

EPFS GROUNDWATER PITS

1998 CLOSURE REPORT

DEPUTY OIL & GAS INSPECTOR

FLORANCE #1

Meter/Line ID - 71512

AUG 16 1999

RECEIVED
APR - 2 1999

SITE DETAILS

Legals - Twn: 30N Rng: 11W
NMOCD Hazard Ranking: 50
Operator: KEYES

Sec: 8 Unit: J
Land Type: FEE

OIL CON. DIV.
DIST. 3

PREVIOUS ACTIVITIES

Site Assessment: Dec-94

Excavation: Dec-94 (60 cy)

Soil Boring: Feb-97

Re-Excavation: Mar-97 (280 cy)

Monitor Well: May-97

The pit was excavated to 12 feet beneath ground surface (bgs) and a composite soil sample was collected from the excavation bottom and four walls. Approximately 60 cubic yards of impacted soil was removed during excavation. The headspace soil reading from the excavation bottom was 445 ppm. Soil analytical were as follows; benzene - 0.527 mg/kg, total BTEX - 9.43 mg/kg, TPH (418.1) - 1,130 mg/kg.

The pit was re-excavated to 14 feet bgs where groundwater was encountered. Approximately 280 additional cubic yards of contaminated soil were removed from the excavation. The final headspace soil reading from the excavation bottom was 18 ppm. Soil analytical was as follows: benzene - Non-detect, total BTEX - Non-detect, TPH (418.1) - Non-detect. Prior to backfilling the excavation, one-half gallon of 30% Hydrogen Peroxide was introduced to the excavation to aid in natural biodegradation of residual hydrocarbons.

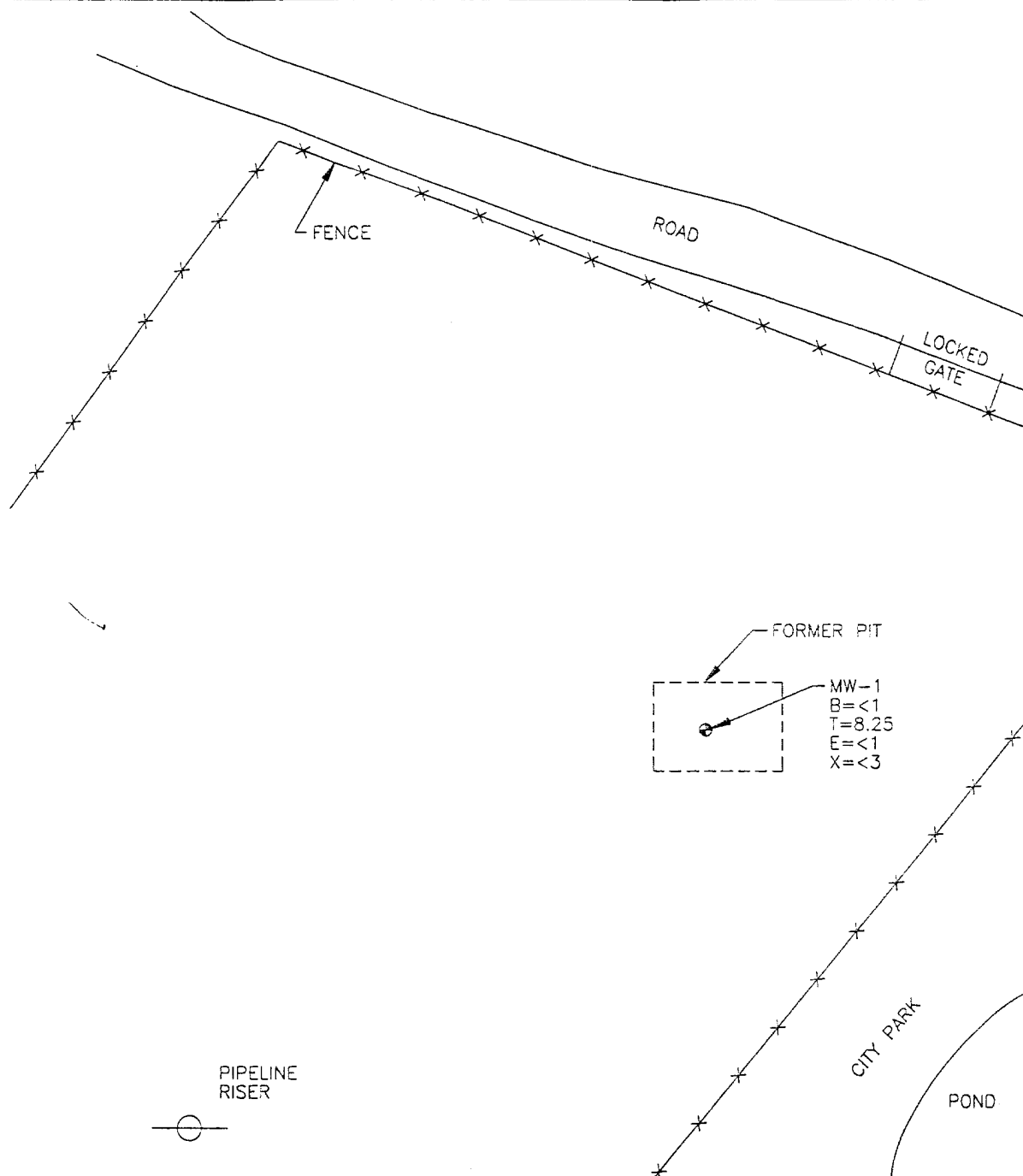
One soil boring was drilled in the center of the former pit and a monitoring well was installed. There were no samples collected from the soil boring. Quarterly groundwater monitoring was initiated on 8/11/97 and continued through 5/8/98. Groundwater analytical data are presented in Table 1. Groundwater analytical data prior to 1998 has been previously submitted in the 1997 Annual Report.

