

**ANNUAL
MONITORING
REPORTS**

ANNUAL MONITORING REPORT

LF-59

**LEA COUNTY, NEW MEXICO
NW ¼ SW ¼ SECTION 32, TOWNSHIP 19 SOUTH, RANGE 37 EAST
LINK ENERGY LEAK NUMBER: TNM MONUMENT-10
ETGI PROJECT NUMBER: LI 2063**

PREPARED FOR:

**LINK ENERGY
5805 EAST HIGHWAY 80
MIDLAND, TEXAS 79701**

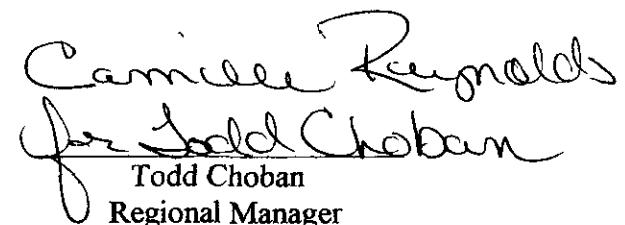
PREPARED BY:

**ENVIRONMENTAL TECHNOLOGY GROUP, INC.
2540 WEST MARLAND
HOBBS, NEW MEXICO 88240**

APRIL 2004



**Robert B Eidson
Geologist / Senior Project Manager**



**Camille Reynolds
for Todd Choban**

**Todd Choban
Regional Manager**

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INTRODUCTION

Environmental Technology Group, Inc., (ETGI) on behalf of Link Energy (Link) has prepared this Annual Monitoring Report in compliance with the New Mexico Oil Conservation Division (NMOCD) letter of May 1998, requiring submittal of an Annual Monitoring Report by April 1 of each year. This report is intended to be viewed as a complete document with figures, attachments, tables, and text. The report presents the results of the single groundwater monitoring event conducted in calendar year 2003 only. The surface lessee restricted access by ETGI to the site during the first three quarterly monitoring events. For reference, the Site Location Map is provided as Figure 1.

Groundwater monitoring was conducted during the fourth quarterly monitoring period in calendar year 2003 due to site access restrictions imposed by the surface lessee. Groundwater monitoring was conducted to assess the levels and extent of dissolved phase and phase separated petroleum hydrocarbon (PSH) constituents. The groundwater monitoring event consisted of measuring static water levels in the monitor wells, checking for the presence of PSH, and purging and sampling of each well exhibiting sufficient recharge. Monitor wells containing a thickness of PSH greater than 0.01 foot were not sampled.

FIELD ACTIVITIES

The site monitor wells were gauged and sampled on December 3, 2003. During the sampling event monitor wells were purged of approximately three well volumes of water or until the wells were dry using a PVC bailer or electrical Grundfos Pump. Groundwater was allowed to recharge and samples were obtained using disposable Teflon samplers. Water samples were collected in clean glass containers provided by the laboratory and placed on ice in the field. Purge water was collected in a polystyrene tank and disposed of by Vista Trucking of Eunice, New Mexico from January through September or Lobo Trucking of Hobbs, New Mexico between October and December 2003 utilizing a licensed disposal facility (NMOCD AO SWD-730).

GROUNDWATER GRADIENT

Locations of the monitor wells and the inferred groundwater gradient, constructed from measurements collected on December 3, 2003 are depicted on Figure 2, the Inferred Groundwater Gradient Map. Cumulative groundwater elevation data is provided as Table 1. Groundwater elevation contours generated from water level measurements acquired during the single monitoring event of calendar year 2003, indicated a general gradient of approximately 0.019 ft./ft. to the southwest as measured between groundwater monitor wells MW-3 and MW-7. The depth to groundwater as measured from the top of the well casing, ranged between 20.06 to 23.54 feet in the shallow alluvial aquifer.

A measurable thickness of PSH was detected in monitor wells MW-1 and MW-4 during this annual reporting period. Thickness of 0.95 foot in monitor well MW-1 and 0.26 foot in monitor well MW-4, were recorded and are shown on Table 1. No PSH was recovered during the reporting period due to site access limitations imposed by the surface lessee. Site access has

been restored and ETGI will be conducting regular product recovery and groundwater monitoring activities during 2004.

LABORATORY RESULTS

Groundwater samples collected during the monitoring event were delivered AnalySys Inc., Austin, Texas for determination of Benzene, Toluene, Ethylbenzene and Xylene (BTEX) constituent concentrations by EPA Method SW846-8260b. A cumulative listing of BTEX constituent concentrations is summarized in Table 2 and a copy of the laboratory report generated during this reporting period is provided as Appendix A. The inferred extent of PSH on-site and quarterly groundwater sampling results for benzene and total BTEX concentrations are depicted on Figure 3, the Groundwater Concentration Map.

Review of the laboratory analytical results generated from analysis of the groundwater samples obtained during the monitoring period indicate that benzene and total BTEX concentrations were below applicable NMOCD regulatory standards in monitor wells not containing PSH (MW-2, MW-3, MW-5, MW-6 and MW-7). Groundwater monitor wells MW-1 and MW-4 contained measurable thicknesses of PSH and were not sampled.

SUMMARY

This report presents the results of monitoring activities for the annual reporting period 2003. A measurable thickness of PSH was detected in monitor wells MW-1 and MW-4 during the monitoring event conducted in the fourth quarter of this reporting period. A thickness of 0.95 foot in monitor well MW-1 and 0.26 foot in monitor well MW-4 were measured in the respective monitor wells. Approximately 51 gallons of PSH have been recovered from this site since project inception. During this reporting period no PSH was recovered from the aforementioned monitor wells due to site access restrictions imposed by the surface lessee.

Groundwater elevation contours generated from water level measurements acquired during the monitoring event, indicated a general gradient of approximately 0.019 ft./ft. to the southwest as measured between groundwater monitor wells MW-3 and MW-7.

Review of the laboratory analytical results generated from analysis of the groundwater samples obtained during the monitoring period indicate that benzene and total BTEX constituent concentrations were below applicable NMOCD regulatory standards in monitor wells not containing PSH (MW-2, MW-3, MW-5, MW-6 and MW-7). Groundwater monitor wells MW-1 and MW-4 contained measurable thicknesses of PSH and were not sampled.

DISTRIBUTION

Copy 1 & 2: William C. Olson and Ed Martin
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Link Energy
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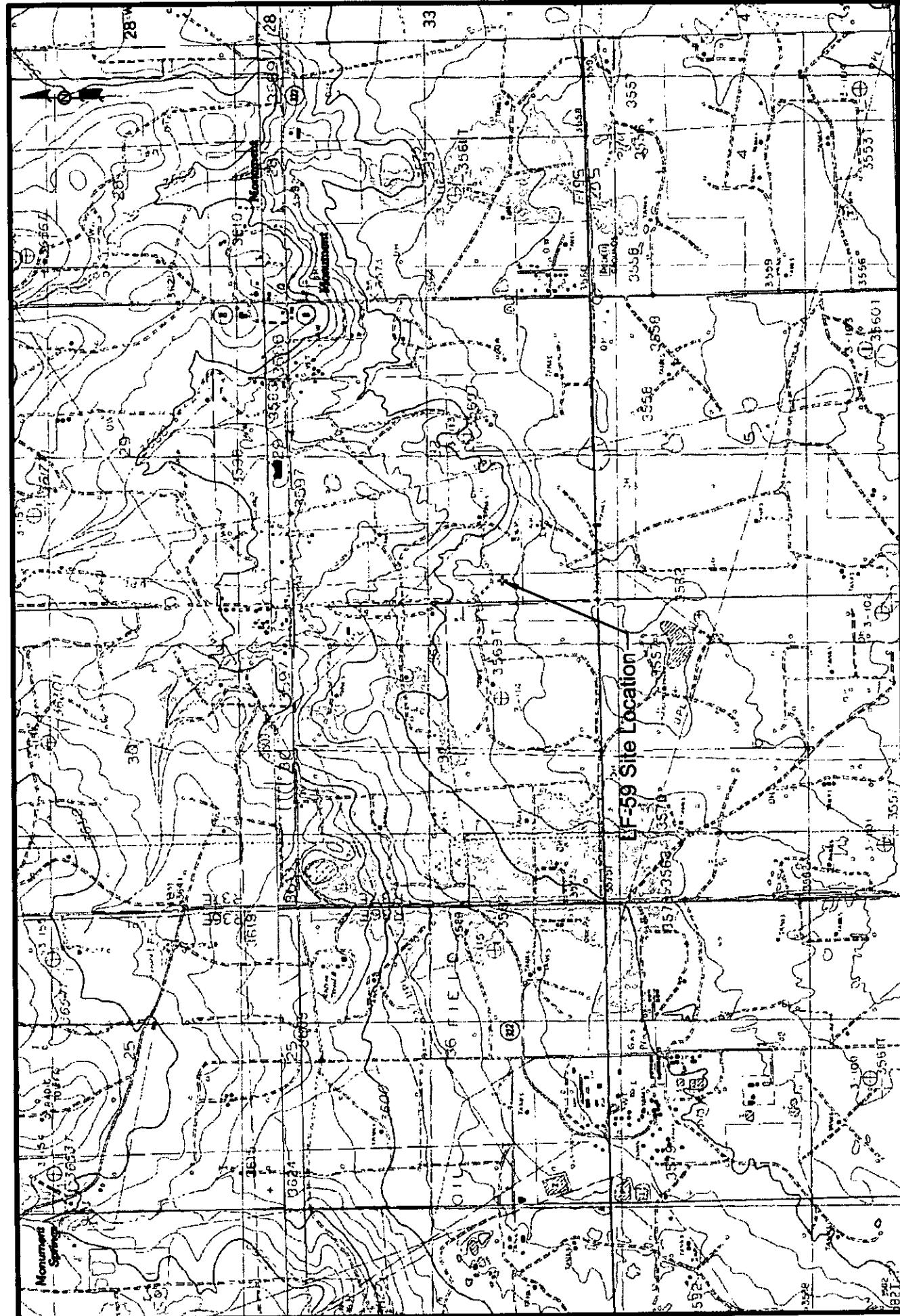
Copy 6: Environmental Technology Group, Inc.
4600 West Wall Street
Midland, Texas 79703

Copy 7: Environmental Technology Group, Inc.
2540 West Marland
Hobbs, New Mexico 88240

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FIGURES



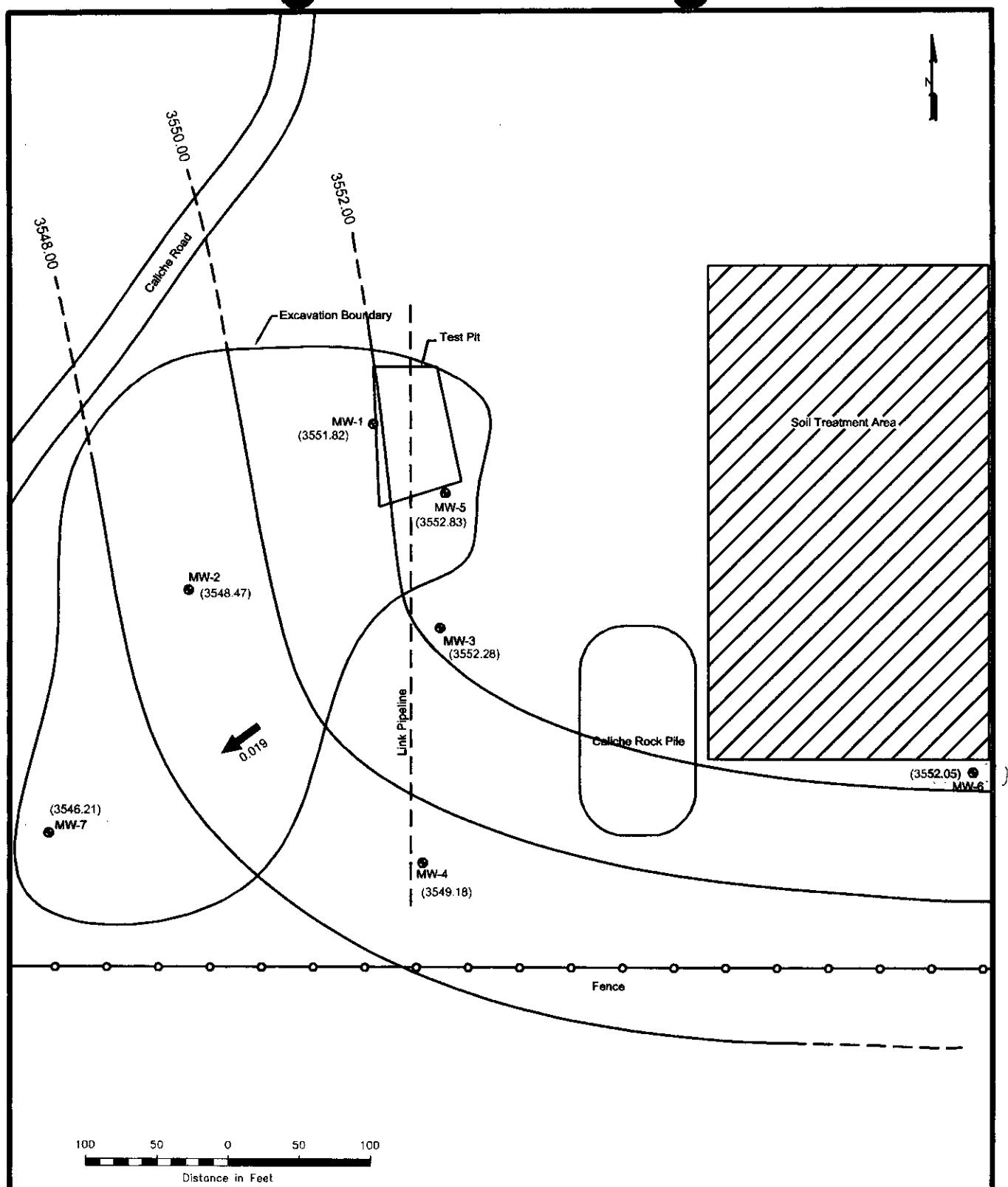
Environmental Technology
Group, INC.

Figure 1
Site Location Map

Link Energy
LF - 59
Monument, NM

Scale: 1:250,000
Prep By: JDJ
Checked By: RE
February 6, 2004
ETGI Project # LI 2012





LEGEND:

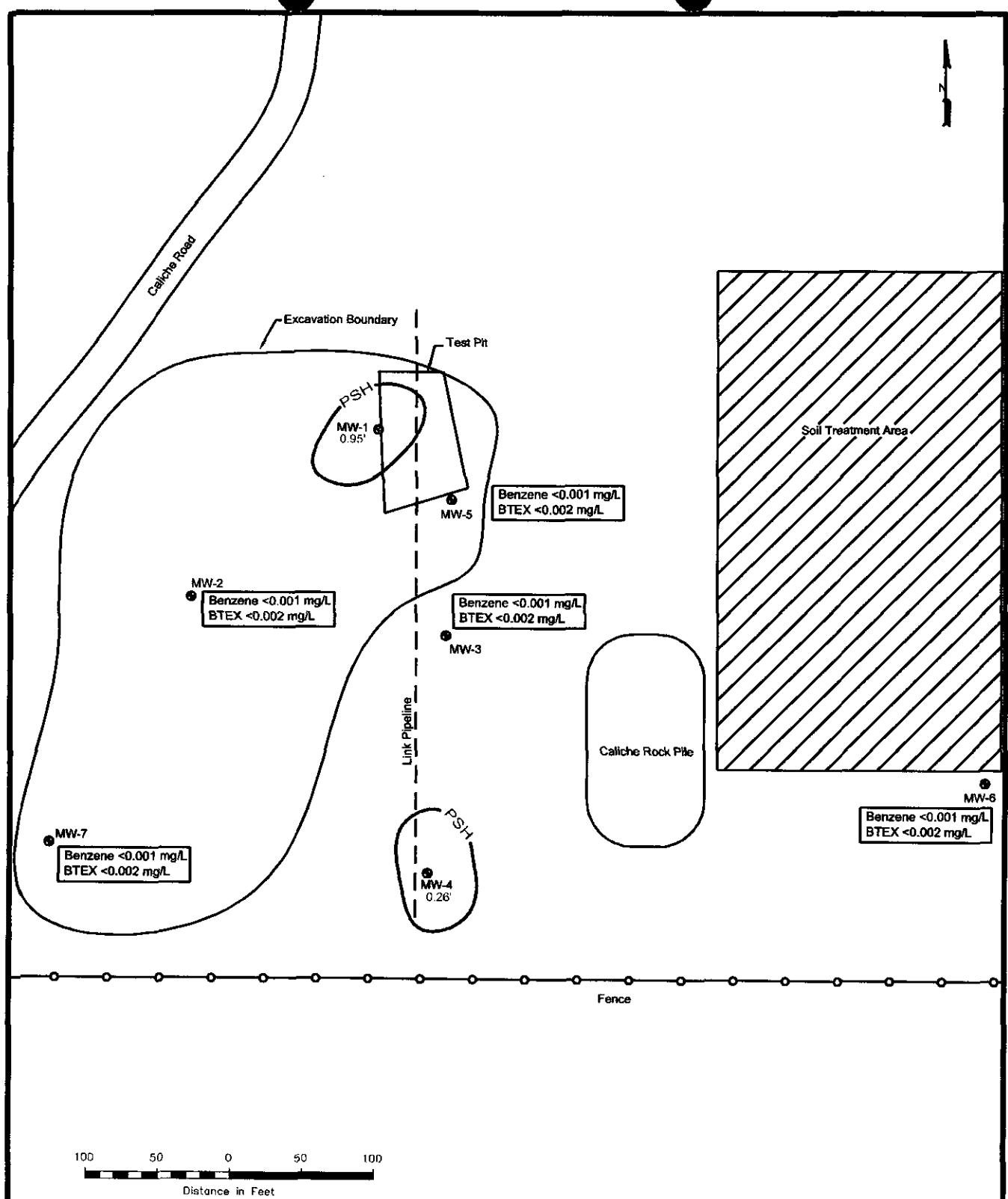
● ETGI Monitoring Well Locations
(3552.15) Groundwater Elevation in Feet

Figure 2
Inferred Groundwater
Gradient Map
(12/03/03) Elevations
Link Energy
LF - 59
Monument, NM



**Environmental Technology
Group, INC.**

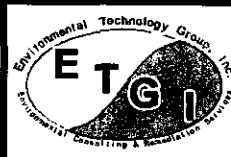
Lat. 32° 36' 50.1"N Long 103° 16' 49.6"W	Scale: 1"=100'
NW1/4 SW1/4 Sec32 T19S R37E	Drawn By: CS Prepared By: RE
January 27, 2004	ETGI Project # LI 2012



Note: PSH Thickness in feet

LEGEND:
● ETGI Monitoring Well Locations
— Inferred PSH Extent

Figure 3
Groundwater Concentration Map (12/03/03)
Link Energy
LF - 59
Monument, NM



Environmental Technology Group, INC.

