

EPFS PIT CLOSURE SUMMARY

Denise R. Frost
DEPUTY OIL & GAS INSPECTOR

JUL 17 1998

San Juan 28-7 Unit 16
Meter/Line ID - 70865

Approved

SITE DETAILS

Legals - Twn: 27 Rng: 7
NMOCD Hazard Ranking: 40
Operator: Amoco

Sec: 30 Unit: B
Land Type: BLM

PREVIOUS ACTIVITIES

Site Assessment: 5/19/94
Monitor Well: N/A

Excavation: 6/3/94
Re-Excavation: N/A

Soil Boring: 9/19/95
Geoprobe: N/A

CONCLUSIONS

The initial excavation was excavated to the top of bedrock, which was 10 feet below ground surface (bgs). PID field screening indicated subsurface soils to be 394 ppm at 10 feet bgs. Excavation was terminated and a sample was collected. Sample analysis indicated total BTEX to be above standards at 153 mg/kg, and TPH was above standards at 2,040 mg/kg. A test boring was drilled in the center of the initial excavation to determine the vertical extent of impact to soil. A gray sandstone was encountered at 15 feet bgs followed by brown silty clay, which continued to 26 feet bgs. At 30 feet bgs a brown sandstone was encountered and the boring was terminated at 31 feet bgs. A soil sample was collected for BTEX and TPH analysis at 30-31 feet bgs. Laboratory analysis showed all BTEX compounds to be below detection limits and TPH present at 18.3 mg/kg.

RECOMMENDATIONS

No further action is recommended at the site for the following reasons:

- The bulk of the impacted soil was removed during the phase 1 excavation.
- Test boring sample results indicated soils below standards 20 feet beneath the initial excavation.
- No groundwater was encountered in the test boring.
- No potential receptors are within 1,000 feet of the site.
- Residual hydrocarbons remaining in the soils at the bottom of the initial excavation will naturally degrade in time with minimal risk to the environment.

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DIST. 3

FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: <u>70865</u> Location: <u>San Juan 28-7 U16</u> Operator #: <u>0203</u> Operator Name: <u>Amoco</u> P/L District: <u>Blanco</u> Coordinates: Letter: <u>B</u> Section <u>30</u> Township: <u>27</u> Range: <u>7</u> Or Latitude _____ Longitude _____ Pit Type: Dehydrator _____ Location Drip: _____ Line Drip: _____ Other: _____ Site Assessment Date: <u>5/19/94</u> Area: <u>03</u> Run: <u>72</u>	
	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>Cuervo Canyon</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: _____ POINTS	
REMARKS	Remarks : <u>Redline-Inside; Vuln-Inside</u> <u>1 Pit. Will close. Pit Dry</u> <u>Cuervo Canyon Feeds into Largo Canyon</u> <u>DIG & HAUL</u>	

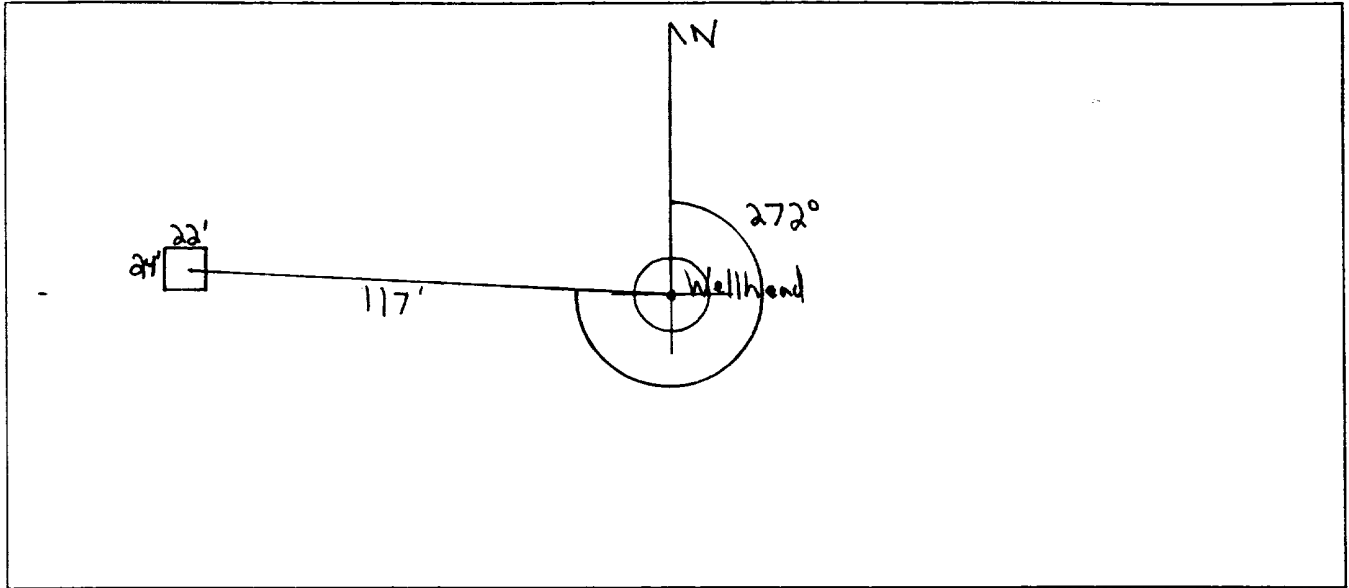
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ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 272° Footage from Wellhead 117'
b) Length : 24' Width : 22' Depth : 3'