CONCLUSIONS

Groundwater analytical data has been below standards for 4 consecutive quarters since quarterly sampling was initiated, indicating minimal impact to groundwater.

RECOMMENDATIONS

- EPFS request closure at this site.
- Following OCD approval for closure, MW-1 will be abandoned following OCD approved abandonment procedures.



LEGEND

- MW-1 APPROXIMATE MONITORING WELL LOCATION AND NUMBER
- B BENZENE (ug\L)
- T TOLUENE (ug\L)
- E ETHYL BENZENE (ug\L)
- X XYLENE (ug\L)
- ug\L MICROGRAMS PER LITER

NOT TO SCALE



COL. 175204P-001



TITLE:
FLORANCE #1
71512

DWN:	DES.:
TMM	CC
CHKD:	APPD:
CC	
DATE:	REV.:
1/19/98	0

PROJECT NO.: 17520
EPFS GW PITS

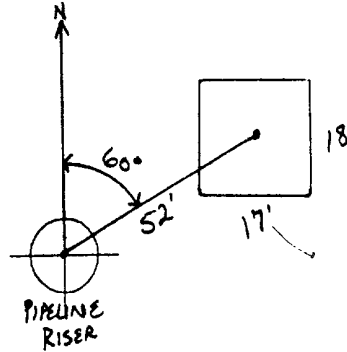
FIGURE 1

FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: <u>71512</u> Location: <u>FLORENCE #1</u> Operator #: _____ Operator Name: <u>B.H. KEYS</u> P/L District: <u>KUTZ</u> Coordinates: Letter: <u>J</u> Section: <u>8</u> Township: <u>30</u> Range: <u>11</u> Or Latitude _____ Longitude _____ Pit Type: Dehydrator <u>X</u> Location Drip: <u>X</u> Line Drip: _____ Other: _____ Site Assessment Date: <u>12-12-94</u> Area: <u>02</u> Run: <u>53</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 <u>ANIMAS RIVER</u> (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>50</u> POINTS
REMARKS	Remarks : <u>REDLINE #1 TOPO SHOW LOCATION INSIDE V.Z. LOCATION IS PAVED AND CLEARED OFF THE ONLY THING LEFT ON LOCATION IS A PIT. TYPE OF PIT IS UNKNOWN AS WELL AS WHO IS RESPONSIBLE FOR IT. WILL CLOSE PIT IF IT IS EPNG'S.</u> <u>DIG & HAUL</u>

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 60° Footage from Wellhead 52'
b) Length : 18' Width : 17' Depth : 3'



Remarks :

PHOTOS - 1018

COULD NOT FIND PLUGGED WELLHEAD. MEASURED DISTANCE FROM PIT TO A PIPELINE RISER
ON THE S.E. CORNER OF THE LOCATION. FOUND BEARING TO THE RISER ALSO.

Completed By:

Pete Champion

Signature

12.12.94

Date

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	<i>KD 2/15/94</i> Meter: <u>71512</u> Location: <u>FLORENCE #1</u> Coordinates: Letter: <u>J</u> Section <u>8</u> Township: <u>30</u> Range: <u>11</u> Or Latitude _____ Longitude _____ Date Started : <u>12/15/94</u> Run: <u>02 53</u>
FIELD OBSERVATIONS	Sample Number(s): <u>KD 387</u> Sample Depth: <u>12'</u> Feet Final PID Reading <u>445 ppm</u> PID Reading Depth: <u>12'</u> Feet Yes No Groundwater Encountered ☐ ☒ Approximate Depth _____ Feet
CLOSURE	Remediation Method : Excavation ☒ Approx. Cubic Yards <u>60</u> Onsite Bioremediation ☐ Backfill Pit Without Excavation ☐ Soil Disposition: <i>KD 12/15/94</i> Envirotech ☒ ☒ Tierra Other Facility ☐ Name: _____ Pit Closure Date: <u>12/15/94</u> Pit Closed By: <u>BEI</u>
REMARKS	Remarks : <u>Excavated pit to 12', Took PID Sample, Closed pit.</u> _____ _____
	Signature of Specialist: <u><i>Henry Deane</i></u>



SPLIT

FIELD SERVICES LABORATORY

ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

SAMPLE NUMBER:

Field ID

Lab ID

KD 387	946534
71512	N/A
12-15-94	1145
N/A	
12-21-94	12-21-94
12/19/94	12/22/94
VC	Dark Brown/gray sand & clay

MTR CODE | SITE NAME:

SAMPLE DATE | TIME (Hrs):

SAMPLED BY:

DATE OF TPH EXT. | ANAL.:

DATE OF BTEX EXT. | ANAL.:

TYPE | DESCRIPTION:

REMARKS: BTEX results from ATI and EPNG

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS				ATI Results
			DF	Q	M(g)	V(ml)	
BENZENE	0.527	MG/KG	0.1033		4.84	20	1.7
TOLUENE	1.46	MG/KG	1		1	1	14
ETHYL BENZENE	0.973	MG/KG	1		1	1	0.36
TOTAL XYLENES	6.47	MG/KG	1		1	1	2.3
TOTAL BTEX	9.43	MG/KG					18.4
TPH (418.1)	1130	MG/KG			1.97	28	—
HEADSPACE PID	445	PPM					Surrogate % 74
PERCENT SOLIDS	88.1	%					Dilution Factor 10

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

Surrogate Recovery was at 106.8 for this samp All QA/QC was acceptable.