Lat. 32° 38' 50.1"N Long 103° 16' 49.6"W	Scale: 1"=100'
NW1/4 SW1/4 Sec32 T19S R37E	Drawn By: CS
March 18, 2004	Prepared By: RE
ETGI Project # LI 2012	

TABLES

TABLE 1

GROUNDWATER ELEVATION DATA

LINK ENERGY LIMITED PARTNERSHIP
 LF - 59
 LEA COUNTY, NEW MEXICO
 ETGI PROJECT # LI 2012

SAMPLE LOCATION	SAMPLE DATA	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 1	02/22/00	3,572.21	-	19.94	0.00	3,552.27
	02/23/00	3,572.21	-	19.95	0.00	3,552.26
	04/06/00	3,572.21	-	19.81	0.00	3,552.40
	08/29/00	3,572.21	19.46	19.76	0.30	3,552.71
	12/04/00	3,572.21	19.55	19.61	0.06	3,552.65
	01/23/01	3,572.21	19.57	20.17	0.60	3,552.55
	05/16/01	3,572.21	19.63	20.61	0.98	3,552.43
	08/06/01	3,572.21	19.76	21.09	1.33	3,552.25
	09/27/01	3,572.21	19.91	20.88	0.97	3,552.15
	10/29/01	3,572.21	19.91	20.88	0.97	3,552.15
	03/29/02	3,572.21	19.34	19.37	0.03	3,552.87
	05/20/02	3,572.21	19.81	19.93	0.12	3,552.38
	09/10/02	3,572.21	19.80	20.16	0.36	3,552.36
	10/02/02	3,572.21	19.91	20.45	0.54	3,552.22
	10/03/02	3,572.21	19.89	20.83	0.94	3,552.18
	10/08/02	3,572.21	19.92	20.44	0.52	3,552.21
	10/14/02	3,572.21	19.94	20.52	0.58	3,552.18
	10/22/02	3,572.21	19.99	20.50	0.51	3,552.14
	11/14/02	3,572.21	19.66	19.83	0.17	3,552.52
	12/03/03	3,572.21	20.25	21.20	0.95	3,551.82
MW - 2	02/22/00	3,571.46	-	22.95	0.00	3,548.51
	02/23/00	3,571.46	-	22.95	0.00	3,548.51
	04/06/00	3,571.46	-	22.87	0.00	3,548.59
	08/29/00	3,571.46	-	22.06	0.00	3,549.40
	12/04/00	3,571.46	-	22.48	0.00	3,548.98
	01/23/01	3,571.46	-	22.54	0.00	3,548.92
	05/16/01	3,571.46	-	22.53	0.00	3,548.93
	08/06/01	3,571.46	-	22.74	0.00	3,548.72
	09/27/01	3,571.46	-	22.85	0.00	3,548.61
	10/29/01	3,571.46	-	22.85	0.00	3,548.61
	03/29/02	3,571.46	-	21.86	0.00	3,549.60
	05/20/02	3,571.46	-	22.51	0.00	3,548.95
	09/10/02	3,571.46	-	22.59	0.00	3,548.87
	11/14/02	3,571.46	-	22.12	0.00	3,549.34
	12/03/03	3,571.46	-	22.99	0.00	3,548.47

TABLE 1
GROUNDWATER ELEVATION DATA
LINK ENERGY LIMITED PARTNERSHIP
LF - 59
LEA COUNTY, NEW MEXICO
ETGI PROJECT # LI 2012

SAMPLE LOCATION	SAMPLE DATA	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 3	02/22/00	3,573.46	-	20.95	0.00	3,552.51
	02/23/00	3,573.46	-	20.92	0.00	3,552.54
	04/06/00	3,573.46	-	20.85	0.00	3,552.61
	08/29/00	3,573.46	-	20.53	0.00	3,552.93
	12/04/00	3,573.46	-	20.64	0.00	3,552.82
	01/23/01	3,573.46	-	20.60	0.00	3,552.86
	05/16/01	3,573.46	-	20.69	0.00	3,552.77
	08/06/01	3,573.46	-	20.89	0.00	3,552.57
	09/27/01	3,573.46	-	20.96	0.00	3,552.50
	10/29/01	3,573.46	-	20.96	0.00	3,552.50
	03/29/02	3,573.46	-	20.54	0.00	3,552.92
	05/20/02	3,573.46	-	20.78	0.00	3,552.68
	09/10/02	3,573.46	-	20.82	0.00	3,552.64
MW - 4	11/14/02	3,573.46	-	20.68	0.00	3,552.78
	12/03/03	3,573.46	-	21.18	0.00	3,552.28
	02/22/00	3,570.15	21.94	22.00	0.06	3,548.20
	04/06/00	3,570.15	20.88	20.90	0.02	3,549.27
	08/29/00	3,570.15	20.43	20.54	0.11	3,549.70
	12/04/00	3,570.15	20.54	20.68	0.14	3,549.59
	01/23/01	3,570.15	20.62	20.81	0.19	3,549.50
	05/16/01	3,570.15	20.57	20.89	0.32	3,549.53
	08/06/01	3,570.15	20.83	21.07	0.24	3,549.28
	09/27/01	3,570.15	20.89	21.16	0.27	3,549.22
	10/29/01	3,570.15	20.89	21.16	0.27	3,549.22
	03/29/02	3,570.15	20.62	20.75	0.13	3,549.51
	05/20/02	3,570.15	20.64	20.93	0.29	3,549.47
MW - 5	09/10/02	3,570.15	20.65	20.98	0.33	3,549.45
	10/08/02	3,570.15	20.74	21.14	0.40	3,549.35
	10/14/02	3,570.15	20.76	20.92	0.16	3,549.37
	10/22/02	3,570.15	20.82	20.90	0.08	3,549.32
	11/14/02	3,570.15	20.45	20.50	0.05	3,549.69
	12/03/03	3,570.15	20.93	21.19	0.26	3,549.18
MW - 5	02/22/00	3,562.92	-	19.81	0.00	3,543.11
	02/23/00	3,562.92	-	19.80	0.00	3,543.12

TABLE 1

GROUNDWATER ELEVATION DATA

LINK ENERGY LIMITED PARTNERSHIP
 LF - 59
 LEA COUNTY, NEW MEXICO
 ETGI PROJECT # LI 2012

SAMPLE LOCATION	SAMPLE DATA	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 5	04/06/00	3,572.92	-	19.74	0.00	3,553.18
	08/29/00	3,572.92	-	19.33	0.00	3,553.59
	12/04/00	3,572.92	-	19.46	0.00	3,553.46
	01/23/01	3,572.92	-	19.52	0.00	3,553.40
	05/16/01	3,572.92	-	19.55	0.00	3,553.37
	08/06/01	3,572.92	-	19.80	0.00	3,553.12
	09/27/01	3,572.92	-	19.86	0.00	3,553.06
	10/29/01	3,572.92	-	19.86	0.00	3,553.06
	03/29/02	3,572.92	-	19.19	0.00	3,553.73
	05/20/02	3,572.92	-	19.65	0.00	3,553.27
	09/10/02	3,572.92	-	19.72	0.00	3,553.20
	11/14/02	3,572.92	-	19.55	0.00	3,553.37
MW - 6	12/03/03	3,572.92	-	20.09	0.00	3,552.83
	09/18/01	3,572.11	-	19.90	0.00	3,552.21
	09/27/01	3,572.11	-	19.86	0.00	3,552.25
	10/29/01	3,572.11	-	19.86	0.00	3,552.25
	03/29/02	3,572.11	-	19.62	0.00	3,552.49
	05/20/02	3,572.11	-	19.56	0.00	3,552.55
	09/10/02	3,572.11	-	19.68	0.00	3,552.43
	11/14/02	3,572.11	-	19.52	0.00	3,552.59
MW - 7	12/03/03	3,572.11	-	20.06	0.00	3,552.05
	09/18/01	3,569.75	-	23.35	0.00	3,546.40
	09/27/01	3,569.75	-	23.35	0.00	3,546.40
	10/29/01	3,569.75	-	23.35	0.00	3,546.40
	03/29/02	3,569.75	-	19.82	0.00	3,549.93
	04/16/02	3,569.75	-	22.28	0.00	3,547.47
	05/13/02	3,569.75	-	22.90	0.00	3,546.85
	05/20/02	3,569.75	-	22.95	0.00	3,546.80
	09/10/02	3,569.75	-	23.00	0.00	3,546.75
	11/14/02	3,569.75	-	21.19	0.00	3,548.56
	12/03/03	3,569.75	-	23.54	0.00	3,546.21

Note: "—" denotes no PSH measured during gauging.

Elevations based on the North American Vertical Datum of 1929.

TABLE 2
CONCENTRATIONS OF BTEX IN GROUNDWATER

LINK ENERGY
LF - 59
LEA COUNTY, NEW MEXICO
ETGI PROJECT # LI 2012

All concentrations are reported in mg/L.

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p-XYLENES	o-XYLENE
MW-1	02/23/00	0.120	0.020	0.011	0.073	0.039
	04/06/00	0.355	0.024	0.022	0.274	0.083
MW-2	02/23/00	0.196	0.004	<0.001	0.037	0.003
	04/06/00	0.278	0.005	0.002	0.086	<0.001
	08/29/00	0.272	0.007	0.026	0.055	0.026
	12/04/00	0.046	<0.001	0.006	0.009	0.002
	01/23/01	0.111	<0.001	0.006	0.016	0.001
	05/16/01	0.094	<0.001	<0.001	0.0013	
	08/06/01	0.096	<0.001	0.025	0.013	0.002
	10/29/01	0.049	<0.001	0.024	0.003	0.001
	03/29/02	0.025	0.004	0.023	0.101	0.036
	05/20/02	0.025	<0.001	0.037	0.048	0.030
	09/10/02	0.042	<0.001	0.019	0.018	0.007
	11/14/02	0.032	<0.001	0.018	0.032	0.013
	12/03/03	<0.001	<0.001	<0.001	<0.002	<0.001
MW - 3	02/23/00	<0.001	<0.001	<0.001	<0.001	<0.001
	04/06/00	<0.001	<0.001	<0.001	<0.001	<0.001
	08/29/00	<0.001	<0.001	<0.001	<0.001	<0.001
	12/04/00	<0.001	<0.001	<0.001	<0.001	<0.001
	01/23/01	<0.001	<0.001	<0.001	<0.001	<0.001
	05/16/01	<0.001	<0.001	<0.001	<0.001	
	08/06/01	<0.001	<0.001	<0.001	<0.001	<0.001
	10/29/01	<0.001	<0.001	<0.001	<0.001	<0.001
	03/29/02	<0.001	<0.001	<0.001	<0.001	<0.001
	05/20/02	<0.001	<0.001	<0.001	<0.001	<0.001
	09/10/02	<0.001	<0.001	<0.001	<0.001	<0.001
	11/14/02	<0.001	<0.001	<0.001	<0.001	<0.001
	12/03/03	<0.001	<0.001	<0.001	<0.002	<0.001
MW - 5	02/23/00	<0.001	<0.001	<0.001	<0.001	<0.001
	04/06/00	<0.001	<0.001	<0.001	<0.001	<0.001
	08/29/00	<0.001	<0.001	<0.001	<0.001	<0.001
	12/04/00	<0.001	<0.001	<0.001	<0.001	<0.001
	01/23/01	<0.001	<0.001	<0.001	<0.001	<0.001
	05/16/01	<0.001	<0.001	<0.001	<0.001	
	08/06/01	<0.001	<0.001	<0.001	<0.001	<0.001
	10/29/01	<0.001	<0.001	<0.001	<0.001	<0.001
	03/29/02	<0.001	<0.001	<0.001	<0.001	<0.001
	05/20/02	<0.001	<0.001	<0.001	<0.001	<0.001

TABLE 2
CONCENTRATIONS OF BTEX IN GROUNDWATER

LINK ENERGY
LF - 59
LEA COUNTY, NEW MEXICO
ETGI PROJECT # LI 2012

All concentrations are reported in mg/L.

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p-XYLENES	o-XYLENE
MW - 5	09/10/02	<0.001	<0.001	<0.001	<0.001	<0.001
	11/14/02	<0.001	<0.001	<0.001	<0.001	<0.001
	12/03/03	<0.001	<0.001	<0.001	<0.002	<0.001
MW - 6	09/27/01	<0.001	<0.001	<0.001	<0.001	<0.001
	10/29/01	<0.001	<0.001	<0.001	<0.001	<0.001
	03/29/02	<0.001	<0.001	<0.001	<0.001	<0.001
	05/20/02	<0.001	<0.001	<0.001	<0.001	<0.001
	09/10/02	<0.001	<0.001	<0.001	<0.001	<0.001
	11/14/02	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 7	12/03/03	<0.001	<0.001	<0.001	<0.002	<0.001
	09/27/01	<0.001	<0.001	<0.001	<0.001	<0.001
	10/29/01	<0.001	<0.001	<0.001	<0.001	<0.001
	03/29/02	<0.001	<0.001	<0.001	<0.001	<0.001
	05/20/02	<0.001	<0.001	<0.001	<0.001	<0.001
	09/10/02	0.008	0.006	0.003	0.017	0.007
EB - 1	11/14/02	0.009	0.009	0.005	0.029	0.012
	12/03/03	<0.001	<0.001	<0.001	<0.002	<0.001
	12/04/00	<0.001	<0.001	<0.001	<0.001	<0.001
	01/23/01	<0.001	<0.001	<0.001	<0.001	<0.001
	05/16/01	<0.001	0.002	<0.001	<0.001	
	08/06/01	<0.001	<0.001	<0.001	<0.001	<0.001
	10/29/01	<0.001	<0.001	<0.001	<0.001	<0.001
	03/29/02	<0.001	<0.001	<0.001	<0.001	<0.001
	09/10/02	<0.001	<0.001	<0.001	<0.001	<0.001

Note: m,p and o Xylenes combined when analyzed by Trace Laboratories, Inc. only.

Appendix A

Laboratory Reports

3512 Montopolis Drive, Austin, TX 78744 &
 2209 N. Padre Island Dr., Corpus Christi, TX 78408
 (512) 385-5186 • FAX (512) 385-7411

REPORT OF ANALYSIS

Client:	Environmental Tech Group
Attn:	Robert Eidson
Address:	2540 W. Marland Hobbs NM 88240
Phone:	505 397-4882 FAX: 505 397-4701

Parameter

Parameter	Result	Units	RQL ⁵	Blank	Date	Method 6	Data Qual 7	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---	µg/L	---	<1	12/11/03	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	12/11/03	8260b	1	9.8	79	95.2	107.1
Ethylbenzene	<1	µg/L	1	<1	12/11/03	8260b	---	5.5	105.3	106	113.8
m,p-Xylenes	<2	µg/L	2	<2	12/11/03	8260b	---	5	99.6	101.1	106.3
<i>o</i> -Xylene	<1	µg/L	1	<1	12/11/03	8260b	---	15	102.9	115	120.8
Toluene	<1	µg/L	1	<1	12/11/03	8260b	---	7.7	101.8	101.1	109.5

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Respectfully Submitted,

Richard Elton

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B = Analyte detected in associated method blank(s). S1 = MS and/or PDS recoveries exceed advisory limits. S2 = Post digestion spike (PDS) recovery exceeds advisory limit. S3 = MS and/or PDS recoveries exceed advisory limits. P = Precision higher than advisory limit. M = Matrix interference.