REMARKS

Remarks :

Pictures @ 131D (1-4) roll 2
Dump Truck

Completed By:

Cory Chase
Signature

5/19/14
Date

PHASE I EXCAVATION

FILL PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: <u>70865</u> Location: <u>SAN JUAN 28-7 V16</u> Coordinates: Letter: <u>B</u> Section <u>30</u> Township: <u>27</u> Range: <u>7</u> Or Latitude _____ Longitude _____ Date Started : <u>6-3-94</u> Area: <u>03</u> Run: <u>72</u>
FIELD OBSERVATIONS	Sample Number(s): ^{KP-6394} KP# 75 <u>KP# 83</u> Sample Depth: <u>10'</u> Feet Final PID Reading <u>394</u> PID Reading Depth <u>10</u> Feet Yes No Groundwater Encountered ☐ (1) ☒ (2) Approximate Depth _____ Feet
CLOSURE	Remediation Method : Excavation ☒ (1) Approx. Cubic Yards <u>50</u> Onsite Bioremediation ☐ (2) Backfill Pit Without Excavation ☐ (3) Soil Disposition: Envirotech ☐ (1) ☒ (3) Tierra Other Facility ☐ (2) Name: _____ Pit Closure Date: <u>6-3-94</u> Pit Closed By: <u>B.E.I</u>
REMARKS	Remarks : <u>LINE MARKERS ON LOCATION. STARTED REMEDIATING TO</u> <u>12'. SOIL TURNED BLACK AT 3' SMELL BAD. WENT DOWN 10'</u> <u>HIT ROCK TOOK HEAVED HEAD SPACE. PID 394. CLOSED PIT</u>
	Signature of Specialist: <u>Kelly Padilla</u>



FIELD SERVICES LABORATORY
ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KP83	945350
MTR CODE SITE NAME:	70865	San Juan 28-7 Unit 16
SAMPLE DATE TIME (Hrs):	3-Jun-94	1423
PROJECT:	Phase I Excavation	
DATE OF TPH EXT. ANAL.:	6/6/94	6/6/94
DATE OF BTEX EXT. ANAL.:	6/6/94	6/6/94
TYPE DESCRIPTION:	VC	Brown Sand and Clay

Field Remarks:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	<0.025	MG/KG				
TOLUENE	4.76	MG/KG				
ETHYL BENZENE	11.6	MG/KG				
TOTAL XYLENES	137	MG/KG				
TOTAL BTEX	153	MG/KG				
TPH (418.1)	2,040	MG/KG			2.03	28.0
HEADSPACE PID	394	PPM				
PERCENT SOLIDS	91.3	%				

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

The Surrogate Recovery was at 102.0 % for this sample All QA/QC was acceptable.
Narrative:

DF = Dilution Factor Used

Approved By:

John Larkin

Date:

Original 7/17/94
Reprint 2/10/98

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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      *
*****