Signature:

ATI Results attached

= Dilution Factor Used

Approved By: JSDate: 2-22-95



Analytical **Technologies, Inc.**

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

ATI I.D. **412409**

January 5, 1995

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On 12/22/94, 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.

Sample 946534 was analyzed within EPA recommended hold time (2A). However, after further examination of the continuing standard, it was determined that xylenes exceeded criteria (117 vs. 115). The sample was then analyzed outside of hold time (2B) to confirm the earlier result and satisfy calibration criteria. Both sets of data are reported.

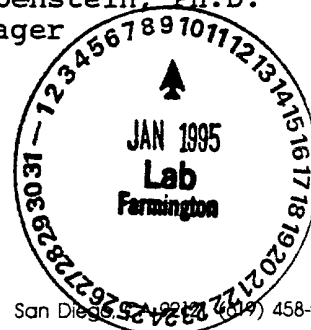
If you have any questions or comments, please do not hesitate to contact us at (505) 344-3777.

Letitia Krakowski, Ph.D.
Project Manager

H. Mitchell Rubenstein, Ph.D.
Laboratory Manager

MR:jt

Enclosure





Analytical Technologies, Inc.

GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)
CLIENT : EL PASO NATURAL GAS CO ATI I.D.: 412409
PROJECT # : 24324
PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	946533	NON-AQ	12/15/94	12/27/94	12/29/94	20
02A	946534	NON-AQ	12/15/94	12/27/94	12/29/94	10
02B	946534	NON-AQ	12/15/94	12/27/94	01/04/95	10

PARAMETER	UNITS	01	02A	02B
BENZENE	MG/KG	<0.50	1.7	1.2
TOLUENE	MG/KG	5.3	14	13
XYLBENZENE	MG/KG	0.87	0.36	0.30
TOTAL XYLENES	MG/KG	3.9	2.3	2.1

SURROGATE:

BROMOFLUOROBENZENE (%)	97	74	68
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BTEX SOIL SAMPLE WORKSHEET

File	:	946534B	Date Printed	:	12/26/94
Soil Mass (g)	:	4.84	Multiplier (L/g)	:	0.00103
Extraction vol. (mL)	:	20	DF (Analytical)	:	100
Shot Volume (uL)	:	200	DF (Report)	:	0.10331

				Det. Limit
Benzene (ug/L)	:	5.10	Benzene (mg/Kg):	0.527 0.517
Toluene (ug/L)	:	14.14	Toluene (mg/Kg):	1.461 0.517
Ethylbenzene (ug/L)	:	9.42	Ethylbenzene (mg/Kg):	0.973 0.517
p & m-xylene (ug/L)	:	52.93	p & m-xylene (mg/Kg):	5.468 1.033
o-xylene (ug/L)	:	9.66	o-xylene (mg/Kg):	0.998 0.517
			Total xylenes (mg/Kg):	6.466 1.550
			Total BTEX (mg/Kg):	9.427

RECORD OF SUBSURFACE EXPLORATION

PHILIP ENVIRONMENTAL SERVICES INC.

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

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

Project Name EPFS GW PITS
Project Number 17520 Phase 6001.77
Project Location FLORENCE #1 - 71512

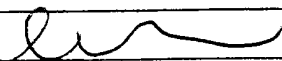
Elevation _____
Borehole Location T30-R11-S8-Ltr J
GWL Depth 14' BGS
Logged By D CESARK
Drilled By M DONOHUE
Date/Time Started 2/24/97 - 1115
Date/Time Completed 11 - 1200

Well Logged By D CESARK
Personnel On-Site K PADILLA, D CHARLEY
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 BZ BH S			Drilling Conditions & Blow Counts <TIME>
0				BACKFILL						
5				TO						
10				12'						
15	1	13'-15'	18"	MED. GRAY, DARK GRAY HC-STAINED SILTY SAND, STRONG HC ODDER.	SM					211207 604
20				TD=15'						
25										
30										
35										
40										

Comments: TD=15', GW ENCOUNTERED @ 14' BGS. GW @ 20' SO NO WELL COMPLETED.
SAMPLE COLLECTED IMMED. ABOVE GW, HIGHLY CONTAMINATED, SO NO
SAMPLE SUBMITTED TO LAB FOR ANALYSES.