QUALITY ASSURANCE DATA¹

Report# /Lab ID#: 150566	Report Date: 12/15/03
Project ID: EO2012 LF-59	
Sample Name: MW-2	
Sample Matrix: water	
Date Received: 12/09/2003	Time: 15:00
Date Sampled: 12/03/2003	Time: 11:30

Q 7 11 12 13 14 15

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client:	Environmental Tech Group	Project ID:	EO2012 LF-59
Attn:	Robert Edson	Sample Name:	MW-2

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	97.1	80-120	---
Toluene-d8	8260b	100	88-110	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Report#Lab ID#: 150566
Sample Matrix: water

Exceptions Report:

Report #/Lab ID#: 150566	Matrix: water	Attn: Robert Eidson
Client: Environmental Tech Group		
Project ID: EO2012 LF-59		

Sample Name: MW-2

Sample Temperature/Condition $\leq 6^{\circ}\text{C}$

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is $\leq 6^{\circ}\text{C}$. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation

- Sample received in appropriate container(s) and appear to be appropriately preserved.
- Sample received in appropriate container(s). State of sample preservation unknown.
- Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (e.g. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Benzene	J	See J-flag discussion above.

Notes:

7
5

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78403
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Tech Group
Attn: Robert Elton
Address: 2540 W. Maryland
Hobbs
Phone: 505 397-4882 FAX: 505 397-4701

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---	µg/L	---	12/11/03	8260b(5030/5035)	---	---	---	---	---	---
Benzene	<1	µg/L	1	<1	12/11/03	8260b	---	9.8	79	95.2	107.1
Ethylbenzene	<1	µg/L	1	<1	12/11/03	8260b	---	5.5	105.3	106	113.8
m,p-Xylenes	<2	µg/L	2	<2	12/11/03	8260b	---	5	99.6	101.1	106.3
o-Xylene	<1	µg/L	1	<1	12/11/03	8260b	---	15	102.9	115	120.8
Toluene	<1	µg/L	1	<1	12/11/03	8260b	---	7.7	101.8	101.1	109.5

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Respectfully Submitted,

Richard Elton

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL, B = Analyte detected in associated method blank(s). S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P=Precision higher than advisory limit. M =Matrix interference.

Report#1 Lab ID#:150567	Report Date: 12/15/03
Project ID: EO2012 LF-59	
Sample Name: MW-3	
Sample Matrix: water	
Date Received: 12/09/2003	Time: 15:00
Date Sampled: 12/03/2003	Time: 12:00

QUALITY ASSURANCE DATA¹

Environmental Services

Client: Environmental Tech Group
Attn: Robert Eidson

Project ID: EO2012 LR-59
Sample Name: MW-3

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	96.2	80-120	---
Toluene-d8	8260b	104	88-110	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

3512 Montopolis Drive, Austin, TX 78744 &
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(512) 385-5886 • FAX (512) 385-7411

Report#/Lab ID#: 150567
Sample Matrix: water

Q **5**

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

REPORT OF ANALYSIS

Client: Environmental Tech Group
Attn: Robert Eidson
Address: 2540 W. Marland Hobbs NM 88240
Phone: 505 397-4882 **FAX:** 505 397-4701

Report#/ Lab ID#: 150568	Report Date: 12/15/03
Project ID: EO2012 LF-59	
Sample Name: MW-5	
Sample Matrix: water	
Date Received: 12/09/2003	Time: 15:00
Date Sampled: 12/03/2003	Time: 12:30

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		12/11/03	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	12/11/03	8260b	---	9.8	79	95.2	107.1
Ethylbenzene	<1	µg/L	1	<1	12/11/03	8260b	---	5.5	105.3	106	113.8
m,p-Xylenes	<2	µg/L	2	<2	12/11/03	8260b	---	5	99.6	101.1	106.3
o-Xylene	<1	µg/L	1	<1	12/11/03	8260b	---	15	102.9	115	120.8
Toluene	<1	µg/L	1	<1	12/11/03	8260b	---	7.7	101.8	101.1	109.5

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Respectfully Submitted,

Richard Elton

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7 **5**

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client:	Environmental Tech Group	Project ID: EO2012LF-59	Report#/Lab ID#: 150368
Attn:	Robert Edison	Sample Name: MW-5	Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	101	80-120	---
Toluene-d8	8260b	101	88-110	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

01/17/03

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Tech Group
Attn: Robert Eidson
Address: 2540 W. Marland Hobbs
Phone: 505 397-4882 FAX: 505 397-4701

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		12/11/03	8260b(5030/5035)		---	---	---	---	---
Benzene	<1	µg/L	1	<1	12/11/03	8260b		9.8	79	95.2	107.1	
Ethylbenzene	<1	µg/L	1	<1	12/11/03	8260b		5.5	105.3	106	113.8	
m,p-Xylenes	<2	µg/L	2	<2	12/11/03	8260b		5	99.6	101.1	106.3	
o-Xylene	<1	µg/L	1	<1	12/11/03	8260b		15	102.9	115	120.8	
Toluene	<1	µg/L	1	<1	12/11/03	8260b		7.7	101.8	101.1	109.5	

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Respectfully Submitted,



Richard Elton

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75

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client:	Environmental Tech Group	Project ID:	EO2012 LF-59
Attn:	Robert Eidson	Sample Name:	MW-6

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	94.9	80-120	---
Toluene-d8	8260b	101	88-110	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

0 **5**

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Tech Group
Attn: Robert Eidson
Address: 2540 W. Marland Hobbs
Phone: 505 397-4882 FAX: 505 397-4701

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁸
Volatile organics-8260b/BTEX	---	µg/L	--	<1	12/11/03	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	12/11/03	8260b	---	9.8	79	95.2	107.1
Ethylbenzene	<1	µg/L	1	<1	12/11/03	8260b	---	5.5	105.3	106	113.8
m,p-Xylenes	<2	µg/L	2	<2	12/11/03	8260b	1	5	99.6	101.1	106.3
o-Xylene	<1	µg/L	1	<1	12/11/03	8260b	---	15	102.9	115	120.8
Toluene	<1	µg/L	1	<1	12/11/03	8260b	---	7.7	101.8	101.1	109.5

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Respectfully Submitted,

Richard Elton

Report#Lab ID#: 150570 Report Date: 12/15/03
Project ID: EO2012 LF-59
Sample Name: MW-7
Sample Matrix: water
Date Received: 12/09/2003 Time: 15:00
Date Sampled: 12/03/2003 Time: 13:30

QUALITY ASSURANCE DATA¹

	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁸
1. Quality assurance data is for the sample batch which included this sample.	2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements.	3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample.	4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix.	5. Reporting Quantitation Limit (PQL) of the analytical method.	6. Method numbers typically at or above the Practical Quantitation Limit (PQL) of the analytical method.	7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B = Analyte detected in associated method blank(s). S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

7 11/14/03 4:25

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5386 • FAX (512) 385-7411

Client: Environmental Tech Group	Project ID: EO2012LF-59
Attn: Robert Edson	Sample Name: MW-7

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	94.8	80-120	---
Toluene-d8	8260b	100	88-110	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Exceptions Report:

Report #/Lab ID#: 150570	Matrix: water	Attn: Robert Eidson
Client: Environmental Tech Group		
Project ID: EO2012 LF-59		
Sample Name: MW-7		

Sample Temperature/Condition $\leq 6^{\circ}\text{C}$

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is $\leq 6^{\circ}\text{C}$. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation

- Sample received in appropriate container(s) and appear to be appropriately preserved.
- Sample received in appropriate container(s). State of sample preservation unknown.
- Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (e.g. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
m,p-Xylenes	J	See J-flag discussion above.

Notes:

Site Name: LF-59

Remediation Plan: 1R - 103

Company: EOTT

Contractor: ETGI

Date Inspected: September 24, 2003 by Ed Martin, Larry Johnson and Paul Sheeley

This site is on state land on which Red Byrd has a grazing lease. Red Byrd has illegally denied access to this site. ETGI will give OCD the exact legal description of the site so that OCD can communicate this to the SLO so that access to the site can be granted.

Groundwater at 20' - 23'. Bob Eidson will provide the legals and Ed Martin will contact SLO.

ANNUAL MONITORING REPORT

**EOTT ENERGY, LLC
LF-59 SITE
LEA COUNTY, NEW MEXICO
NW ¼ SW ¼ SECTION 32, TOWNSHIP 19 SOUTH, RANGE 37 EAST**

PREPARED FOR:

**EOTT ENERGY, LLC
5805 EAST HIGHWAY 80
MIDLAND, TEXAS 79701**

PREPARED BY:

**ENVIRONMENTAL TECHNOLOGY GROUP, INC.
4600 WEST WALL STREET
MIDLAND, TEXAS 79704**

APRIL 2003

Robert B Eidson
Geologist / Senior Project Manager

Chance I. Johnson
New Mexico Regional Manager

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INTRODUCTION

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LABORATORY RESULTS

SUMMARY

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Figure 3 – NMOCD Site Map

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Table 1 – Groundwater Elevations

Table 2 – Groundwater Chemistry

APPENDICES

Appendix A ~ Laboratory Reports

INTRODUCTION

Environmental Technology Group, Inc., on behalf of EOTT Energy, LLC (EOTT) prepared this Annual Monitoring Report in compliance with the New Mexico Oil Conservation Division (NMOCD) letter of May 1998, requiring submittal of an Annual Monitoring Report by April 1 of each year. The report presents the results of the quarterly groundwater monitoring events only. For reference, the Site Location Map is provided as Figure 1.

Groundwater monitoring was conducted during four quarterly events in calendar year 2002 to assess the levels and extent of dissolved phase and phase separated petroleum hydrocarbon (PSH) constituents. The groundwater monitoring events consisted of measuring static water levels in the monitor wells, checking for the presence of PSH, and purging and sampling of each well exhibiting sufficient recharge. Monitor wells containing measurable levels of PSH were not sampled.

FIELD ACTIVITIES

The site monitor wells were gauged and sampled on March 29, May 20, September 10, and November 14, 2002. During each sampling event, the monitor wells, designated to be sampled, were purged of approximately three well volumes of water or until the wells were dry using a PVC bailer or electrical Grundfos Pump. Groundwater was allowed to recharge and samples were obtained using disposable Teflon samplers. Water samples were collected in clean glass containers provided by the laboratory and placed on ice in the field. Purge water was collected in a polystyrene tank and disposed of by Pate Trucking, Hobbs, New Mexico or Vista Trucking of Eunice, New Mexico utilizing a licensed disposal facility (NMOCD AO SWD-730).

GROUNDWATER GRADIENT

Locations of the monitor wells and the inferred groundwater gradient, as measured on November 14, 2002 are depicted on Figures 2 and 3, the Inferred Groundwater Gradient Map and the NMOCD Site Map. The groundwater elevation data is provided as Table 1. Groundwater elevation contours, generated from the final quarterly event of calendar year 2002 water level measurements, indicated a general gradient of approximately 0.014 ft/ft to the southwest as measured between groundwater monitor wells MW-3 and MW-7. The depth to groundwater, as measured from the top of the well casing, ranged between 19.19 to 23.00 feet in the shallow alluvial aquifer.

A measurable thickness of PSH was detected in monitor wells MW-1 and MW-4 during this annual reporting period. Maximum thickness of 0.94 foot in monitor well MW-1 and 0.40 foot in monitor well MW-4, were recorded and are shown on Table 1.

LABORATORY RESULTS

Groundwater samples obtained during the sampling events were delivered AnalySys Inc., Austin, Texas for determination of Benzene, Toluene, Ethylbenzene and Xylene (BTEX) constituent concentrations by EPA Method SW846-8260b. Cumulative groundwater chemistry data is provided as Table 2 and copies of the Laboratory Reports are provided as Appendix A.

Laboratory results obtained from analysis of the groundwater samples collected from monitor wells MW-3, MW-5, MW-6 and MW-7 during this annual reporting period indicate that benzene and BTEX concentrations remain below regulatory standards. Laboratory results obtained from analysis of the groundwater samples collected from monitor well MW-2 during this annual reporting period indicate that the benzene concentration remained above the regulatory standard during this reporting period while total the BTEX concentration was below the regulatory standard.

SUMMARY

This report presents the results of monitoring activities for the annual reporting period of calendar year 2002. A measurable thickness of PSH was detected in monitor wells MW-1 and MW-4 during each of the quarterly events during the reporting period. Maximum thicknesses of 0.94 foot in monitor well MW-1 and 0.40 foot in monitor well MW-4 were measured in the respective monitor wells. Approximately 4 gallons of PSH was manually recovered during this reporting period. Recovered PSH was reintroduced into the EOTT transportation system at the Lea Station Facility, Monument, New Mexico.

Groundwater elevation contours, generated from the final quarterly event of calendar year 2002 water level measurements, indicated a general gradient of approximately 0.014 ft/ft to the southwest as measured between groundwater monitor wells MW-3 and MW-7.

Laboratory results obtained from analysis of the groundwater samples collected from monitor wells MW-3, MW-5, MW-6 and MW-7, during this annual reporting period, indicate that benzene and BTEX concentrations remain below the regulatory standards. Laboratory results obtained from analysis of the groundwater samples collected from monitor well MW-2 during this annual reporting period indicate that the benzene constituent concentration remained above the regulatory standard during this reporting period while total the BTEX concentration was below the regulatory standard.

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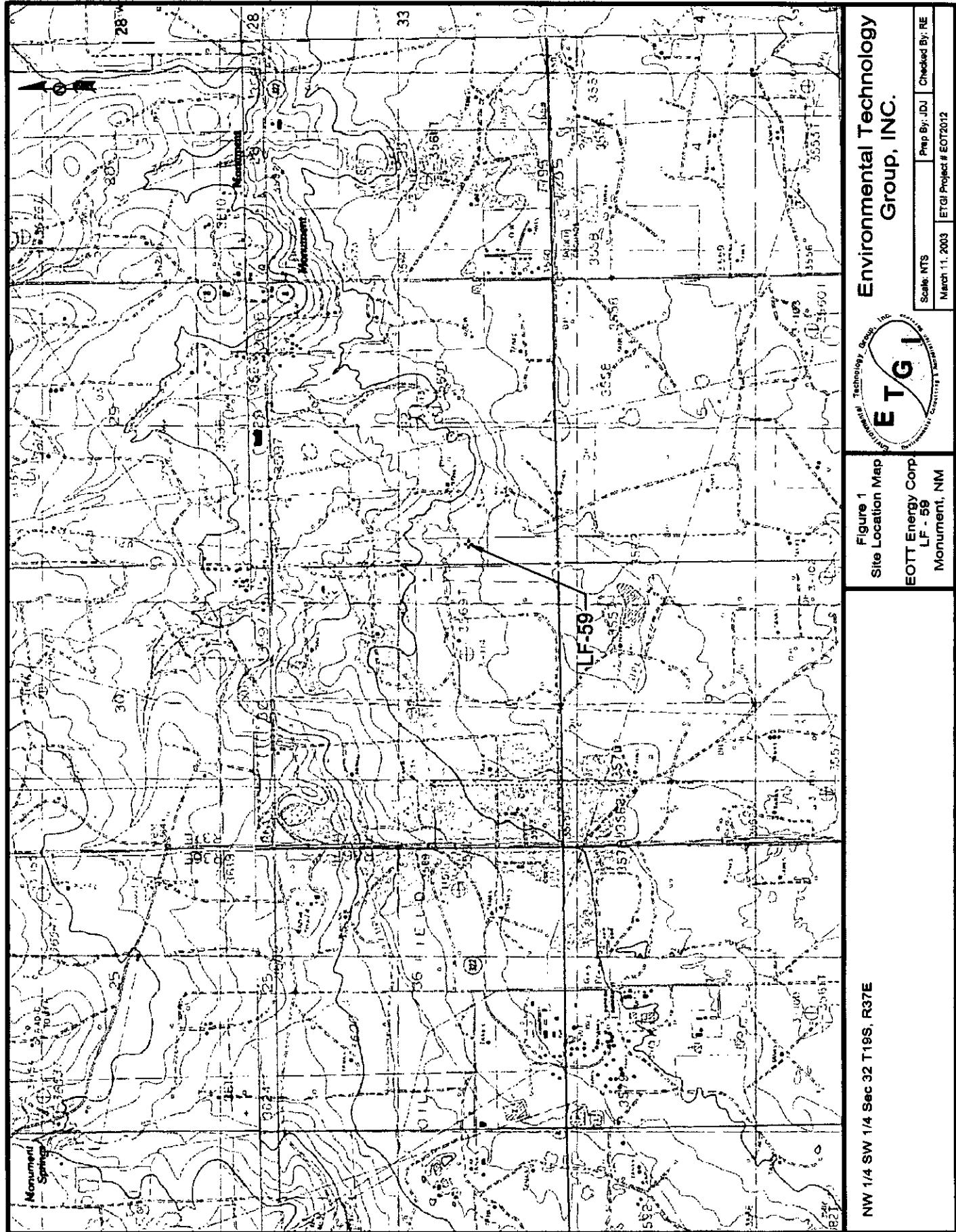
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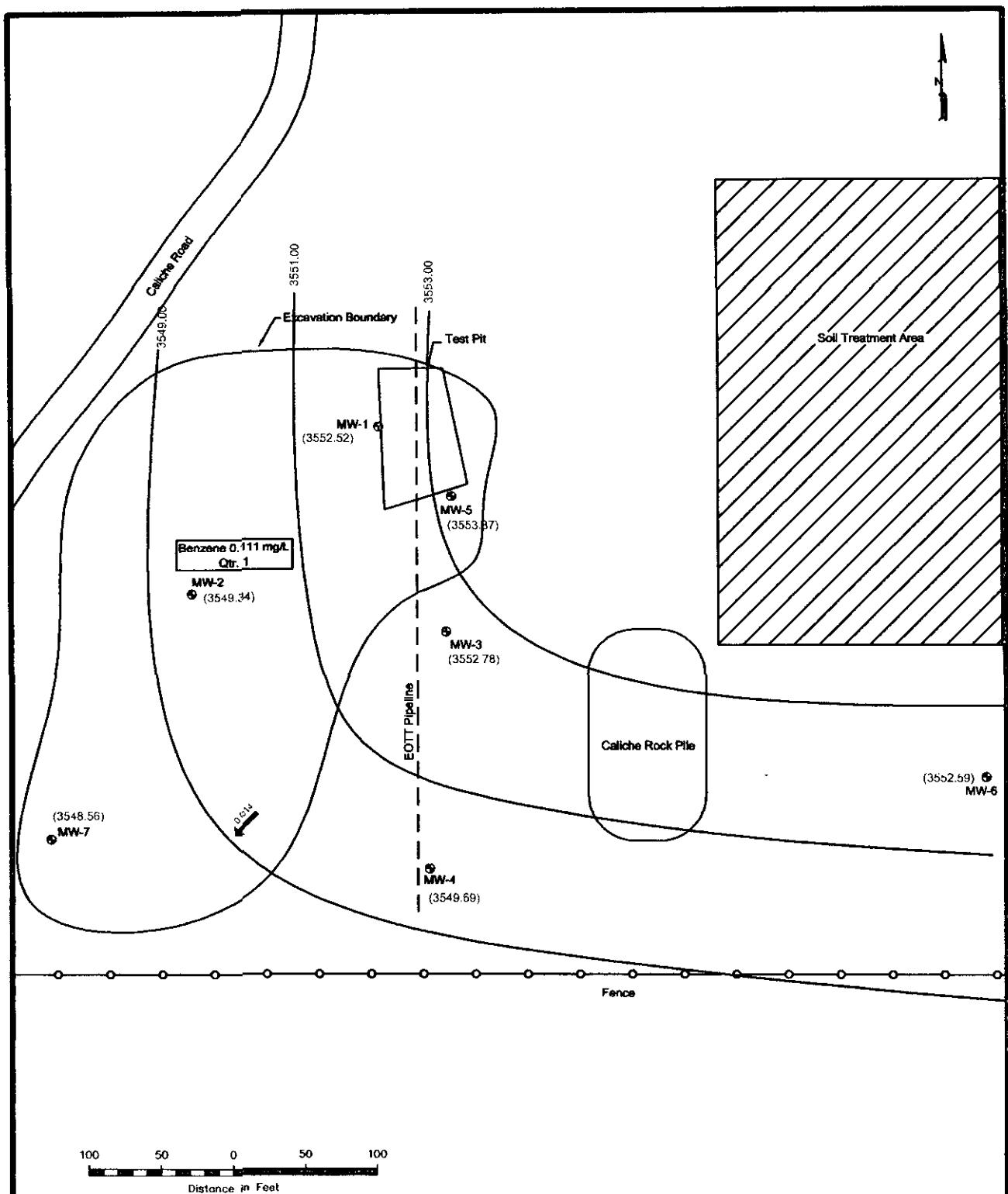
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Copy 9: Environmental Technology Group, Inc.
2540 West Marland
Hobbs, New Mexico 88240