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94/06/06 14:26

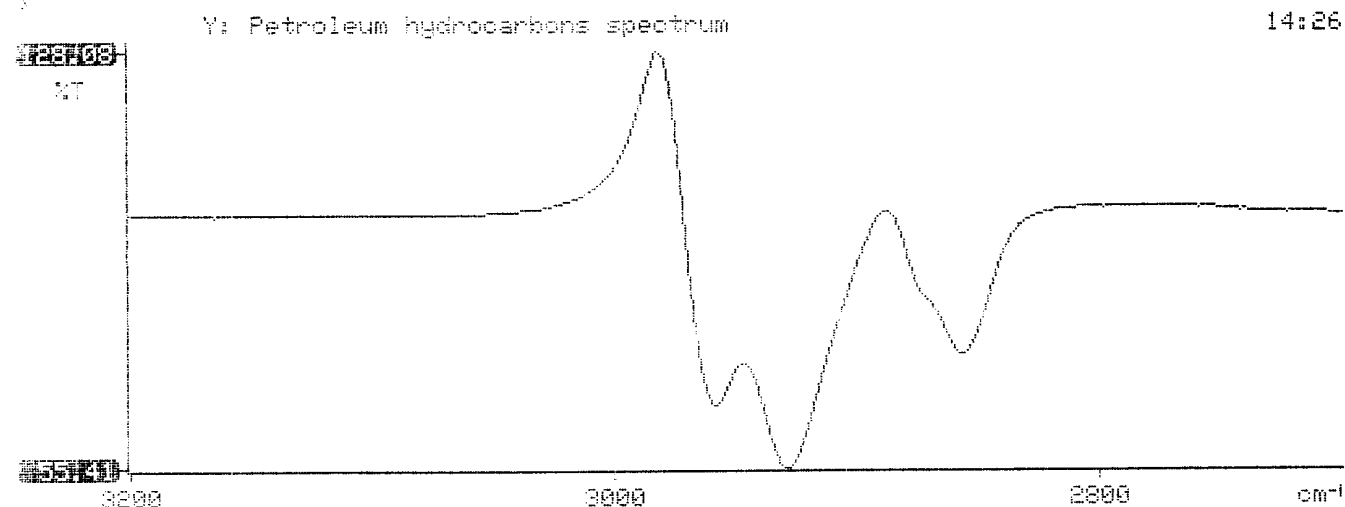
* Sample identification
945350

* Initial mass of sample, g
2.060

* Volume of sample after extraction, ml
28.000

* Petroleum hydrocarbons, ppm
2035.046

* Net absorbance of hydrocarbons (2930 cm⁻¹)
0.256



File : 94535001.D01

MTR 70865 2.14 G

JOHN LAMBDIN

Run : 01

Queue : SOILEXTR Set Number : 1

Type : Sample

Path : C:\CHROM

Collection : 18:09:39 Jun 06 1994 Meth(A): BETX [15:22:58 Jun 06 1994]

Integration: 18:09:39 Jun 06 1994 Meth(A): BETX [15:22:58 Jun 06 1994]

Report : 18:35:48 Jun 06 1994 Meth(A): BETX [15:22:58 Jun 06 1994]