Geologist Signature



FIELD PIT REMEDIATION/CLOSURE FORM/PHASE II

GENERAL

Meter: 76512 Location: Florange #1
 Coordinates: Letter: I Section 8 Township: 30 Range: 11
 Or Latitude _____ Longitude _____
 Date Started : 3-31-97 Area: 0.2 Run: 53

FIELD OBSERVATIONS

Sample Number(s): MKS 25
 Sample Depth: 45' Feet
 Final PID Reading 18 ppm PID Reading Depth 15' Feet
 Yes No
 Groundwater Encountered ☒ (1) ☐ (2) Approximate Depth 14 Feet
 Final Dimensions: Length 35 Width 29 Depth 15

CLOSURE

Remediation Method :
 Excavation ☒ (1) Approx. Cubic Yards 280
 Onsite Bioremediation ☐ (2)
 Backfill Pit Without Excavation ☐ (3)
 Overburden Cubic Yards 282 yd
 Soil Disposition:
 Envirotech ☒ (1) ☐ (3) Tierra
 Other Facility ☐ (2) Name: _____
 Pit Closure Date: _____ Pit Closed By: Philip

REMARKS

Remarks : Hit contaminated soil at 10'. Hit water at 14'
we hit clean soil at 15' in bottom
400ppm couldn't dig that way any more because of house boat S-wall
0 ppm E-wall 1 ppm N-wall 2 ppm Bottom 2 ppm 1/2 gallon Hydrogen
Peroxide 30 %

Signature of Specialist: Morgan Killian



CHAIN OF CUSTODY RECORD

PROJECT NAME Pit Closure Project					
PROJECT NUMBER # 24324	DATE: 3-31-97				
SAMPLERS: (Signature) <i>Morgan Kielion</i>					
LAB ID	DATE	TIME	MATRIX	FIELD ID	
970230	3-31-97	1515	soil	MK585	
RECEIVED BY: (Signature) DATE/TIME RECEIVED BY: (Signature)					
RELINQUISHED BY: (Signature) <i>Morgan Kielion</i>			DATE/TIME 34°		
RELINQUISHED BY: (Signature)			DATE/TIME 3-31-97 1745		
REQUESTED TURNAROUND TIME: ☐ ROUTINE ☐ RUSH					
CARRIER CO.					
SAMPLE RECEIPT REMARKS					
RESULTS & INVOICES TO:					
FIELD SERVICES LABORATORY EL PASO NATURAL GAS COMPANY P.O. BOX 4990 FARMINGTON, NEW MEXICO 87499					
BILL NO.: 505-599-2144 FAX: 505-599-2261					

4-15-97

**FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT****SAMPLE IDENTIFICATION**

	Field ID	Lab ID
SAMPLE NUMBER:	MK585	970230
MTR CODE SITE NAME:	71512	Florance #1
SAMPLE DATE TIME (Hrs):	3/31/97	1515
PROJECT:	PHASE III - Excavation	
DATE OF TPH EXT. ANAL.:	3/31/97	3/31/97
DATE OF BTEX EXT. ANAL.:	4/7/97	4/7/97
TYPE DESCRIPTION:	VC	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			2.41	28
HEADSPACE PID	18	PPM				
PERCENT SOLIDS	84.4	%				

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

The Surrogate Recovery was at 102 for this sample All QA/QC was acceptable.
N tive:

DF = Dilution Factor Used

Approved By: John L. L... INGVZPIT.XLS Date: 4/9/97

RECORD OF SUBSURFACE EXPLORATION

PHILIP ENVIRONMENTAL SERVICES INC.

4000 Monroe Road

Farmington, New Mexico 87401

(505) 326-2262 FAX (505) 326-2358

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

Project Name EPFS GW PITS
Project Number 17520 Phase 6001
Project Location Florange #1 7/5/2

Elevation _____
Borehole Location T30-R11-S8-Ltr J
GWL Depth _____
Logged By CM CHANCE
Drilled By K Padilla
Date/Time Started 5/7/97 - 1300
Date/Time Completed 5/7/97 - 1345

Well Logged By CM CHANCE
Personnel On-Site D CHARLEY
Contractors On-Site _____
Client Personnel On-Site _____
Drilling Method 6 1/4 ID HSA
Air Monitoring Method 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: PPM			Drilling Conditions & B.c.w Counts
							BZ	BH	S	
0										
5										
10										
15				Backfill to 15'						-GW@12.9'
20				Gry - Br SAND, F-med, mod gravel, saturated						-Gravel @ 17'
25										-Refusal @ 18.5'
30										
35										
40										

Comments:

No sample collected. Backfill to 15'. GW@12.9'

Geologist Signature

CM Chance

MONITORING WELL INSTALLATION RECORD

Philip Environmental Services, Inc.