Copy Number: _____





NW 1/4 SW 1/4 S32, T19S, R37E

LEGEND:

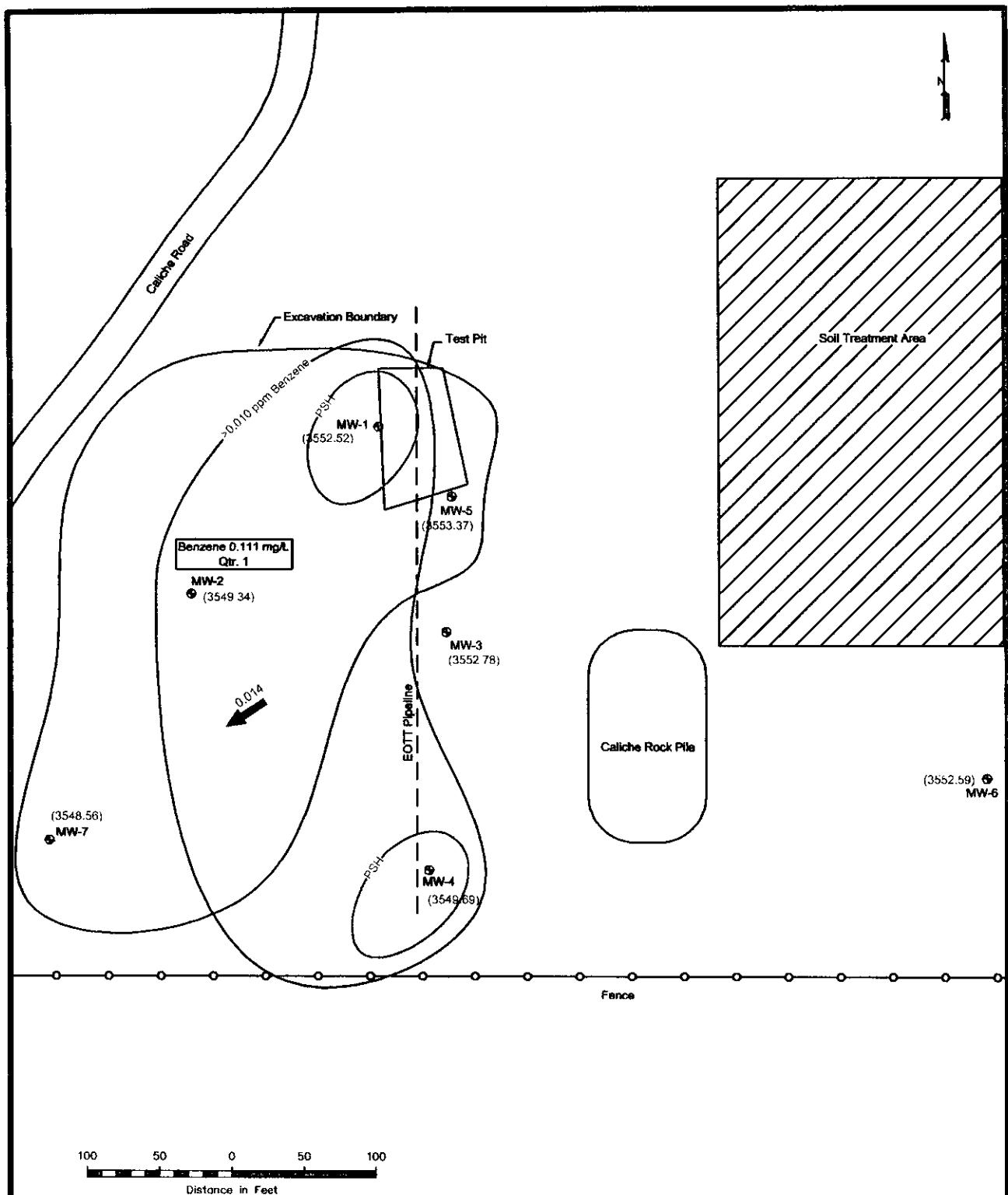
- ⊕ ETGI Monitoring Well Locations
- (3552.15) Groundwater Elevation in Feet
- ← Groundwater Direction + Magnitude

**Figure 2
Inferred Groundwater
Gradient Map
11/14/02**
**EOTT Energy Corp.
LF - 59
Monument, NM**



**Environmental Technology
Group, INC.**

Lat. 32° 36' 50.1"N Long 103° 16' 49.6"W	Scale: 1"=100'
NW 1/4 SW 1/4 Sec32 T19S R37E	Drawn By: JDJ Prepared By: RE
March 12, 2003	ETGI Project # EOT2012



NW1/4 SW1/4 Sec32 T18S R37E

LEGEND:

⊕ ETGI Monitoring Well Locations

(3552.59) Groundwater Elevation in Feet

↖ Groundwater Direction and Magnitude

Figure 3
NMOCD Site Map
11/14/02 Elevations

EOTT Energy Corp.
LF - 59
Monument, NM



Environmental Technology Group, INC.

Lat. 32° 36' 50.1"N Long 103° 16' 49.6"W Scale: 1"=100'

Drawn By: JDJ Prepared By: RE

March 10, 2003 ETGI Project # EO2012

TABLE 1
GROUNDWATER ELEVATION
EOTT ENERGY, LLC
LF - 59
LEA COUNTY, NEW MEXICO
ETGI PROJECT # EO 2012

SAMPLE LOCATION	SAMPLE DATA	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 1	02/22/00	3,572.21	-	19.94	0.00	3,552.27
	02/23/00	3,572.21	-	19.95	0.00	3,552.26
	04/06/00	3,572.21	-	19.81	0.00	3,552.40
	08/29/00	3,572.21	19.46	19.76	0.30	3,552.71
	12/04/00	3,572.21	19.55	19.61	0.06	3,552.65
	01/23/01	3,572.21	19.57	20.17	0.60	3,552.55
	05/16/01	3,572.21	19.63	20.61	0.98	3,552.43
	08/06/01	3,572.21	19.76	21.09	1.33	3,552.25
	09/27/01	3,572.21	19.91	20.88	0.97	3,552.15
	10/29/01	3,572.21	19.91	20.88	0.97	3,552.15
	03/29/02	3,572.21	19.34	19.37	0.03	3,552.87
	05/20/02	3,572.21	19.81	19.93	0.12	3,552.38
	09/10/02	3,572.21	19.80	20.16	0.36	3,552.36
	10/02/02	3,572.21	19.91	20.45	0.54	3,552.22
	10/03/02	3,572.21	19.89	20.83	0.94	3,552.18
	10/08/02	3,572.21	19.92	20.44	0.52	3,552.21
	10/14/02	3,572.21	19.94	20.52	0.58	3,552.18
	10/22/02	3,572.21	19.99	20.50	0.51	3,552.14
	11/14/02	3,572.21	19.66	19.83	0.17	3,552.52
MW - 2	02/22/00	3,571.46	-	22.95	0.00	3,548.51
	02/23/00	3,571.46	-	22.95	0.00	3,548.51
	04/06/00	3,571.46	-	22.87	0.00	3,548.59
	08/29/00	3,571.46	-	22.06	0.00	3,549.40
	12/04/00	3,571.46	-	22.48	0.00	3,548.98
	01/23/01	3,571.46	-	22.54	0.00	3,548.92
	05/16/01	3,571.46	-	22.53	0.00	3,548.93
	08/06/01	3,571.46	-	22.74	0.00	3,548.72
	09/27/01	3,571.46	-	22.85	0.00	3,548.61
	10/29/01	3,571.46	-	22.85	0.00	3,548.61
	03/29/02	3,571.46	-	21.86	0.00	3,549.60
	05/20/02	3,571.46	-	22.51	0.00	3,548.95
	09/10/02	3,571.46	-	22.59	0.00	3,548.87
	11/14/02	3,571.46	-	22.12	0.00	3,549.34

TABLE 1
GROUNDWATER ELEVATION
EOTT ENERGY, LLC
LF - 59
LEA COUNTY, NEW MEXICO
ETGI PROJECT # EO 2012

SAMPLE LOCATION	SAMPLE DATA	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 3	02/22/00	3,573.46	-	20.95	0.00	3,552.51
	02/23/00	3,573.46	-	20.92	0.00	3,552.54
	04/06/00	3,573.46	-	20.85	0.00	3,552.61
	08/29/00	3,573.46	-	20.53	0.00	3,552.93
	12/04/00	3,573.46	-	20.64	0.00	3,552.82
	01/23/01	3,573.46	-	20.60	0.00	3,552.86
	05/16/01	3,573.46	-	20.69	0.00	3,552.77
	08/06/01	3,573.46	-	20.89	0.00	3,552.57
	09/27/01	3,573.46	-	20.96	0.00	3,552.50
	10/29/01	3,573.46	-	20.96	0.00	3,552.50
	03/29/02	3,573.46	-	20.54	0.00	3,552.92
	05/20/02	3,573.46	-	20.78	0.00	3,552.68
	09/10/02	3,573.46	-	20.82	0.00	3,552.64
	11/14/02	3,573.46	-	20.68	0.00	3,552.78
MW - 4	02/22/00	3,570.15	21.94	22.00	0.06	3,548.20
	04/06/00	3,570.15	20.88	20.90	0.02	3,549.27
	08/29/00	3,570.15	20.43	20.54	0.11	3,549.70
	12/04/00	3,570.15	20.54	20.68	0.14	3,549.59
	01/23/01	3,570.15	20.62	20.81	0.19	3,549.50
	05/16/01	3,570.15	20.57	20.89	0.32	3,549.53
	08/06/01	3,570.15	20.83	21.07	0.24	3,549.28
	09/27/01	3,570.15	20.89	21.16	0.27	3,549.22
	10/29/01	3,570.15	20.89	21.16	0.27	3,549.22
	03/29/02	3,570.15	20.62	20.75	0.13	3,549.51
	05/20/02	3,570.15	20.64	20.93	0.29	3,549.47
	09/10/02	3,570.15	20.65	20.98	0.33	3,549.45
	10/08/02	3,570.15	20.74	21.14	0.40	3,549.35
	10/14/02	3,570.15	20.76	20.92	0.16	3,549.37
	10/22/02	3,570.15	20.82	20.90	0.08	3,549.32
	11/14/02	3,570.15	20.45	20.50	0.05	3,549.69

TABLE 1
GROUNDWATER ELEVATION
EOTT ENERGY, LLC
LF - 59
LEA COUNTY, NEW MEXICO
ETGI PROJECT # EO 2012

SAMPLE LOCATION	SAMPLE DATA	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 5	02/22/00	3,562.92	-	19.81	0.00	3,543.11
	02/23/00	3,562.92	-	19.80	0.00	3,543.12
	04/06/00	3,572.92	-	19.74	0.00	3,553.18
	08/29/00	3,572.92	-	19.33	0.00	3,553.59
	12/04/00	3,572.92	-	19.46	0.00	3,553.46
	01/23/01	3,572.92	-	19.52	0.00	3,553.40
	05/16/01	3,572.92	-	19.55	0.00	3,553.37
	08/06/01	3,572.92	-	19.80	0.00	3,553.12
	09/27/01	3,572.92	-	19.86	0.00	3,553.06
	10/29/01	3,572.92	-	19.86	0.00	3,553.06
	03/29/02	3,572.92	-	19.19	0.00	3,553.73
	05/20/02	3,572.92	-	19.65	0.00	3,553.27
	09/10/02	3,572.92	-	19.72	0.00	3,553.20
	11/14/02	3,572.92	-	19.55	0.00	3,553.37
MW - 6	09/18/01	3,572.11	-	19.90	0.00	3,552.21
	09/27/01	3,572.11	-	19.86	0.00	3,552.25
	10/29/01	3,572.11	-	19.86	0.00	3,552.25
	03/29/02	3,572.11	-	19.62	0.00	3,552.49
	05/20/02	3,572.11	-	19.56	0.00	3,552.55
	09/10/02	3,572.11	-	19.68	0.00	3,552.43
	11/14/02	3,572.11	-	19.52	0.00	3,552.59
MW - 7	09/18/01	3,569.75	-	23.35	0.00	3,546.40
	09/27/01	3,569.75	-	23.35	0.00	3,546.40
	10/29/01	3,569.75	-	23.35	0.00	3,546.40
	03/29/02	3,569.75	-	19.82	0.00	3,549.93
	04/16/02	3,569.75	-	22.28	0.00	3,547.47
	05/13/02	3,569.75	-	22.90	0.00	3,546.85
	05/20/02	3,569.75	-	22.95	0.00	3,546.80
	09/10/02	3,569.75	-	23.00	0.00	3,546.75
	11/14/02	3,569.75	-	21.19	0.00	3,548.56

Note: "-" denotes no PSH measured during gauging.