Sample Amt : 1.000000e+0 Dilution: 2.000000e+1

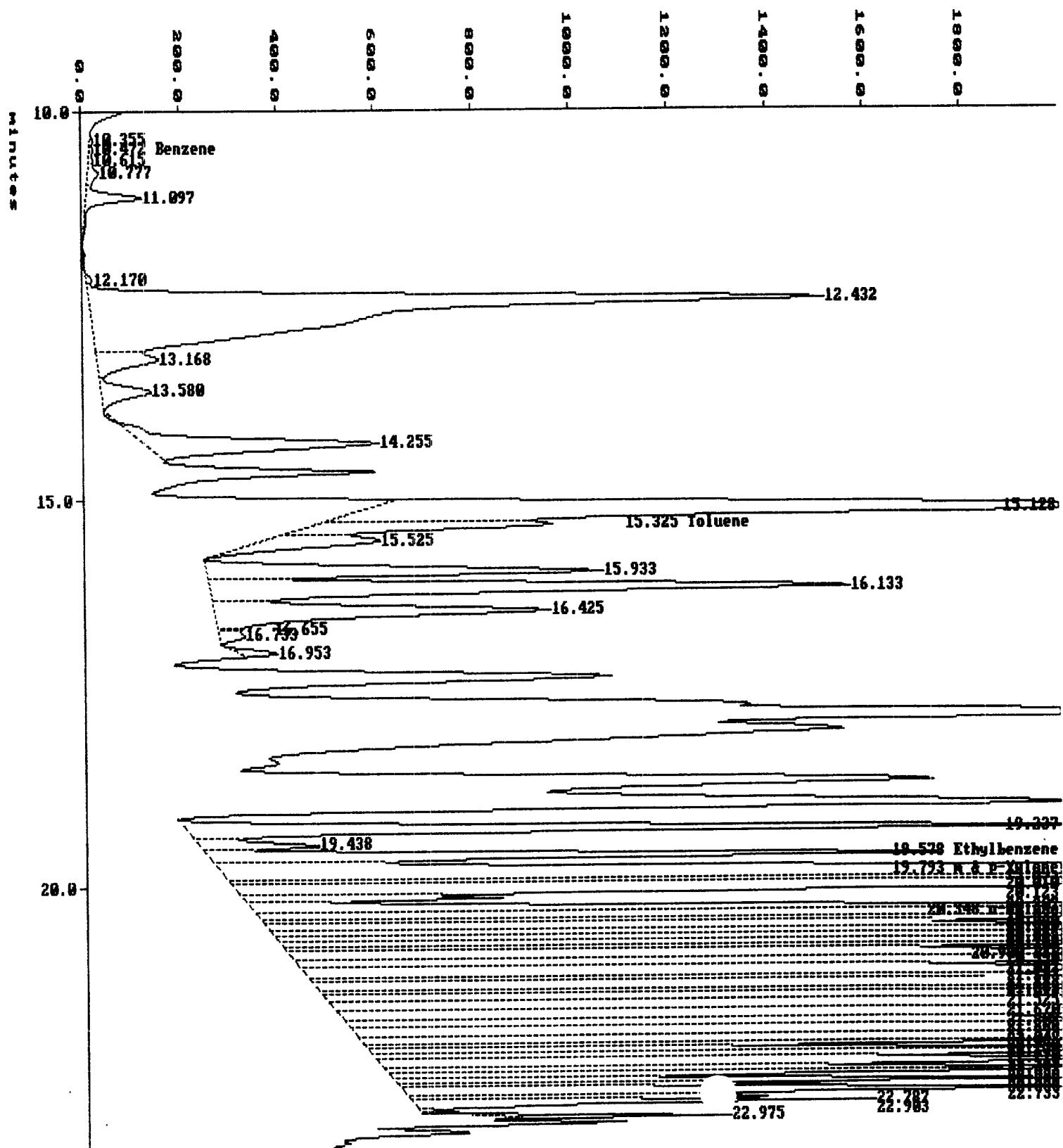
EXTERNAL STANDARD (AREA)

RT	Area	BC	ExpRT	RF	ug/L	Name
10.355	32432	T		0.000000e+0	0.0000	Unknown
10.472	53655	T	10.495	-2.03947e-5	-21.8855	Benzene
10.615	51042	T		0.000000e+0	0.0000	Unknown
10.777	247145	T		0.000000e+0	0.0000	Unknown
11.097	876191	T		0.000000e+0	0.0000	Unknown
12.170	80743	T		0.000000e+0	0.0000	Unknown
12.431	26906710	T		0.000000e+0	0.0000	Unknown
			12.807	1.69506e-4		a,a,a TFT
13.168	1432276	T		0.000000e+0	0.0000	Unknown
13.580	1078208	V		0.000000e+0	0.0000	Unknown
14.255	5033377	V		0.000000e+0	0.0000	Unknown
15.128	17201292	T		0.000000e+0	0.0000	Unknown
15.325	3494772	T	15.403	7.28631e-6	509.2796	Toluene
15.525	2465914	V		0.000000e+0	0.0000	Unknown
15.933	6068336	T		0.000000e+0	0.0000	Unknown
16.133	11041250	T		0.000000e+0	0.0000	Unknown
16.425	6569647	T		0.000000e+0	0.0000	Unknown
16.655	99882	T		0.000000e+0	0.0000	Unknown
16.733	338629	V		0.000000e+0	0.0000	Unknown
16.953	393555			0.000000e+0	0.0000	Unknown
19.236	10728274	T		0.000000e+0	0.0000	Unknown
19.438	1323717	T		0.000000e+0	0.0000	Unknown
19.578	7821150	T	19.588	7.90566e-6	1236.6279	Ethylbenzene
19.793	60165920	T	19.800	8.87304e-6	10677.0986	m & p-Xylene
19.895	12311940	T		0.000000e+0	0.0000	Unknown
20.010	24807008	T		0.000000e+0	0.0000	Unknown
20.123	2106066	T		0.000000e+0	0.0000	Unknown
20.307	20591390	T		0.000000e+0	0.0000	Unknown
20.348	23924896	T	20.348	8.20293e-6	3925.0874	o-Xylene
20.428	7567143	T		0.000000e+0	0.0000	Unknown
20.530	13342544	T		0.000000e+0	0.0000	Unknown
20.588	19289686	T		0.000000e+0	0.0000	Unknown
20.665	30194748	T		0.000000e+0	0.0000	Unknown
20.721	13825166	T		0.000000e+0	0.0000	Unknown
20.783	6302046	T		0.000000e+0	0.0000	Unknown
20.900	18864018	T	20.928	5.41173e-6	2041.7394	BFB
20.990	17431932	T		0.000000e+0	0.0000	Unknown
21.096	22844732	T		0.000000e+0	0.0000	Unknown
21.193	3741199	T		0.000000e+0	0.0000	Unknown
21.283	34511564	T		0.000000e+0	0.0000	Unknown
21.361	30494610	T		0.000000e+0	0.0000	Unknown
21.413	23701436	T		0.000000e+0	0.0000	Unknown
21.525	20157660	T		0.000000e+0	0.0000	Unknown
21.670	40574424	T		0.000000e+0	0.0000	Unknown
21.802	13065700	T		0.000000e+0	0.0000	Unknown
21.861	21115374	T		0.000000e+0	0.0000	Unknown
21.975	14535994	T		0.000000e+0	0.0000	Unknown
22.048	4537620	T		0.000000e+0	0.0000	Unknown
22.130	5476156	T		0.000000e+0	0.0000	Unknown
22.178	11869783	T		0.000000e+0	0.0000	Unknown
22.270	14273441	T		0.000000e+0	0.0000	Unknown