4000 Monroe Rd.

Farmington, NM 87401

(505) 326-2262 FAX (505) 326-2388

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

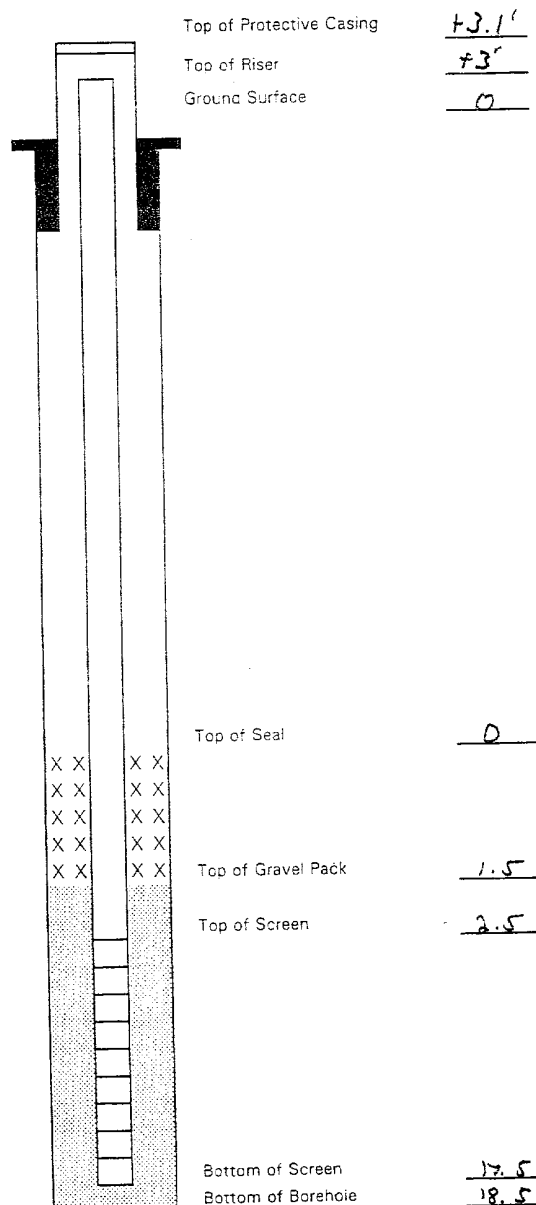
Project Name EPFS GW
Project Number 17520 Phase 6002
Site Location Florange #1 7151A

On-Site Geologist CM CHANCE
Personnel On-Site D CHARLEY
Contractors On-Site _____
Client Personnel On-Site _____

Elevation _____
Well Location UDR 11 8 8 LTR J
GWL Depth 12.9' BGS
Installed By K Padilla

Date/Time Started 5/7/97 - 1245
Date/Time Completed 5/7/97

Depths in Reference to Ground Surface				
Item	Material	Depth (feet)		
Top of Protective Casing	8" steel well vault	+3.1	Top of Protective Casing <u>+3.1'</u>	
Bottom of Protective Casing		2	Top of Riser <u>+3'</u>	
Top of Permanent Borehole Casing		N/A	Ground Surface <u>0</u>	
Bottom of Permanent Borehole Casing		N/A		
Top of Concrete		N/A		
Bottom of Concrete		N/A		
Top of Grout	Type I/II Portland cement	N/A		
Bottom of Grout	Powder Bentonite	N/A		
Top of Well Riser	4" SCH 40 PVC	+3		
Bottom of Well Riser	FLUSH THREAD	2.5		
Top of Well Screen	4" SCH 40 PVC	2.5		
Bottom of Well Screen	0.01 SLOT FLUSH THREAD	12.5		
Top of Peltonite Seal	ENVIROPLUG	0		
Bottom of Peltonite Seal		1.5		
Top of Gravel Pack	10-20 SILICA SAND	1.5		
Bottom of Gravel Pack		12.5		
Top of Natural Cave-In		12.5		
Bottom of Natural Cave-In		18.5		
Top of Groundwater		12.9		
Total Depth of Borehole		18.5'		



Comments: Seal hydrated w/ 5 gal potable water. Locking well cap & padlock placed on well

MWINSTAL.wk1

Geologist Signature

CM Chance

Well Number 71512(mw-1)

Serial No. WDPD-

Project Name EPFS GW PITS
C1 PASO FIELD SERV.

Client Company EL PASO FLOW SERVICES
 Site Name FLORENCE #1

Development Criteria

☒ Casing Volumes of Water Removal

~~3 to 6~~ **CLASING VOLUMES OF WATER**

☒ Other

Methods of Development

Pump

☐ Centrifugal

☒ Bottom Valve

☐ Centrifugal ☒ Constant Pressure ☐ Double Check Valve

- ☐ Submersible
- ☐ Double Overhead Crane
- ☐ Stainless-steel Kemmerer
- ☐ Peristaltic

☐ Other:

☒ Development

WELL DEVELOPMENT AND PURGING DATA

Project Manager Cory Chance

Site Address AZTEC, NM

Water Volume Calculation

Water Volume Calculation

Initial Depth of Well (feet) 6.43

Initial Depth to Water (feet) 2.1 3.80

Height of Water Column in Well (feet)	Gravel Pack
2.2	4

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing	3.80	2.49	12.45
Gravel Pack			
Drilling Fluids			
Total			12.45

Instruments
Serial No. (if applicable)

☒ pH Meter

☐ Do Monitor

~~X~~ Conductivity Meter

Temperature Meter

—

Water Disposal

ON GROUND ON SITE

Water Removal Data

[illegible]

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

Comments	WELL-BAILED DRY AFTER 4 GAL. LET RECOVER FOR 20 MIN. BEFORE NO. 100	WELL-BAILED DRY AFTER 4 GAL. LET RECOVER FOR 20 MIN. BEFORE NO. 100
Comments	WELL-BAILED DRY AFTER 4 GAL. LET RECOVER FOR 20 MIN. BEFORE NO. 100	WELL-BAILED DRY AFTER 4 GAL. LET RECOVER FOR 20 MIN. BEFORE NO. 100