TABLE 2
GROUNDWATER CHEMISTRY

EOTT ENERGY, LLC
LF - 59
LEA COUNTY, NEW MEXICO
ETGI PROJECT # EO 2012

All concentrations are in mg/L

SAMPLE LOCATION	SAMPLE DATE	Method: 8260b			
		BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES
MW-1	02/23/00	0.120	0.020	0.011	0.112
	04/06/00	0.355	0.024	0.022	0.357
MW-2	02/23/00	0.196	0.004	<0.001	0.040
	04/06/00	0.278	0.005	0.002	0.086
MW-2	08/29/00	0.272	0.007	0.026	0.081
	12/04/00	0.046	<0.001	0.006	0.011
MW-2	01/28/01	0.111	<0.001	0.006	0.017
	05/16/01	0.094	<0.001	<0.001	0.001
MW-2	08/06/01	0.096	<0.001	0.025	0.015
	10/29/01	0.049	<0.001	0.024	0.004
MW-2	03/29/02	0.025	0.004	0.023	0.137
	05/20/02	0.025	<0.001	0.037	0.078
MW-2	09/10/02	0.042	<0.001	0.019	0.037
	11/14/02	0.032	<0.001	0.018	0.044
MW - 3	02/23/00	<0.001	<0.001	<0.001	<0.001
	04/06/00	<0.001	<0.001	<0.001	<0.001
MW - 3	08/29/00	<0.001	<0.001	<0.001	<0.001
	12/04/00	<0.001	<0.001	<0.001	<0.001
MW - 3	01/28/01	<0.001	<0.001	<0.001	<0.001
	05/16/01	<0.001	<0.001	<0.001	<0.001
MW - 3	08/06/01	<0.001	<0.001	<0.001	<0.001
	10/29/01	<0.001	<0.001	<0.001	<0.001
MW - 3	03/29/02	<0.001	<0.001	<0.001	<0.001
	05/20/02	<0.001	<0.001	<0.001	<0.001
MW - 3	09/10/02	<0.001	<0.001	<0.001	<0.001
	11/14/02	<0.001	<0.001	<0.001	<0.001
MW - 5	02/23/00	<0.001	<0.001	<0.001	<0.001
	04/06/00	<0.001	<0.001	<0.001	<0.001
MW - 5	08/29/00	<0.001	<0.001	<0.001	<0.001
	12/04/00	<0.001	<0.001	<0.001	<0.001
MW - 5	01/28/01	<0.001	<0.001	<0.001	<0.001
	05/16/01	<0.001	<0.001	<0.001	<0.001
MW - 5	08/06/01	<0.001	<0.001	<0.001	<0.001
	10/29/01	<0.001	<0.001	<0.001	<0.001
MW - 5	03/29/02	<0.001	<0.001	<0.001	<0.001
	05/20/02	<0.001	<0.001	<0.001	<0.001
MW - 5	09/10/02	<0.001	<0.001	<0.001	<0.001
	11/14/02	<0.001	<0.001	<0.001	<0.001

TABLE 2
GROUNDWATER CHEMISTRY

EOTT ENERGY, LLC
LF - 59
LEA COUNTY, NEW MEXICO
ETGI PROJECT # EO 2012

All concentrations are in mg/L

SAMPLE LOCATION	SAMPLE DATE	Method: 8260b			
		BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES
MW - 6	09/27/01	<0.001	<0.001	<0.001	<0.001
	10/29/01	<0.001	<0.001	<0.001	<0.001
	03/29/02	<0.001	<0.001	<0.001	<0.001
	05/20/02	<0.001	<0.001	<0.001	<0.001
	09/10/02	<0.001	<0.001	<0.001	<0.001
	11/14/02	<0.001	<0.001	<0.001	<0.001
MW - 7	10/29/01	<0.001	<0.001	<0.001	<0.001
	03/29/02	<0.001	<0.001	<0.001	<0.001
	05/20/02	<0.001	<0.001	<0.001	<0.001
	09/10/02	0.008	0.006	0.003	0.024
	11/14/02	0.009	0.009	0.005	0.041
EB - 1	12/04/00	<0.001	<0.001	<0.001	<0.001
	01/28/01	<0.001	<0.001	<0.001	<0.001
	05/16/01	<0.001	0.002	<0.001	<0.001
	08/06/01	<0.001	<0.001	<0.001	<0.001
	10/29/01	<0.001	<0.001	<0.001	<0.001
	03/29/02	<0.001	<0.001	<0.001	<0.001
	09/10/02	<0.001	<0.001	<0.001	<0.001

LF-59 ETGI Project # EO2012

- Leak occurred: 11/97;
- Release amount: unknown;
- Approximately 9,900 cubic yards of soil and caliche has been excavated, shredded, blended and nutrients added; Approximately 6,900 cubic yards was applied to the on-site land farm area and is scheduled to be land farmed on-site. Approx. 3,000 cubic yards of material excavated was caliche rock and is stockpiled on-site;
- Seven monitor wells on-site that are monitored on a weekly basis (access restrictions), delineation incomplete; Need approx. 4 to 5 additional monitor wells to complete PSH and Dissolved Phase delineation;
- Dissolved phase plume apparently migrating southwest as evidenced by increasing BTEX constituent concentrations in the down gradient monitor well, MW-7;
- PSH on-site: MW-1 and MW-4; manually recovering approximately $\frac{1}{4}$ gallon/well/week; Approx. 39 gallons recovered to date;
- Analytical results from the 4th quarter groundwater sampling event on 11/14/02 indicated that the dissolved phase benzene constituent concentration recorded at MW-2 exceeded the NMOCD regulatory standard, no other monitor wells sampled registered benzene or total BTEX concentrations above the NMOCD regulatory standards;
- Soil samples collected from the existing excavation side walls indicate soil in excess of NMOCD TPH constituent standards remaining in place;
- Baseline analytical results of the land farm on 12/27/01 indicate TPH values ranging from 3,678 ppm (Grid 1) to 4,711 ppm (Grid 2); BTEX constituents were within acceptable ranges in the land farm area;
- Working on PSIR, need to conduct a Risk Based Assessment to establish site specific closure criteria, Annual Groundwater Monitoring Report o be submitted April 2003;
- Site access has been denied by lessee (Red Byrd).

ONE CALL	11/16/2001	
EOTT	CO. ID: 739	
LF - 59		
EFFECTIVE:	11/20 - 12/06/01	
		CONTACTED
LF - 59	NW 4 SW 4 S32 T19S R37E	
	Confirmation #2001462618	
EOTT		
DUKE ENERGY		
TEXACO		
DYNEGY		
RICE		
SID RICHARDSON		
.6 miles from Monument Café - Hwy 8/322. Turn south @ yellow cattle guard, proceed .3 miles to intersection, turn west .1 to T intersection, turn south, proceed 2 miles to Y intersection, turn east, proceed .3 miles to T intersection, turn east .1, turn south .1 mile to stained area.		

o FB 11/S

ANNUAL MONITORING REPORT

**EOTT PIPELINE COMPANY
LF-59
LEA COUNTY, NEW MEXICO**

LR - 103

RECEIVED

MAY 09 2001

**ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION**

PREPARED FOR:

**EOTT PIPELINE COMPANY
5805 EAST HIGHWAY 80
MIDLAND, TEXAS 79701**

PREPARED BY:

**ENVIRONMENTAL TECHNOLOGY GROUP, INC.
4600 WEST WALL STREET
MIDLAND, TEXAS 79704**

APRIL 2001

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LABORATORY RESULTS

SUMMARY

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Table 1 – Ground Water Elevation

Table 2 – Ground Water Chemistry

APPENDICES

Appendix A – Laboratory Reports

INTRODUCTION

Environmental Technology Group, Inc. (ETGI), on behalf of EOTT Energy Corp. (EOTT), prepared this annual report in compliance with the New Mexico Oil Conservation Division (OCD) letter of May 1998, requiring submittal of an annual report by April 1 of each year. The report presents the results of the quarterly ground water monitoring events only. For reference, the Site Location Map is provided as Figure 1.

Ground water monitoring was conducted during four quarterly events in calendar year 2000 to assess the levels and extent of dissolved phase and phase separated hydrocarbon (PSH) constituents. The ground water monitoring events consisted of measuring static water levels in the monitoring wells, checking for the presence of PSH, and purging and sampling of each well exhibiting sufficient recharge. Monitoring wells containing measurable levels of PSH were not sampled.

FIELD ACTIVITIES

The site monitoring wells were gauged and sampled on February 23, April 6, August 29, and December 4, 2000. During each sampling event, the monitoring wells, designated to be sampled, were purged of approximately 3 well volumes of water or until the wells were dry using a PVC bailer or electrical Grundfos Pump. Ground water was allowed to recharge and samples were obtained using disposable Teflon samplers. Water samples were stored in clean, glass containers provided by the laboratory and placed on ice in the field. Purge water was collected in a polystyrene tank and disposed of by Pate Trucking, Hobbs, New Mexico, utilizing a licensed disposal facility (OCD AO SWD-730).

GROUND WATER GRADIENT

Locations of the monitoring wells and the inferred ground water gradient, as measured on December 4, 2000, are depicted on Figure 2, the Site Ground Water Gradient Map. The ground water elevation data are provided as Table 1. Ground water elevation contours, generated from the final quarterly event of calendar year 2000 water level measurements, indicated a general gradient of approximately 0.028 ft/ft to the southwest as measured between ground water monitoring wells MW-5 and MW-2. The depth to ground water, as measured from the top of the well casing, ranged between 19.33 to 22.95 feet for the shallow alluvial aquifer.

A measurable thickness of PSH was detected in monitoring wells MW-1 and MW-4 during the annual monitoring period. A maximum thickness of 0.30 foot in monitoring well MW-1, and 0.14 foot in monitoring well MW-4, was measured and is shown on Table 1.

LABORATORY RESULTS

Ground water samples obtained during the sampling events were hand delivered to Environmental Laboratory of Texas, Midland, Texas, Midland, Texas, for determination of benzene, toluene, ethyl benzene and total xylenes (BTEX) concentrations by EPA Method

SW846-8021B. The ground water chemistry data are provided as Table 2 and the Laboratory Reports are provided as Appendix A.

Laboratory results for all of the site ground water samples, obtained during the calendar year 2000 monitoring period, indicated that Benzene and BTEX concentrations were below method detection limits for monitoring wells MW-3 and MW-5. Benzene concentrations contained in monitoring wells MW-1 and MW-2 were above regulatory standards while BTEX concentrations were below regulatory standards.

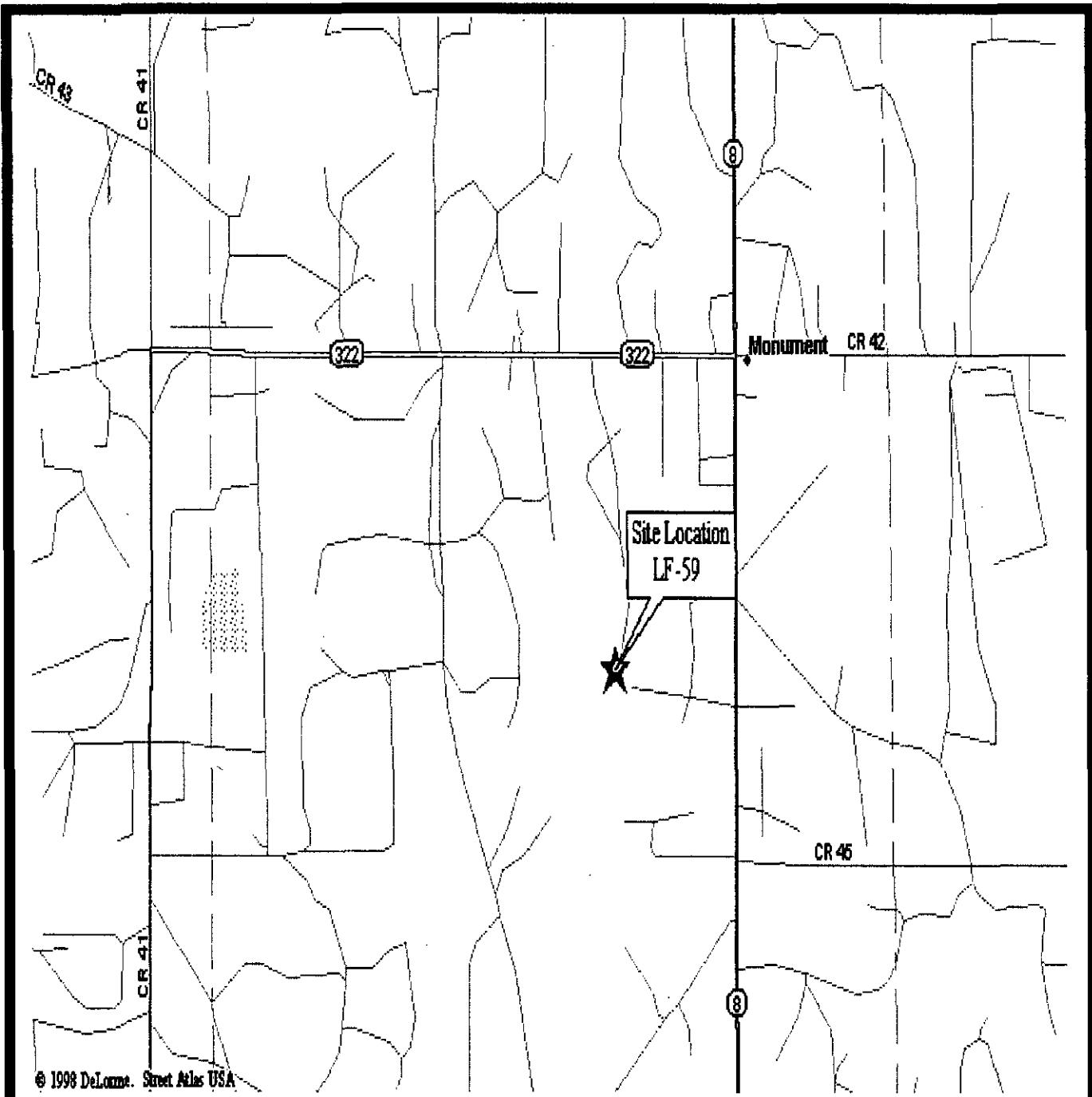
SUMMARY

This report presents the results of monitoring activities for the annual monitoring period of calendar year 2000. A measurable thickness of PSH was detected in monitoring wells MW-1 and MW-4 during the annual monitoring period. A maximum thickness of 0.30 foot in monitoring well MW-1, and 0.14 foot in monitoring well MW-4 was measured in the monitoring wells.

Ground water elevation contours, generated from the final quarterly event of calendar year 2000 water level measurements, indicated a general gradient of approximately 0.028 ft/ft to the southwest as measured between ground water monitoring wells MW-5 and MW-2.

Laboratory results for all of the site ground water samples, obtained during the calendar year 2000 monitoring period, indicated that Benzene and BTEX concentrations were below method detection limits for monitoring wells MW-3 and MW-5. Benzene concentrations contained in monitoring wells MW-1 and MW-2 were above regulatory standards while BTEX concentrations were below regulatory standards.

FIGURES



**FIGURE
1**

Not To Scale

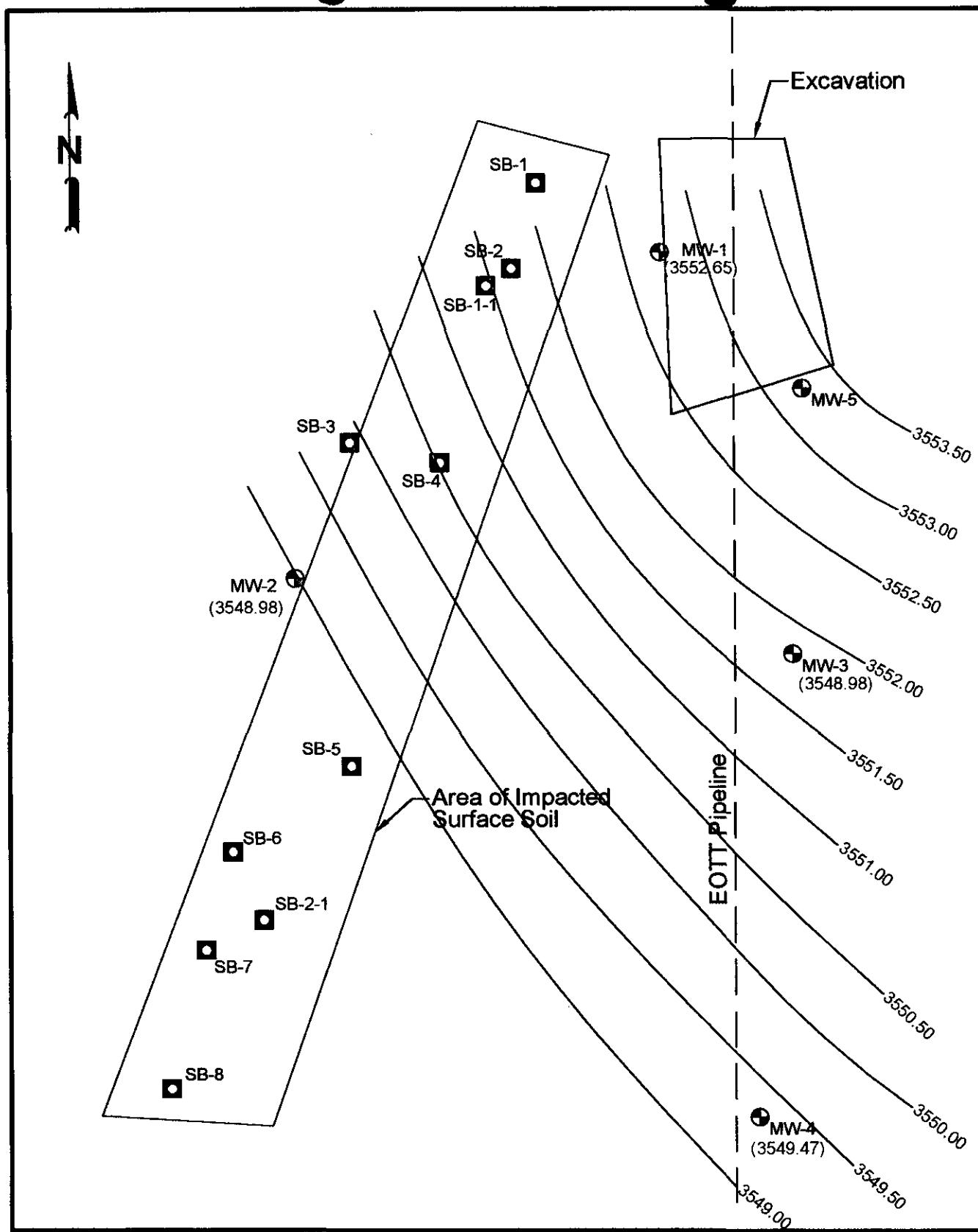
Site Location Map

**EOTT Energy Corp.
LF-59
Monument, NM**

**Environmental
Technology
Group, Inc.**

02 - 16 - 00 RS

ETGI Project # EOT2012R



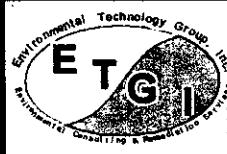
LEGEND:

- ETGI Monitoring Well Locations
- ETGI Soil Bore Locations
- Groundwater Gradient Contour

(3549.47) Groundwater Elevation (in feet)

Site Map
Site Groundwater
Gradient Map (12/4/00)

EOTT Energy Corp
LF - 59
Monument, NM



Environmental Technology
Group, INC.