Handwritten signature
6/14/94

22.367	3378333	T	0.00000e+0	0.0000	Unknown
22.432	3456452	T	0.00000e+0	0.0000	Unknown
22.525	4214505	T	0.00000e+0	0.0000	Unknown
22.582	2097594	T	0.00000e+0	0.0000	Unknown
22.638	5978263	T	0.00000e+0	0.0000	Unknown
22.733	1725886	T	0.00000e+0	0.0000	Unknown
22.787	3316538	T	0.00000e+0	0.0000	Unknown
22.903	115912	V	0.00000e+0	0.0000	Unknown
22.975	960570		0.00000e+0	0.0000	Unknown

(94535001.D01) mV



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 28-7 Unit 16 70865

Well Logged By

CM Chance

Personnel On-Site

K Padilla, F. Rivera, J. Johnson

Contractors On-Site

Client Personnel On-Site

Elevation

Borehole Location QB-S3D-T27-R7

GWL Depth

Logged By CM CHANCE

Drilled By K Padilla

Date/Time Started 9/19/95 - 1426

Date/Time Completed 9/19/95 - 1600

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 10'						
5										
10										
15	1	15-17	10"	Gray SANDSTONE, vf-F sand, mod. cemented			0	20	404 1180	1435 hr
20	2	20-21	6"	lt br silty CLAY, v. stiff, non plastic, dry			0	3	27 95	Hard Drilling 1443
25	3	25-26	6"	lt gray/br mottled silty CLAY, v. stiff, non plastic, dry			0	10	144 80	1457
30	4	30-31	2"	Br SANDSTONE, vf-F sand, mod. cemented			0	4	2 1	1510
				TDB 31'						
35										
40										

Comments:

CMC 117 (30-31') sent to lab (BTEX, TPH). BH grouted to surface.
Insufficient volume for a "no headspace" sample.

Geologist Signature

CM Chance



FIELD SERVICES LABORATORY
ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	CML 117	947500
MTR CODE SITE NAME:	70865	San Juan 28-7 Unit #16
SAMPLE DATE TIME (Hrs):	09-19-95	1510
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. ANAL.:	9-20-95	
DATE OF BTEX EXT. ANAL.:	9/20/95	9/22/95
TYPE DESCRIPTION:	V6	Light brown sand and sand stone

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)	18.3	MG/KG			1.98	28
HEADSPACE PID	1	PPM				
PERCENT SOLIDS	95.1	%				

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

The Surrogate Recovery was at 95% for this sample All QA/QC was acceptable.
Narrative:

DF = Dilution Factor Used

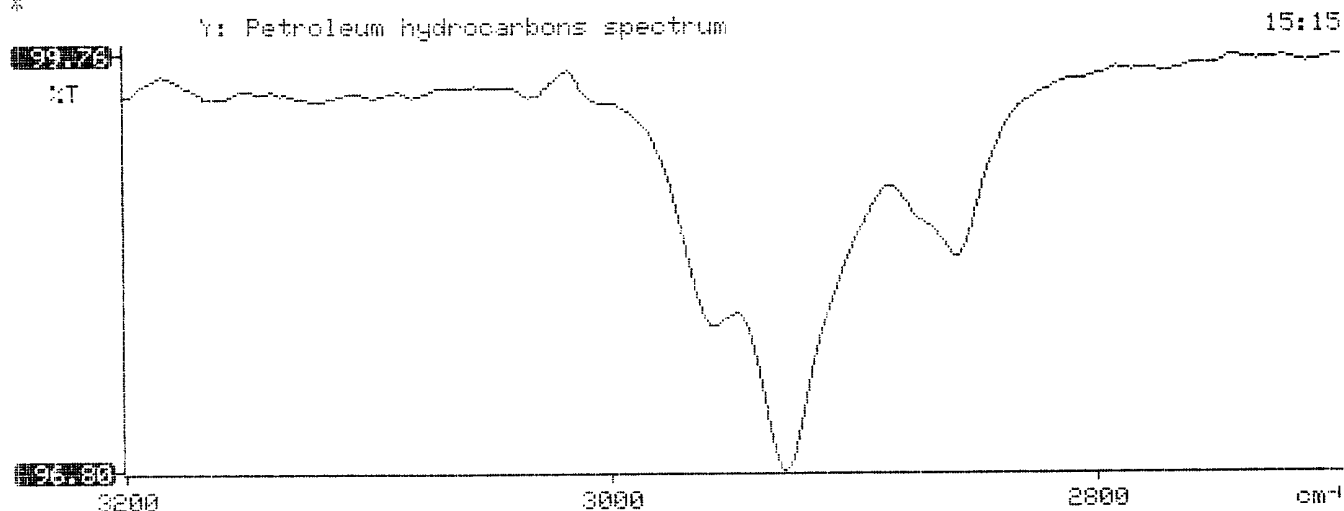
Approved By: JP

Date:

9-26-95

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

* 95/09/20 15:15
 *
 * Sample identification
 947500
 *
 * Initial mass of sample, g
 1.980
 *
 * Volume of sample after extraction, ml
 28.000
 *
 * Petroleum hydrocarbons, ppm
 18.289
 * Net absorbance of hydrocarbons (2930 cm⁻¹)
 0.012
 *
 *
 *



BTEX SOIL SAMPLE WORKSHEET

File	:	947500	Date Printed	:	9/25/95
Soil Mass (g)	:	4.97	Multiplier (L/g)	:	0.00101
Extraction vol. (mL)	:	10	DF (Analytical)	:	200
Shot Volume (uL)	:	50	DF (Report)	:	0.20121

				Det. Limit
Benzene (ug/L)	:	0.00	Benzene (mg/Kg):	0.000 0.503
Toluene (ug/L)	:	0.17	Toluene (mg/Kg):	0.034 0.503
Ethylbenzene (ug/L)	:	0.00	Ethylbenzene (mg/Kg):	0.000 0.503
p & m-xylene (ug/L)	:	0.57	p & m-xylene (mg/Kg):	0.115 1.006
o-xylene (ug/L)	:	0.16	o-xylene (mg/Kg):	0.032 0.503
			Total xylenes (mg/Kg):	0.147 1.509
			Total BTEX (mg/Kg):	0.181

EL PASO NATURAL GAS

EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM000\092295-0.016
 Method : C:\LABQUEST\METHODS\9000.MET
 Sample ID : 947500,4.97G,50U
 Acquired : Sep 22, 1995 19:43:05
 Printed : Sep 22, 1995 20:13:30
 User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	8.140	0	0.0000
a,a,a-TFT	10.393	7917826	90.5041
TOLUENE	12.817	60130	0.1652
ETHYLBENZENE	17.170	0	0.0000
M,P-XYLENES	17.537	228309	0.5691
O-XYLENE	18.710	53444	0.1632
BFB	19.830	51853852	95.1305