BAILED DRY AGAIN, LET RECOVER 30 MIN. BAILED / MORE GAL. BAILED DRY AGAIN. 1/31/98

Developer's Signature(s) Scott Thompson Date 5.19.97 Reviewer _____ Date _____



EL PASO FIELD SERVICES



6-11-97

FIELD SERVICES LABORATORY

ANALYTICAL REPORT PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	RT1	970464
MTR CODE SITE NAME:	71512	Florance #1
SAMPLE DATE TIME (Hrs):	5/19/97	1457
PROJECT:	Phase II Drilling - Initial	
DATE OF BTEX EXT. ANAL.:	5/23/97	5/23/97
TYPE DESCRIPTION:	Monitor Well	Water

Field Remarks: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q		
BENZENE	<1	PPB				
TOLUENE	<1	PPB				
ETHYL BENZENE	<1	PPB				
TOTAL XYLENES	6.99	PPB				
TOTAL BTEX	6.99	PPB				

The Surrogate Recovery was at 95.8 for this sample All QA/QC was acceptable.
DF = Dilution Factor Used

Narrative: _____

Approved By: _____

Date: 6/3/97

970464, 6/2/97

EL PASO FIELD SERVICES LABORATORY

EPA METHOD 8020 - BTEX

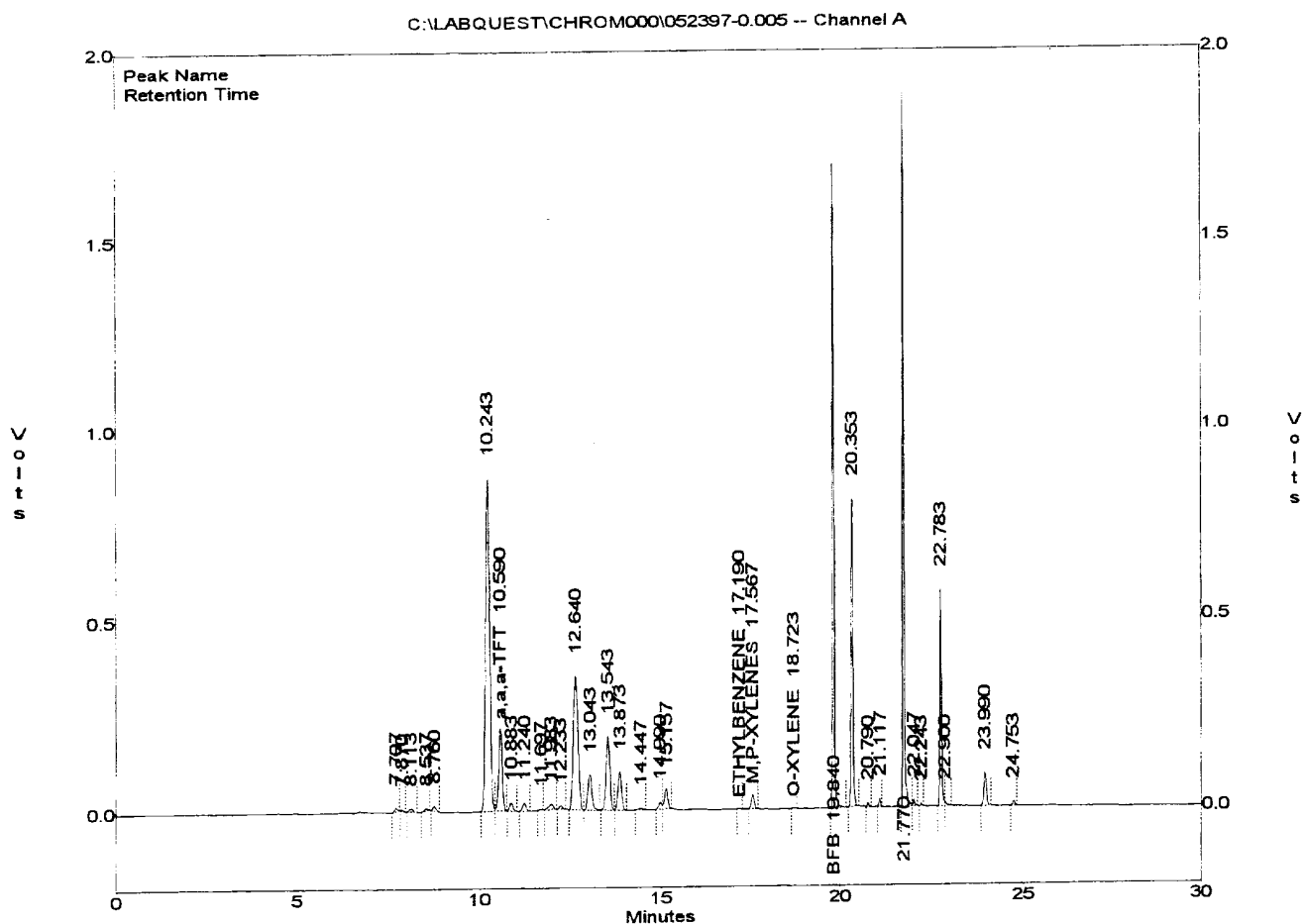
File : C:\LABQUEST\CHROM000\052397-0.005
 Method : C:\LABQUEST\METHODS\0-051397.MET
 Sample ID : 970464 X1
 Acquired : May 23, 1997 12:20:34
 Printed : May 23, 1997 12:50:59
 User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	8.390	0	0.0000
a,a,a-TFT	10.590	1407035	109.7198
TOLUENE	12.920	0	0.0000
ETHYLBENZENE	17.190	7366	0.3453
M,P-XYLENES	17.567	203250	6.5196
O-XYLENE	18.723	9264	0.4671
BFB	19.840	5368125	95.7769