Scale: 1" = 50'	Prep By: JDJ	Checked By: CR
December 4, 2000	ETGI Project # EOT2012R	

TABLES

TABLE 1
GROUND WATER ELEVATION
ANNUAL REPORT
EOTT ENERGY CORPORATION
LF - 59
LEA COUNTY, NEW MEXICO
ETGI PROJECT # EOT 2012R

WELL NUMBER	DATE MEASURED	CASING WELL ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 1	02/23/00	3,572.21	-	19.95	0.00	3,552.26
	04/06/00	3,572.21	-	19.81	0.00	3,552.40
	08/29/00	3,572.21	19.46	19.76	0.30	3,552.71
	12/04/00	3,572.21	19.55	19.61	0.06	3,552.65
MW - 2	02/23/00	3,571.46	-	22.95	0.00	3,548.51
	04/06/00	3,571.46	-	22.87	0.00	3,548.59
	08/29/00	3,571.46	-	22.06	0.00	3,549.40
	12/04/00	3,571.46	-	22.48	0.00	3,548.98
MW - 3	02/23/00	3,573.46	-	20.92	0.00	3,552.54
	04/06/00	3,573.46	-	20.85	0.00	3,552.61
	08/29/00	3,573.46	-	20.53	0.00	3,552.93
	12/04/00	3,573.46	-	20.64	0.00	3,552.82
MW - 4	02/23/00	3,570.15	21.88	21.94	0.06	3,548.26
	04/06/00	3,570.15	20.88	20.90	0.02	3,549.27
	08/29/00	3,570.15	20.43	20.54	0.11	3,549.70
	12/04/00	3,570.15	20.54	20.68	0.14	3,549.59
MW - 5	02/23/00	3562.92	-	19.80	0.00	3,543.12
	04/06/00	3572.92	-	19.74	0.00	3,553.18
	08/29/00	3572.92	-	19.33	0.00	3,553.59
	12/04/00	3572.92	-	19.46	0.00	3,553.46

TABLE 2
GROUND WATER CHEMISTRY
ANNUAL REPORT

EOTT ENERGY CORPORATION
LF - 59
LEA COUNTY, NEW MEXICO
ETGI PROJECT # EOT 2012R

All concentrations are in mg/L

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL- BENZENE	M,P- XYLEMES	O- XYLEMES
MW - 1	02/23/00	0.120	0.020	0.011	0.073	0.039
	04/06/00	0.355	0.024	0.022	0.274	0.083
MW - 2	02/23/00	0.196	0.004	<0.001	0.037	0.003
	04/06/00	0.278	0.005	0.002	0.086	<0.001
	08/29/00	0.272	0.007	0.026	0.055	0.026
	12/04/00	0.046	<0.001	0.006	0.009	0.002
MW - 3	02/23/00	<0.001	<0.001	<0.001	<0.001	<0.001
	04/06/00	<0.001	<0.001	<0.001	<0.001	<0.001
	08/29/00	<0.001	<0.001	<0.001	<0.001	<0.001
	12/04/00	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 5	02/23/00	<0.001	<0.001	<0.001	<0.001	<0.001
	04/06/00	<0.001	<0.001	<0.001	<0.001	<0.001
	08/29/00	<0.001	0.001	<0.001	<0.001	<0.001
	12/04/00	<0.001	<0.001	<0.001	<0.001	<0.001

APPENDIX

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

ENVIRONMENTAL TECHNOLOGY GROUP, INC.
ATTN: MR. JESSE TAYLOR
P.O. BOX 4845
MIDLAND, TEXAS 79704
FAX: 505-392-3760

Sample Type: Water
Sample Condition: Intact/ Iced/HCl
Project #: EOT 1012R
Project Name: L.F.-59
Project Location: Monument, N.M.

Sampling Date: 02/23/00
Receiving Date: 02/24/00
Analysis Date: 02/24/00

ELT#	FIELD CODE	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYLBENZENE (mg/L)	m,p-XYLENE (mg/L)	o-XYLENE (mg/L)
23716	MW-1	0.120	0.020	0.011	0.073	0.039
23717	MW-2	0.196	0.004	<0.001	0.037	0.003
23718	MW-3	<0.001	<0.001	<0.001	<0.001	<0.001
23719	MW-5	<0.001	<0.001	<0.001	<0.001	<0.001
% IA		94	89	89	90	89
% EA		95	90	90	91	90
BLANK		<0.001	<0.001	<0.001	<0.001	<0.001

METHODS: EPA SW 846-8021B,5030

Roland K. Tuttle
Roland K. Tuttle

2-28-00
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

ENVIRONMENTAL TECHNOLOGY GROUP, INC.

ATTN: MR. JESSE TAYLOR

P.O. BOX 4845

MIDLAND, TEXAS 79704

FAX: 915-520-4310

FAX: 505-392-3760

Sample Type: Water

Sampling Date: 04/06/00

Sample Condition: Intact/ Iced/HCl

Receiving Date: 04/06/00

Project #: EOT 1012R

Analysis Date: 4/10/00

Project Name: LF-59

Project Location: Monument, N.M.

ELT#	FIELD CODE	BENZENE mg/L	TOLUENE mg/L	ETHYLBENZENE mg/L	m,p-XYLENE mg/L	o-XYLENE mg/L
24650	MW-1	0.355	0.024	0.022	0.274	0.083
24651	MW-2	0.278	0.005	0.002	0.086	<0.001
24652	MW-3	<0.001	<0.001	<0.001	<0.001	<0.001
24653	MW-5	<0.001	<0.001	<0.001	<0.001	<0.001
% IA		91	90	92	95	88
% EA		94	92	94	97	90
BLANK		<0.001	<0.001	<0.001	<0.001	<0.001

METHODS: SW 846-8021B,5030

Raland K. Tuttle
Raland K. Tuttle

4-12-00
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

ENVIRONMENTAL TECHNOLOGY GROUP, INC.

ATTN: BETH ALDRICH
P.O. BOX 4845
MIDLAND, TEXAS 79704
FAX: 915-520-4310

Sample Type: Water

Sample Condition: Intact/ Iced/ HCl/ 27 deg. F

Project #: EOT 2012R

Project Name: LF-59

Project Location: Monument, N.M.

Sampling Date: 08/29/00

Receiving Date: 08/30/00

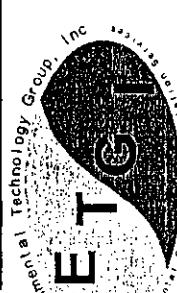
Analysis Date: 09/05/00

ELT#	FIELD CODE	BENZENE mg/L	TOLUENE mg/L	ETHYLBENZENE mg/L	m,p-XYLENE mg/L	o-XYLENE mg/L	TOTAL BTEX mg/L
30258	MW 2	0.272	0.007	0.026	0.055	0.026	0.386
30259	MW 3	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
30260	MW 5	<0.001	0.001	<0.001	<0.001	<0.001	0.001
% IA		103	100	103	106	99	
% EA		104	104	106	110	102	
BLANK		<0.001	<0.001	<0.001	<0.001	<0.001	

METHODS: SW 846-8021B,5030

Raland K. Tuttle
Raland K. Tuttle

9-6-00
Date

For Use On EOTT ENERGY CORP. Projects Only

 4600 West Wall
 Midland, TX 79703
 Tel (915) 522-1139
 Fax (915) 520-4310
 2540 West Marland
 Hobbs, NM 88242
 Tel (505) 387-4982
 Fax (505) 387-4701

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ANALYSIS REQUEST
 (Circle or Specify Method No.)

COC 212

Project Manager: BETH ALDRICH

Project Name: 207-201-2R

Project Location: Monument Mtn

LAB # (Samples Only)	FIELD CODE	# CONTAINERS	VOLUME/AMOUNT	WATER	SOIL	AIR	SLUDGE	HCL	HNO ₃	NASHO ₄	ICE	NONE	DATE	TIME	SAMPLING		PRESERVATION		METHOD		MATRIX		PROJECT NUMBER		Sampler Signature		Project Number:		
															Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	
MW 2		2	UV	X																									
MW 3		2	UV	X																									
MW 5		2	UV	X																									

ANALYSIS REQUEST
 (Circle or Specify Method No.)

Callouts/Analyses 375.4/325.3

TDS 160.1

Semi Volatiles 8270C

Volatile 8260B

TCLP Semi Volatiles

TCLP Volatiles

Toluol Metals Ag As Ba Cd Cr Pb Se Hg

Toluol Metals Ag As Ba Cd Cr Pb Se Hg 8010B/7470

PAH 8270C (8100 New Mexico only)

TPH 8015M GRO/DRO

TPH 418.4/TX 1005

BTEX 8021B/~~8021A~~

TCPL Volatiles

TCPL Semi Volatiles

TCPL Metals Ag As Ba Cd Cr Pb Se Hg

TCPL Volatiles

TCPL Semi Volatiles

TCPL Volatiles

TCPL Metals Ag As Ba Cd Cr Pb Se Hg

TCPL Volatiles

TCPL Semi Volatiles

TCPL Volatiles

TCPL Metals Ag As Ba Cd Cr Pb Se Hg

TCPL Volatiles

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TCPL Metals Ag As Ba Cd Cr Pb Se Hg

TCPL Volatiles

TCPL Semi Volatiles

TCPL Volatiles

TCPL Metals Ag As Ba Cd Cr Pb Se Hg

TCPL Volatiles

TCPL Semi Volatiles

TCPL Volatiles

TCPL Metals Ag As Ba Cd Cr Pb Se Hg

TCPL Volatiles

REMARKS: Rec 270F
Fair Results: Hobbs Office
Main Results: Ec TT
Invoice: Ec TT

Received by: Date: Time: Received by: Date: Time:
Jimmie Coons 9/30/04 0900 Jimmie Coons 9/30/04 0900

Received at Lab by: Date: Time:
Jimmie Coons 9/30/04 1330

Relinquished by: Date: Time:
Jimmie Coons 9/30/04 1330

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

ENVIRONMENTAL TECHNOLOGY GROUP, INC.
 ATTN: BET-T ALDRICH
 P.O. BOX 4845
 MIDLAND, TEXAS 79704
 FAX: 915-520-4310
 FAX: 505-397-4701

Sample Type: Water
 Sample Condition: Intact/ Iced/ HCl/ -2.0 deg. C
 Project #: EOT 2012R
 Project Name: LF-59
 Project Location: Monument, N.M.

Sampling Date: 12/04/00
 Receiving Date: 12/09/00
 Analysis Date: 12/09/00

ELT#	FIELD CODE	BENZENE mg/L	TOLUENE mg/L	ETHYLBENZENE mg/L	m,p-XYLENE mg/L	o-XYLENE mg/L
35147	MW 2	0.046	<0.001	0.006	0.009	0.002
35148	MW 3	<0.001	<0.001	<0.001	<0.001	<0.001
35149	MW 5	<0.001	<0.001	<0.001	<0.001	<0.001
35150	EB 1	<0.001	<0.001	<0.001	<0.001	<0.001
<hr/>						
%IA		102	105	104	111	104
%EA		94	100	96	104	100
BLANK		<0.001	<0.001	<0.001	<0.001	<0.001

METHODS: EPA SW 846-8021B, 5030

Roland K. Tuttle
 Roland K. Tuttle

12-12-00
 Date

**REMEDIATION STATUS REPORT
AND
ADDITIONAL SUBSURFACE INVESTIGATION RESULTS**

**LF-59
MONUMENT, NEW MEXICO**

RECEIVED

MAR 22 2000

**ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION**

**Prepared For:
EOTT Energy Corp
5805 East Highway 80
Midland, Texas 79701**

Environmental Technology Group, Inc. Project No. EOT1012R

**Prepared By:
Environmental Technology Group, Inc.
4600 West Wall Street
Midland, Texas 79703**

February 2000

A Report Prepared for:

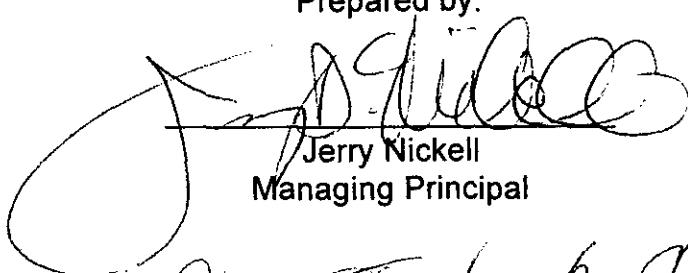
EOTT Energy Corp
5805 East Highway 80
Midland, Texas 79701

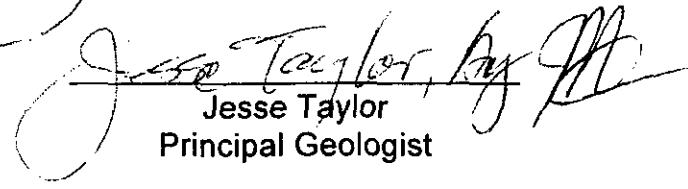
Remediation Status Report
And
Additional Subsurface Investigation Results

LF-59
Monument, New Mexico

Environmental Technology Group, Inc. Project No. EOT1012R

Prepared by:


Jerry Nickell
Managing Principal


Jesse Taylor
Principal Geologist

Environmental Technology Group, Inc.
4600 West Wall Street
Midland, Texas 79703

February 2000

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APPENDIX

- APPENDIX A:** TPH Reduction Graphs
- APPENDIX B:** Soil Boring Logs
- APPENDIX C:** Laboratory Analytical Data

1.0 INTRODUCTION

The site is located approximately two miles southwest of the town of Monument, New Mexico, in Section 6, Township 20 South, Range 36 East. A site location map is provided as Figure 1. On two separate occasions, a pipeline failure resulted in the release of an unknown amount of crude oil into the soils at the site. The area of apparent crude oil impact is depicted on Figure 2, the site map.

2.0 INITIAL SOIL CONDITIONS

Initial grab samples from the surface contained free phase crude oil and measured in excess of 50,000 mg/Kg TPH by EPA Method 8015 GRO/DRO Extended Range. Initial grab sample results indicated that the northern portion of the stained area were more highly impacted as compared to the southern portion.

Initial soil treatment, with catalyzed hydrogen peroxide, began in September of 1999 with treatments occurring at approximately four week intervals. Initial applications concentrated on the northern portion of the site based on the initial grab samples. On October 29, 1999, two soil borings, SB-1-1 and SB-2-1, were advanced in the stained area. As depicted on the site maps, SB-1-1 is located in the northern portion and SB-2-1 is located in the southern portion of the site.

Boring logs, provided as Appendix B, demonstrate that the contamination extended to greater than 15 feet below the ground surface (bgs) at soil boring SB-1-1 but was generally limited to less than five feet bgs at soil boring SB-2-1. For that reason, and concerns regarding the penetration of hydrogen peroxide through the caliche, subsequent treatments were concentrated on the northern portion of the site. Laboratory analysis are summarized in Table 2 and attached as Appendix C.

3.0 RECENT SOIL CONDITIONS

On February 8, 2000, eight soil borings, SB-1 through SB-8, were advanced in the area of stained surface soil as depicted on the site maps. A cross-section of these borings, depicting the presence of caliche and highly impacted soil is provided as Figure 3. The cross-section indicates that there are three caliche zones in the subsurface, here labeled Zones A, B and C. The cross-section also shows that there is impacted soil at depth in the far southern portion of the site, as well as the northern portion.

The soil boring data (Appendix B) was used to create Figures 4 and 5, which are the estimated extent of the different caliche zones and the presence of impacted soils at depth. It appears that ponding of crude oil in topographically low areas, combined with a gap in the caliche zones, creates the condition in which the oil can migrate to depth.

Prior to the completion of soil borings SB-1 through SB-8 and monitoring well MW-4, an estimate was made of the impacted soil below the area of surface staining. At that time, it was estimated that there was approximately 8,000 cubic yards of impacted soil at the

site. This estimate does not include the volume of impacted soil that may be present in the subsurface that is not manifested on the surface. For example, there is no surface impact in the vicinity of monitoring well MW-4, however, there is significant soil impact in the subsurface at that point. Therefore, it appears that there may be a significant amount of undocumented petroleum impacted area in the southern most portion of the site, between SB-8 and MW-4.

In addition, on several occasions during treatment, free phase oil has been brought to the surface at the southern edge of the treatment area. This also may be an indication of the presence of an undocumented crude oil source present in the southern most portion of the site.

