acceptable.

Narrative:

DF = Dilution Factor Used

Approved By: _____

John Latta

INGVZPIT.XLS

Date: _____

1/21/95

RECON®/Geoprobe

SITE ACTIVITIES

21-Feb-97

Meter/Line #: 74943

Location/Line #: NM Com G #1

MW#:

Depth to GW:

Depth to Product:

Product Thickness:

Date: 10/24/96

Activity: Geoprobe

Comments: Install 3 piezos & 1 probe hole. PZ1 in center of pit



EL PASO FIELD SERVICES

FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	CMC227	947951
MTR CODE SITE NAME:	74943	NM Com G 1
SAMPLE DATE TIME (Hrs):	10/24/96	1505
PROJECT:	Geoprobe	
DATE OF BTEX EXT. ANAL.:	10/28/96	10/28/96
TYPE DESCRIPTION:	PZ1	Water

Field Remarks: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q		
BENZENE	<1	PPB				
TOLUENE	<1	PPB				
ETHYL BENZENE	<1	PPB				
TOTAL XYLENES	<3	PPB				
TOTAL BTEX	<6	PPB				

-BTEX is by EPA Method 8020 -

The Surrogate Recovery was at 97.6 % for this sample All QA/QC was acceptable.
DF = Dilution Factor Used

Narrative: _____

Approved By: _____

Date: 10/30/96



EL PASO FIELD SERVICES



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	CMC228	947952
MTR CODE SITE NAME:	74943	NM Com G 1
SAMPLE DATE TIME (Hrs):	10/24/96	1620
PROJECT:	Geoprobe	
DATE OF BTEX EXT. ANAL.:	10/28/96	10/28/96
TYPE DESCRIPTION:	PH4	Water

Field Remarks: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q		
BENZENE	<1	PPB				
TOLUENE	3.55	PPB				
ETHYL BENZENE	<1	PPB				
TOTAL XYLENES	3.77	PPB				
TOTAL BTEX	7.32	PPB				

-BTEX is by EPA Method 8020 -

The Surrogate Recovery was at 94.2 % for this sample All QA/QC was acceptable.
DF = Dilution Factor Used

Narrative: _____

Approved By: _____

Date: _____

10/30/96

EL PASO FIELD SERVICES

FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	CMC229	947953
MTR CODE SITE NAME:	74943	NM Com G 1
SAMPLE DATE TIME (Hrs):	10/25/96	1000
PROJECT:	Geoprobe	
DATE OF BTEX EXT. ANAL.:	10/28/96	10/28/96
TYPE DESCRIPTION:	PZ2	Water

Field Remarks: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q		
BENZENE	<1	PPB				
TOLUENE	1.20	PPB				
ETHYL BENZENE	<1	PPB				
TOTAL XYLENES	<3	PPB				
TOTAL BTEX	1.20	PPB				

—BTEX is by EPA Method 8020 —

The Surrogate Recovery was at 96.3 % for this sample All QA/QC was acceptable.
DF = Dilution Factor Used

Narrative:

Approved By: John Lorch

Date: 10/30/96

EL PASO FIELD SERVICES

FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	CMC230	947954
MTR CODE SITE NAME:	74943	NM Com G 1
SAMPLE DATE TIME (Hrs):	10/25/96	1015
PROJECT:	Geoprobe	
DATE OF BTEX EXT. ANAL.:	10/28/96	10/28/96
TYPE DESCRIPTION:	PZ3	Water

Field Remarks: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q		
BENZENE	<1	PPB				
TOLUENE	<1	PPB				
ETHYL BENZENE	<1	PPB				
TOTAL XYLENES	<3	PPB				
TOTAL BTEX	<6	PPB				

—BTEX is by EPA Method 8020 —

The Surrogate Recovery was at 97.1 % for this sample All QA/QC was acceptable.
DF = Dilution Factor Used

Narrative: _____

Approved By: _____

John J. [Signature]

Date: _____

10/30/96

EPFS

EL PASO FIELD SERVICES

QUALITY CONTROL REPORT EPA METHOD 8020 - BTEX

Samples: 947950 - 947955

QA/QC for 10/28/96 Sample Set

LABORATORY CALIBRATION CHECKS / LABORATORY CONTROL SAMPLES:

SAMPLE NUMBER	TYPE	EXPECTED RESULT PPB	ANALYTICAL RESULT PPB	%R	ACCEPTABLE	
					YES	NO
ICV LA-52589 50 PPB					RANGE	
Benzene	Standard	50.0	53.6	107	75 - 125 %	X
Toluene	Standard	50.0	52.8	106	75 - 125 %	X
Ethylbenzene	Standard	50.0	52.8	106	75 - 125 %	X
m & p - Xylene	Standard	100	102	102	75 - 125 %	X
o - Xylene	Standard	50.0	53.0	106	75 - 125 %	X
LCS LA-45476 25 PPB					RANGE	
Benzene	Standard	25.0	26.9	108	39 - 150	X
Toluene	Standard	25.0	26.4	106	46 - 148	X
Ethylbenzene	Standard	25.0	26.5	106	32 - 160	X
m & p - Xylene	Standard	50.0	50.7	101	Not Given	X
o - Xylene	Standard	25.0	26.7	107	Not Given	X
CCV LA-52589 50 PPB					RANGE	
Benzene	Standard	50.0	52.0	104	75 - 125 %	X
Toluene	Standard	50.0	50.9	102	75 - 125 %	X
Ethylbenzene	Standard	50.0	51.0	102	75 - 125 %	X
m & p - Xylene	Standard	100	97.1	97.1	75 - 125 %	X
o - Xylene	Standard	50.0	51.3	103	75 - 125 %	X
CCV LA-52589 50 PPB					RANGE	
Benzene	Standard	50.0	51.8	104	75 - 125 %	X
Toluene	Standard	50.0	50.7	101	75 - 125 %	X
Ethylbenzene	Standard	50.0	50.6	101	75 - 125 %	X
m & p - Xylene	Standard	100	96.4	96.4	75 - 125 %	X
o - Xylene	Standard	50.0	51.2	102	75 - 125 %	X

Narrative: Acceptable.

QUALITY CONTROL REPORT
EPA METHOD 8020 - BTEX
Samples: 947950 - 947955

LABORATORY DUPLICATES:

SAMPLE ID	TYPE	SAMPLE RESULT PPB	DUPLICATE RESULT PPB	RPD	ACCEPTABLE	
					RANGE	YES NO
947951						
Benzene	Matrix Duplicate	<1.0	<1.0	0.00	+/- 20 %	X
Toluene	Matrix Duplicate	<1.0	<1.0	0.00	+/- 20 %	X
Ethylbenzene	Matrix Duplicate	<1.0	<1.0	0.00	+/- 20 %	X
m & p - Xylene	Matrix Duplicate	<2.0	<2.0	0.00	+/- 20 %	X
o - Xylene	Matrix Duplicate	<1.0	<1.0	0.00	+/- 20 %	X

Narrative: Acceptable.

LABORATORY SPIKES:

SAMPLE ID	SPIKE ADDED PPB	SAMPLE RESULT PPB	SPIKE SAMPLE RESULT PPB	%R	ACCEPTABLE	
					RANGE	YES NO
2nd Analysis 947951						
Benzene	50	<1.0	52.4	105	75 - 125 %	X
Toluene	50	<1.0	51.9	104	75 - 125 %	X
Ethylbenzene	50	<1.0	51.7	103	75 - 125 %	X
m & p - Xylene	100	<2.0	97.9	97.9	75 - 125 %	X
o - Xylene	50	<1.0	52.0	104	75 - 125 %	X

Narrative: Acceptable

ADDITIONAL ANALYTICAL BLANKS:

AUTO BLANK	SOURCE	PPB	STATUS
Benzene	Boiled Water	<1.0	ACCEPTABLE
Toluene	Boiled Water	<1.0	ACCEPTABLE
Ethylbenzene	Boiled Water	<1.0	ACCEPTABLE
Total Xylenes	Boiled Water	<3.0	ACCEPTABLE

Narrative: Acceptable.

SOIL VIAL BLANK	SOURCE Lot MB1461	PPB (Analyzed with this set)	STATUS
Benzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Toluene	Vial + Boiled Water	<1.0	ACCEPTABLE
Ethylbenzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Total Xylenes	Vial + Boiled Water	<3.0	ACCEPTABLE

Narrative: Acceptable.

CONTAMINATION CARRYOVER CHECK	SOURCE	PPB (None analyzed with this set)	STATUS
Benzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Toluene	Vial + Boiled Water	<1.0	ACCEPTABLE
Ethylbenzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Total Xylenes	Vial + Boiled Water	<3.0	ACCEPTABLE

Narrative: Acceptable.

Reported By: mdw

Approved By: John T. [Signature]

Date: 10/30/96