Channel A Group Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
TOTAL XYLENES		212514	6.9868



EL PASO FIELD SERVICES LABORATORY

EPA METHOD 8020 - BTEX

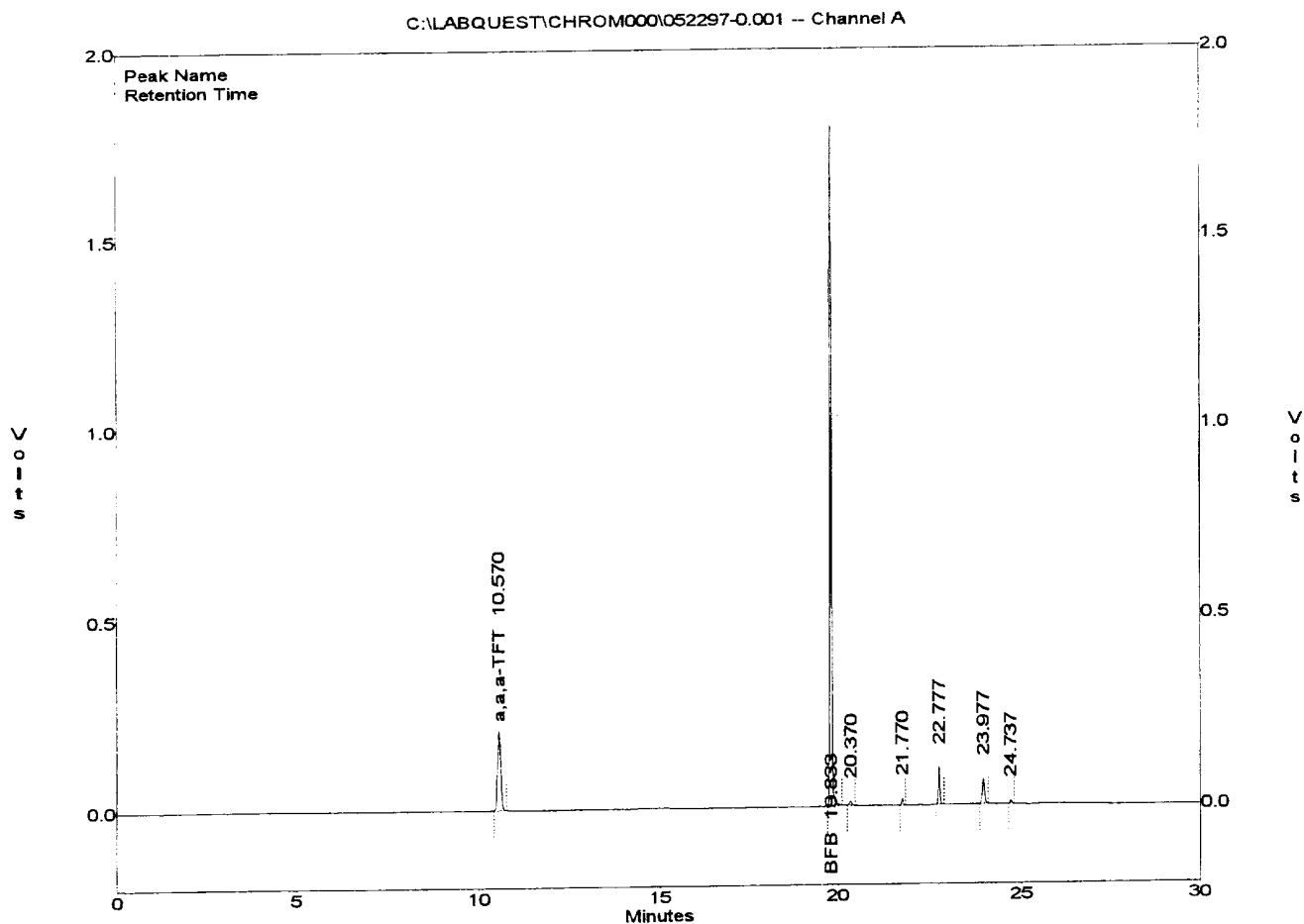
File : C:\LABQUEST\CHROM000\052297-0.001
 Method : C:\LABQUEST\METHODS\0-051397.MET
 Sample ID : 970465 X1
 Acquired : May 22, 1997 13:18:23
 Printed : May 22, 1997 13:48:48
 User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	8.390	0	0.0000
a,a,a-TFT	10.570	1277548	99.6225
TOLUENE	12.920	0	0.0000
ETHYLBENZENE	17.270	0	0.0000
M,P-XYLENES	17.647	0	0.0000
O-XYLENE	18.793	0	0.0000
BFB	19.833	5789838	103.3011

Channel A Group Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
TOTAL XYLENES		0	0.0000