4.0 REMEDIAL PROGRESS

A series of graphs, which depict TPH concentrations over time, are provided as Appendix A. All TPH concentrations are measured by EPA Method 8015 GRO/DRO Modified for consistency (Appendix C). Based on the current sampling results (Table 3) demonstrate a substantial reduction of GRO/DRO TPH in the area of SB-1-1 (SB-2) from the surface to twenty feet in depth, as set out below in Table 1.

Table 1 - Soil TPH (GRO/DRO) Reductions (SB-1-1/SB-2)			
Sample Depth	Baseline Analysis 10/29/99	Post Treatment Analysis 2/8/00	% Of Reduction
Surface to 1'	26,943 mg/kg	17,295 mg/kg	36%
5 to 7'	22,205 mg/kg	1,866 mg/kg	92%
10 to 12'	4,401 mg/kg	1,223 mg/kg	72%
15 to 17'	7,458 mg/kg	1,972 mg/kg	74%
20'	N/A	207 mg/kg	N/A

In addition, four graphs are attached showing the TPH concentrations over time at soil boring SB-1-1. These graphs also illustrate the significant decline in TPH concentrations over time at both the surface and at depth. These data were collected prior to the treatment of the soils with catalyzed hydrogen peroxide throughout the unsaturated zone. Therefore, the data demonstrates strong evidence that the catalyzed hydrogen peroxide Injectate has penetrated the caliche zone and is effectively mitigating the crude oil contamination at depth.

The final graph depicts the TPH concentrations at the surface in the vicinity of SB-2-1 over time. Data collected through February 8, 2000 (SB-7 and SB-8) shows a slight increase

in TPH concentrations as compared to SB-2-1. It is suspected that the undocumented source of free phase crude in the unsaturated zone, in the area of SB-8, has migrated either vertically and/or horizontally in the area of SB-2-1 and SB-7, and potentially is the cause of the increased concentrations in the southern most portion of the site in the area of SB-8. Subsequent to the February 8, 2000 investigation, a surface sample was collected (0 to 1') at the SB-2-1 location. As shown on the graph, a subsequent surface sample at SB-2-1 has also demonstrated a significant decline at the respective interval.

None of the initial grab sample data are used since the locations of the sample points was not accurately documented. Therefore, a significant decline in soil concentrations at the surface, has not been adequately documented. Laboratory analysis reports are included as Appendix C.

5.0 CONCLUSIONS AND RECOMMENDATIONS

A significant decline in concentrations has been observed throughout the vertical section in the northern portion of the impacted/stained area. Therefore, the data confirms that the recommended remedial actions have been successful in degrading the hydrocarbons present in this area.

Analytical data and visual observations indicate that there is an undocumented source area of crude oil in the subsurface in the southern most portion of the site (SB-8) that appears to extend eastward along the fence line and through monitoring well MW-4. The migration of this undocumented volume of oil appears to serve as an ongoing source in the southern most area of the site, in and around SB-2-1, SB-7 and SB-8.

For these reasons, ETGI recommends that an additional subsurface investigation be undertaken in the area between the southern most portion of the stained surface area (SB-8) and eastward beyond monitoring well MW-4. The purpose of this investigation would be to delineate the extent of subsurface soil impact that is not manifested on the surface. It is important that the extent of this material be understood in order to facilitate and monitor the ongoing soil remediation in an efficient manner.

Following the conclusion of additional subsurface investigation activities ETGI recommends a continuation of the in-situ treatment of impacted areas of the site utilizing catalyzed hydrogen peroxide injections.

6.0 MONITORING PROGRAM

During and subsequent to the current and recommended investigation and remedial activities, the ground water elevations in all site monitoring wells will be gauged and monitored for the presence of PSH on a monthly basis. All of the site monitoring wells will be sampled quarterly and the samples will be submitted for the analysis of BTEX (EPA Method 8020, 5030) and TPH (EPA Method 8015, modified for DRO and GRO). An annual report will be provided with a summary of all field activities and data results. The following developments at the site will warrant timely notification interim to the annual

report:

- The detection of COCs in currently non-impacted monitoring wells for two consecutive monitoring periods;
- The detection of PSH in any well in which PSH has not been present previously;
- The recurrence of PSH in any well in which PSH was removed during remedial activities.

The monitoring plan will continue until such time that site closure is granted by the appropriate regulatory agency. Significant trends in COC concentrations or other significant developments at the site may have a bearing on the timing of a closure request.

7.0 QA/QC PROCEDURES

7.1 Soil Sampling

Samples of subsurface soils will be obtained utilizing either a split spoon sampler (air rotary drilling rig) or a two inch, continuous sampling tube with a clean polybuterate liner (geoprobe). Representative soil samples will be divided into two separate portions using clean, disposable gloves and clean sampling tools. One portion of the soil sample will be placed in a disposable sample bag. The bag will be labeled and sealed for head-space analysis using a photo-ionization detector (PID) calibrated to a 100 ppm isobutylene standard. Each sample will be allowed to volatilize for approximately thirty minutes at ambient temperature prior to conducting the analysis.

The other portion of the soil sample will be placed in a sterile glass container equipped with a Teflon-lined lid furnished by the analytical laboratory. The container will be filled to capacity to limit the amount of head-space present. Each container will be labeled and placed on ice in an insulated cooler. Upon selection of samples for analysis, the cooler will be sealed for shipment to the laboratory. Proper chain-of-custody documentation will be maintained throughout the sampling process.

Soil samples will be delivered to Environmental Lab of Texas, Inc. in Midland, Texas for BTEX and TPH analyses using the methods described below. Soil samples will be analyzed for BTEX and TPH-DRO within fourteen days following the collection date.

The soil samples will be analyzed as follows:

- BTEX concentrations in accordance with EPA Method 8020, 5030
- TPH concentrations in accordance with modified EPA Method 8015-GRO/DRO

7.2 Ground Water Sampling

Monitoring wells will be developed and purged with a clean PVC bailer. The bailer will be

cleaned prior to each use with Liqui-Nox detergent and rinsed with distilled water. Monitoring wells with sufficient recharge will be purged by removing a minimum of three well volumes. Monitoring wells that do not recharge sufficiently will be purged until no additional ground water can be obtained.

After purging the wells, ground water samples will be collected with a disposable Teflon sampler and polyethylene line by personnel wearing clean, disposable gloves. Ground water sample containers will be filled in the order of decreasing volatilization sensitivity (i.e., BTEX containers will be filled first and PAH containers second).

Ground water samples collected for BTEX analysis will be placed in 40 ml glass VOA vials equipped with Teflon-lined caps. The containers will be provided by the analytical laboratory. The vials will be filled to a positive meniscus, sealed, and visually checked to ensure the absence of air bubbles.

Ground water samples collected for PAH analysis will be filled to capacity in sterile, 1 liter glass containers equipped with Teflon-lined caps. Ground water samples collected for metals analysis will be filled to capacity in sterile, 1 liter plastic containers equipped with Teflon-lined caps. The containers will be provided by the analytical laboratory.

The filled containers will be labeled and placed on ice in an insulated cooler. The cooler will be sealed for transportation to the analytical laboratory. Proper chain-of-custody documentation will be maintained throughout the sampling process.

The ground water samples will be analyzed as follows:

- BTEX concentrations in accordance with EPA Method 8020, 5030
- TPH concentrations in accordance with modified EPA Method 8015-GRO/DRO

7.3 Decontamination Of Equipment

Cleaning of drilling equipment will be the responsibility of the drilling company. In general, the cleaning procedures will consist of using high pressure steam to wash the drilling and sampling equipment prior to drilling and prior to starting each hole. Prior to use, the sampling equipment will be cleaned with Liqui-Nox detergent and rinsed with distilled water.

7.4 Laboratory Protocol

The laboratory will be responsible for proper QA/QC procedures. These procedures will either be transmitted with the laboratory reports or on file at the laboratory.

8.0 LIMITATIONS

Environmental Technology Group, Inc. has prepared this Remediation Status and Additional Subsurface Investigation Report to the best of its ability. No other warranty,

expressed or implied, is made or intended.

Environmental Technology Group, Inc. has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. Environmental Technology Group, Inc. has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and that the information provided in documents or statements is true and accurate. Environmental Technology Group, Inc. has prepared this report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Environmental Technology Group, Inc. also notes that the facts and conditions referenced in this report may change over time and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of EOTT Energy Corp. The information contained in this report including all exhibits and attachments, may not be used by any other party without the express consent of Environmental Technology Group, Inc. and/or EOTT Energy Corp.

DISTRIBUTION

Copies 1 and 2 to : EOTT Energy Corp
5805 East Highway 80
Midland, Texas 79701

Copy 3 to: Environmental Technology Group, Inc.
4600 West Wall Street
Midland, Texas 79703

Copy 4 to: Environmental Technology Group, Inc.
1776 Woodstead Court
Suite 117
The Woodlands, Texas 77380

COPY NO.:_____

FIGURES

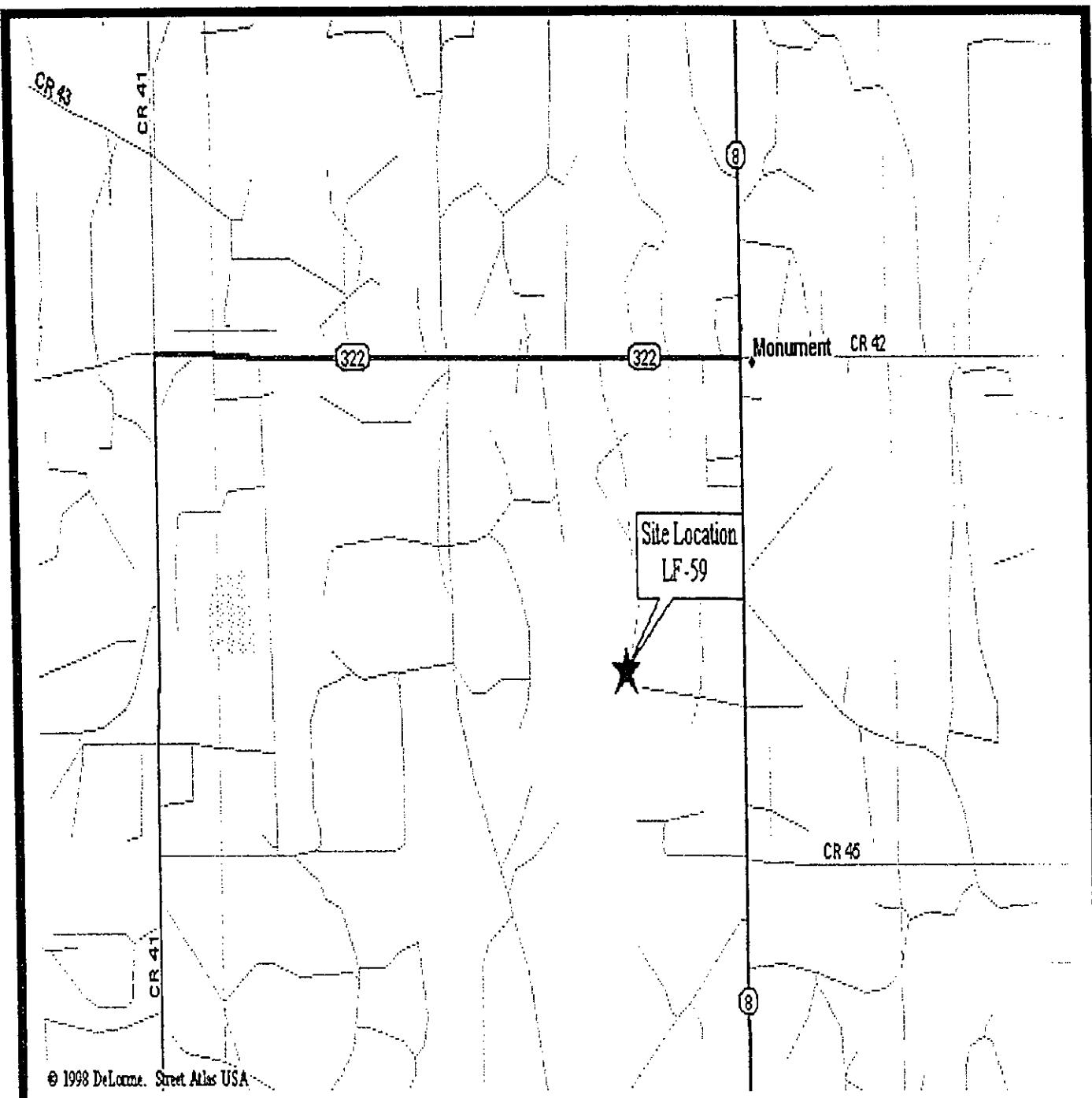


FIGURE
1

Not To Scale

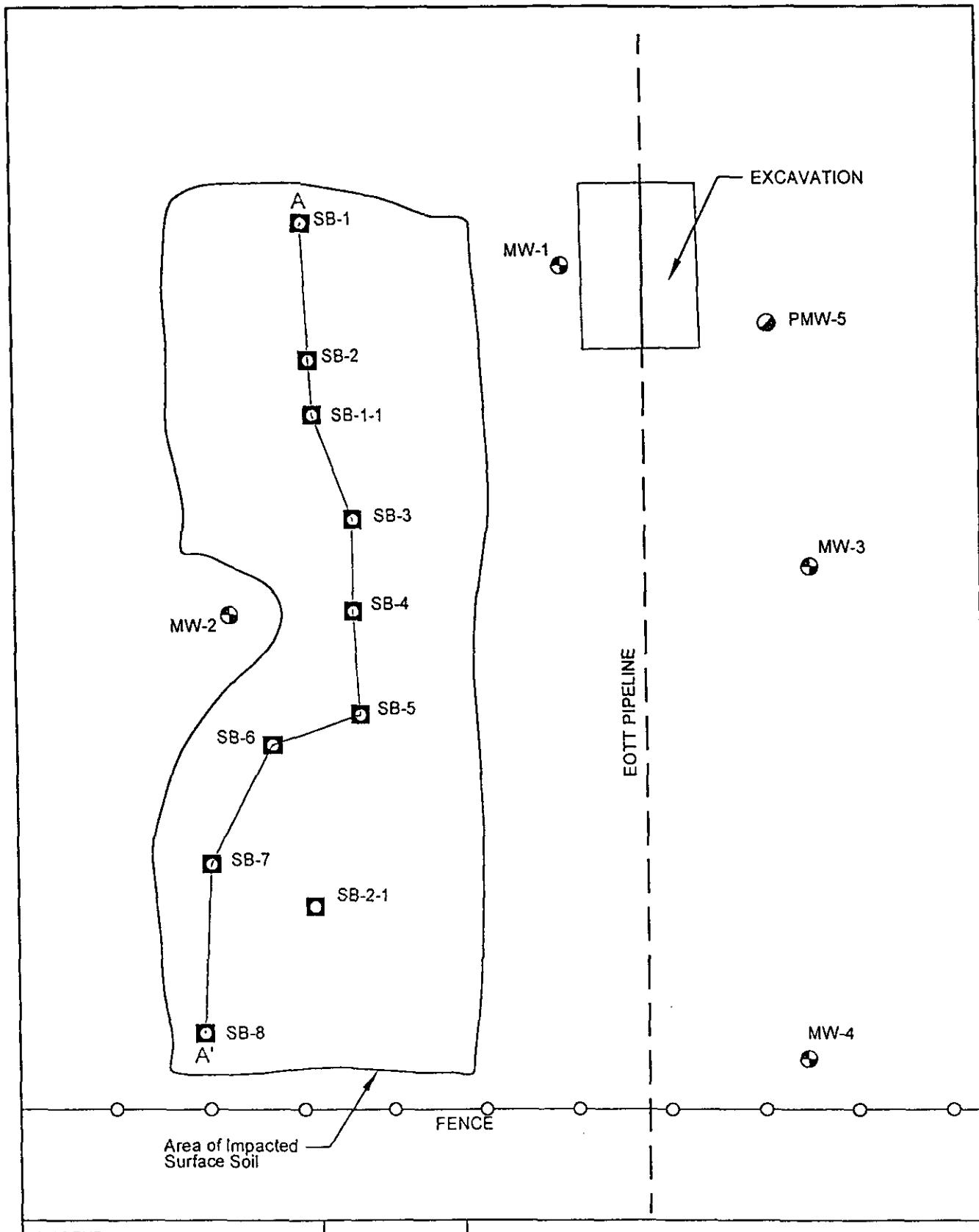
Site Location Map

EOTT Energy Corp.
LF-59
Monument, NM

Environmental
Technology
Group, Inc.