BILLING INITIAL WELL SAMPLE



CHAIN OF CUSTODY RECORD

Page 1 of 1

PROJECT NUMBER # 24324		PROJECT NAME Pit Closure Project		DATE: 5-19-97		REQUESTED ANALYSIS		CONTRACT LABORATORY P. O. NUMBER	
LAB ID	DATE	TIME	MATRIX	FIELD ID	TOTAL NUMBER OF CONTAINERS	SAMPLE TYPE	TPH EPA 418.1	BTEX EPA 8020	LAB PID
970464	5-19-97	1457	H ₂ O	RT1	2			X	
970465	5-19-97			TRIP BLANK	1				
RELINQUISHED BY: (Signature) DATE/TIME 5-19-97 1630 RECEIVED BY: (Signature) RELINQUISHED BY: (Signature) DATE/TIME 5-20-97 10:55 RECEIVED BY: (Signature) REQUESTED TURNAROUND TIME: ☐ ROUTINE ☐ RUSH SAMPLE RECEIPT REMARKS CARRIER CO. CHARGE CODE BILL NO.: 505-599-2144 RESULTS & INVOICES TO: FIELD SERVICES LABORATORY EL PASO NATURAL GAS COMPANY P.O. BOX 4990 FARMINGTON, NEW MEXICO 87499									

Monit														
Sample #	Meter/ Line #	Site Name	Sample Date	Project	S1	Benzene (PPB)	S2	Toluene (PPB)	S3	Ethyl Benzene (PPB)	S4	Total Xylenes (PPB)	S7	Total BTEX PPB
70464 *	71512	Florance #1	5/19/97	Phase II Drilling - Initial	<	1	<	1	<	1	=	6.99	=	7
70842 *	71512	Florance #1	8/11/97	Sample 4 - 1st Qtr	<	1	=	11.7	<	1	<	3	=	12
71188 *	71512	Florance #1	11/5/97	Sample 4 - 2nd Qtr	<	1	=	8.25	<	1	<	3	=	8
780148	71512	Florance #1	2/6/98	Sample 4 - 3rd Qtr	<	1	=	5.39	<	1	<	3	=	5
780385	71512	Florance #1	5/8/98	Sample 4 - 4th Qtr	<	1	<	1	<	1	<	3	<	6

* Analytical reports provided to NMOCD in prior annual report.

FLOPPANCE #1

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

Pump	Bailer
☐ Centrifugal	☒ Bottom Valve
☐ Submersible	☐ Double Check Valve
☐ Peristaltic	☐ Stainless-steel Kemmerer

☐ Other

Water Volume Calculation

Initial Depth of Well (feet) 20.30
Initial Depth to Water (feet) 17.12
Height of Water Column in Well (feet) 3.18

Diameter (inches): Well 4 Gravel Pack

Diameter (inches)	Item	Water Volume in Well		Gallons to be Removed
		Cubic Feet	Gallons	
	Well Casing		2.1	6.3
	Gravel Pack			
	Drilling Fluids			
	Total			

☒ pH Meter
☐ DO Monitor
☒ Conductivity Meter
☒ Temperature Meter
☒ Other D.O. Controller

Water Disposal

Water Disposal
KUTZ SEPARATOR

Water Removal Data

[illegible]

THE WELL BAILED DRP @ 3.0 GALLONS.

Tennis Bird

Reviewer

Date 2-6-98

Date:

3/2/98



EL PASO FIELD SERVICES

FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	N/A	980148
MTR CODE SITE NAME:	71512	Florance #1
SAMPLE DATE TIME (Hrs):	2/6/98	1152
PROJECT:	Sample 4 3rd Quarter	
DATE OF BTEX EXT. ANAL.:	2/18/98	2/18/98
TYPE DESCRIPTION:	MW-1	Water

Field Remarks: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q		
BENZENE	<1	PPB				
TOLUENE	5.39	PPB				
ETHYL BENZENE	<1	PPB				
TOTAL XYLENES	<3	PPB				
TOTAL BTEX	5	PPB				

--BTEX is by EPA Method 8020 --

The Surrogate Recovery was at 88.4 % for this sample All QA/QC was acceptable.
DF = Dilution Factor Used

Narrative: _____

Approved By: John Ladd

Date: 3/2/98

980148BTEXMW,2/19/98

CHAIN OF CUSTODY RECORD

[illegible]

Date 5/29/48



PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

TYPE | DESCRIPTION:

Field ID	Lab ID
N/A	980385
71512	Florance #1
5/8/98	1303
Sample 4 4th Quarter	
5/15/98	5/15/98
MW-1	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 102.6 % for this sample All QA/QC was acceptable.
DF = Dilution Factor Used

Narrative:

Approved By:

Date:

980385BTEXMW,5/26/98

[illegible]



5-26-98 Alal.
5-26-98 Chem
5-26-98 HISS

Project No. 4 4TH QTR

A 2353

CHAIN OF CUSTODY RECORD

Project No.	Project Name	Requested Analysis		Type and No. of Sample Containers	Preservation Technique	Remarks
5-26-98 Alal.	4TH QTR	5-26-98 Chem	5-26-98 HISS	SI 40 X	FLORANCE #1 MWT-1	
[The following rows in the table are crossed out with a diagonal line.]						
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Remarks:						
3/11/98 0745						
Carrier Co. <i>Madon Apple</i>						
Air Bill No.:						