02 - 16 - 00 RS

ETGI Project # EOT 1012R



LEGEND:

- ETGI Monitoring Well Locations
- ETGI Proposed Monitoring Well Location
- ETGI Soil Boring Locations
- Cross - Section Line

Figure 2
Site Map/Cross-
Section A-A'

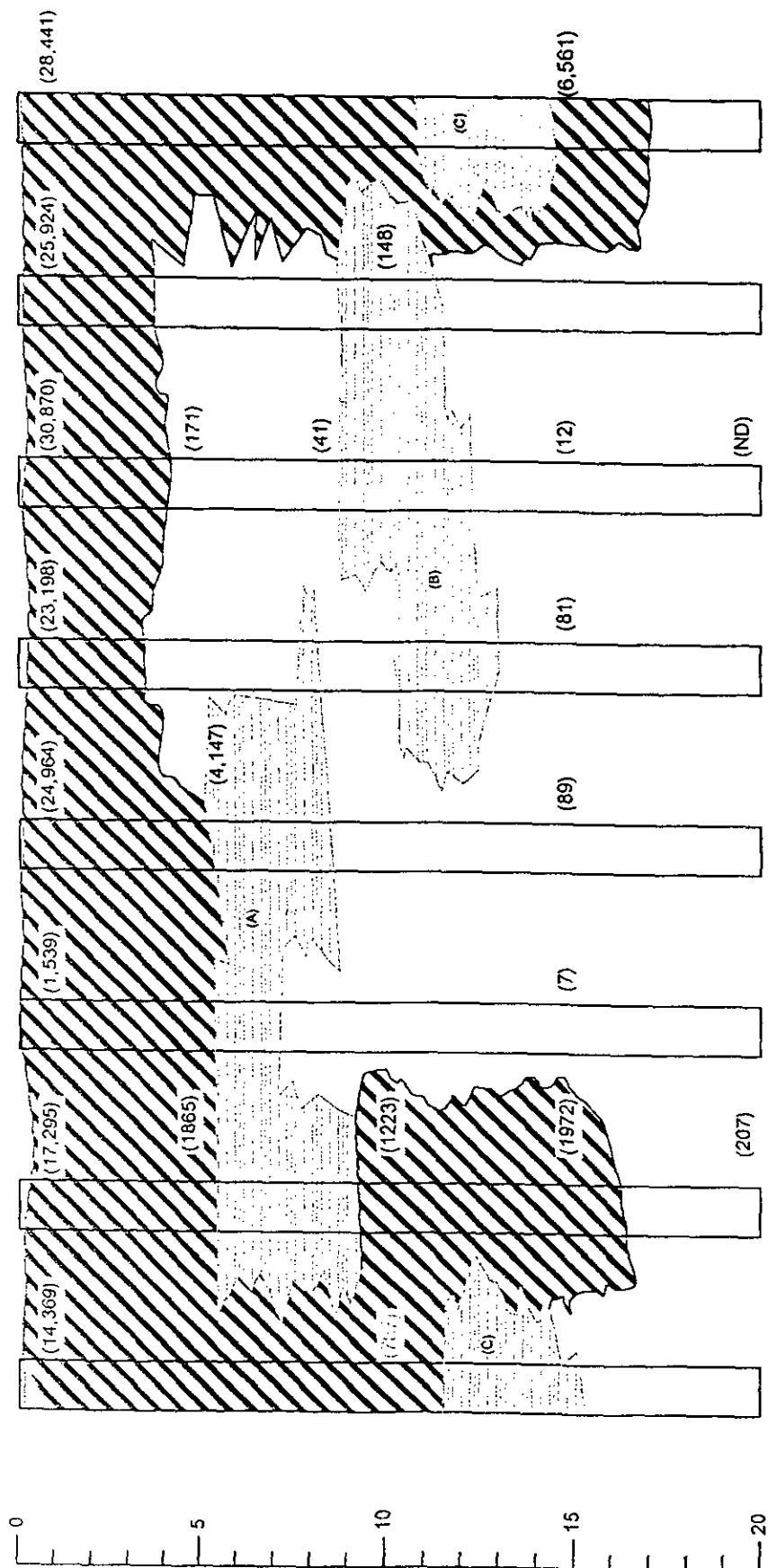
EOTT Energy
LF - 59
Monument, NM



Environmental Technology
Group, INC.

Scale: NTS	Prep By: RS	Checked By: JT
February 15, 2000	ETGI Project # EOT 1012R	

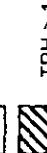
A SB-1 SB-2 SB-3 SB-4 SB-5 SB-6 SB-7 SB-8 A'



Legend



Calcite



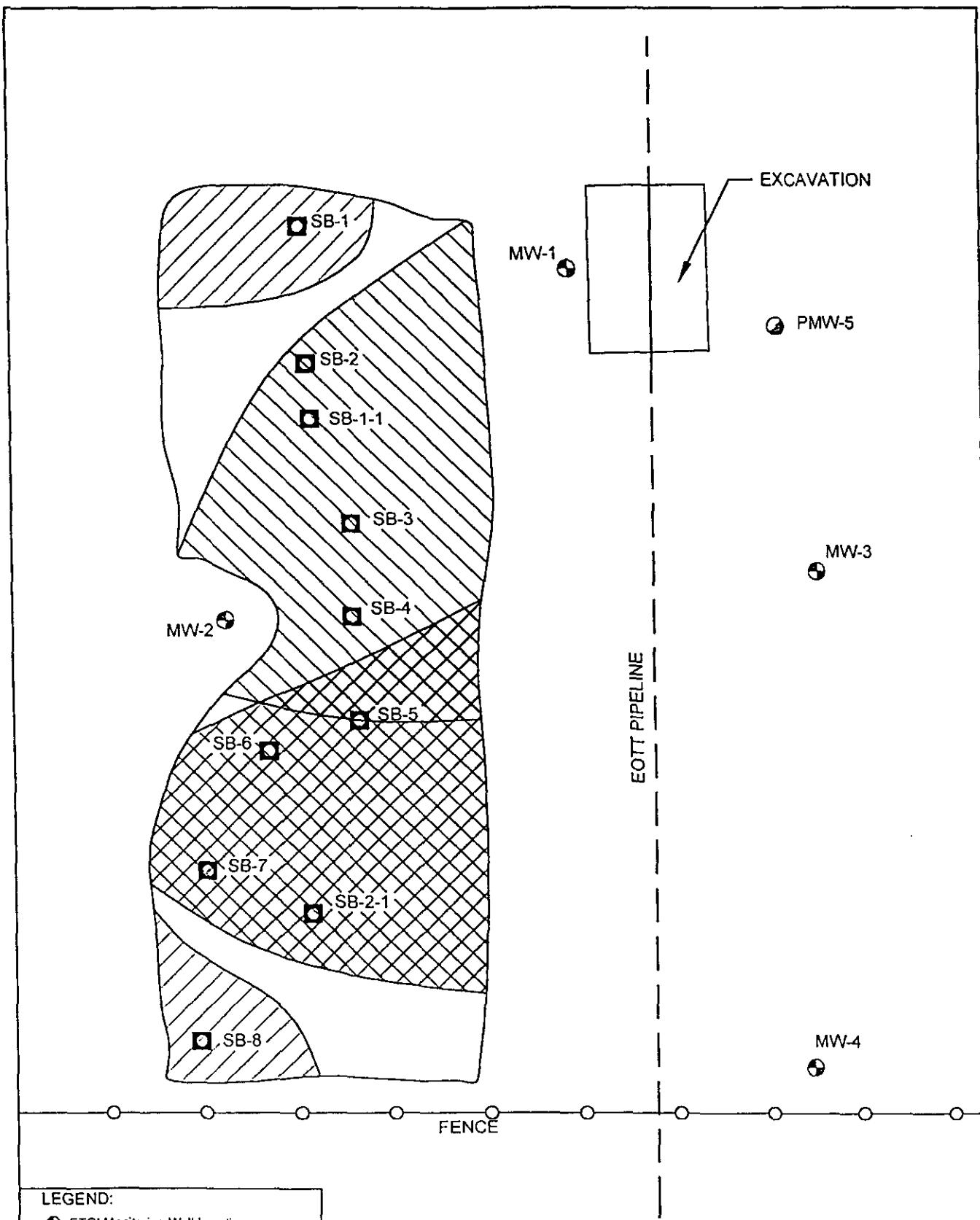
TPH > 1,000 mg/kg

Figure 3
Cross - Section
A - A'
EOTT Energy Corp.
LF - 59
Lea County, N.M.

Environmental Technology
Group, INC.



Scale: USE SCALE	Prep By: RS	Checked By: JT
FEbruary 18, 2000	EOTT Project # EOT 1012R	



LEGEND:

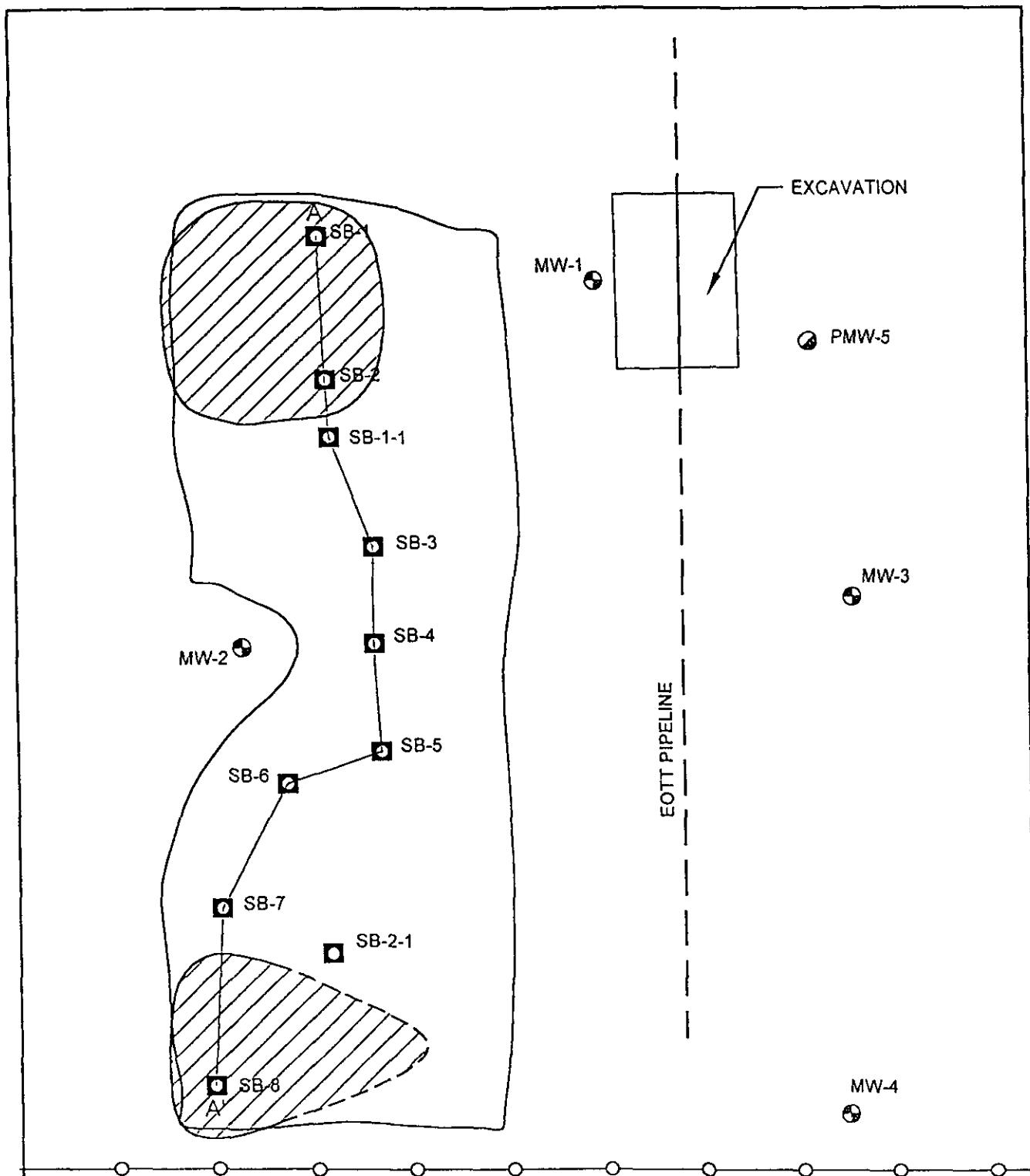
- ETGI Monitoring Well Locations
- ETGI Proposed Monitoring Well Location
- ETGI Soil Boring Locations
- Cross - Section Line
- Zone A
- Zone B
- Zone C
- Zone A&B

Figure 4
Distribution
of Caliche
EOTT Energy
LF - 59
Monument, NM



**Environmental Technology
Group, INC.**

Scale: NTS	Prep By: RS	Checked By: JT
February 15, 2000	ETGI Project # EOT 1012R	



LEGEND:

- ETGI Monitoring Well Locations
- ETGI Proposed Monitoring Well Location
- ETGI Soil Boring Locations
- Cross - Section Line
- - - Undefined
- ▨ Impacted Soil at Depth

Figure 5
Distribution of Impacted
Soil at Depth

EOTT Energy
LF - 59
Monument, NM



**Environmental Technology
Group, INC.**

Scale: NTS	Prep By: RS	Checked By: JT
February 15, 2000	ETGI Project # EOT 1012R	

TABLES

Table 2
Soil TPH Analysis
EOTT Site: LF-59
Monument, N.M.
ETGI Project No. EOT1012R

SAMPLE ID	SAMPLE DEPTH	SAMPLE DATE	GRO C6-C10 (mg/kg)	DRO >C10-C25 (mg/kg)
SB1-1	Surface to 1'	10/29/00	6680	20263
SB1-1	5 to 7'	10/29/00	7645	14560
SB1-1	10 to 12'	10/29/00	946	3455
SB1-1	15 to 17'	10/29/00	2677	4781
SB2-1	Surface to 1'	10/29/00	6805	17789
SB2-1	5' to 7'	10/29/00	12	101
SB2-1	10' to 12'	10/29/00	<10	20
SB2-1	15'	10/29/00	<10	<10

Soil TPH Analysis: EPA Method 8015 Modified

Table 3
Soil TPH Analysis
EOTT Site: LF-59
Monument, N.M.
ETGI Project No. EOT1012R

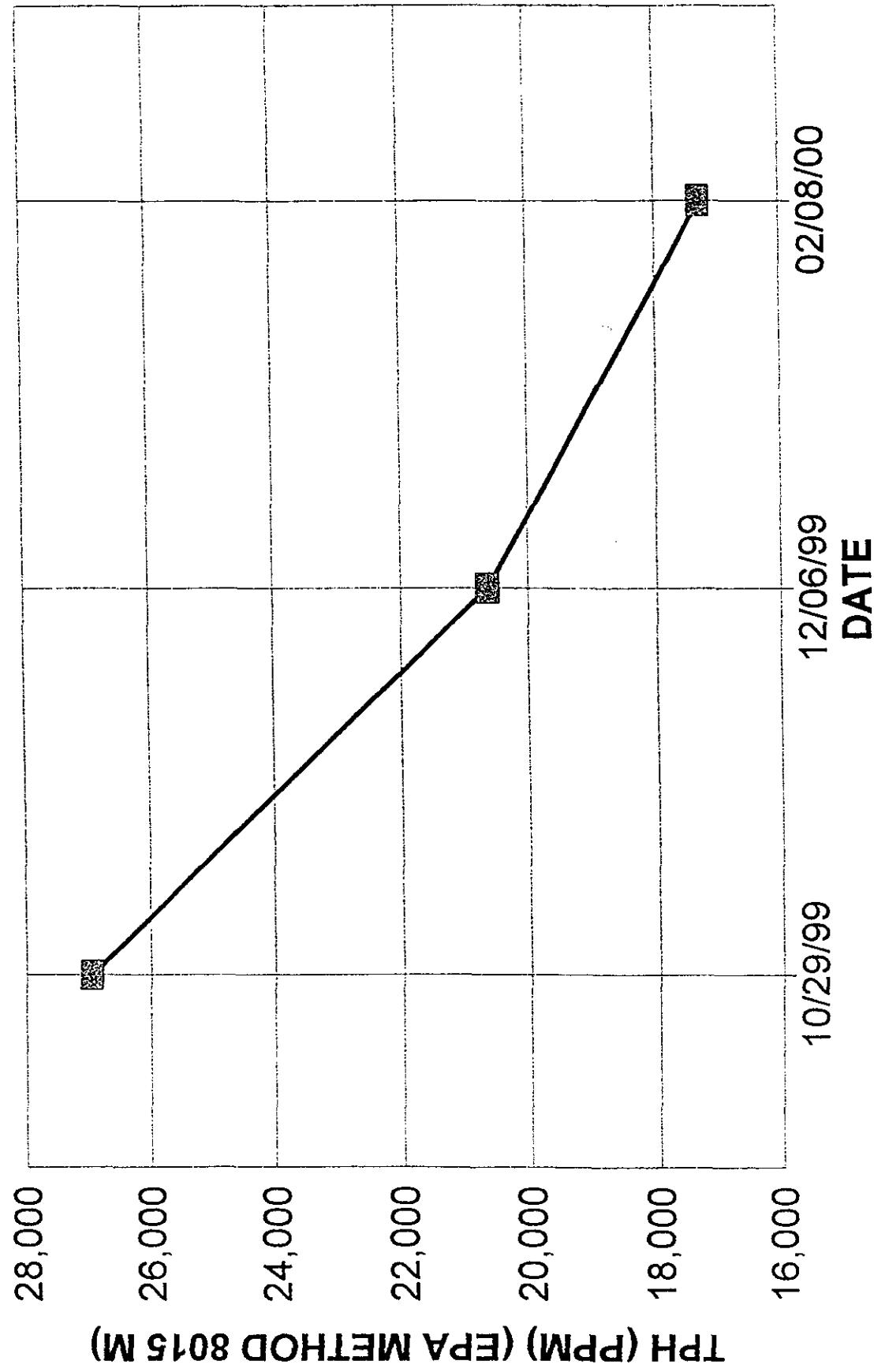
SAMPLE ID	SAMPLE DEPTH	SAMPLE DATE	GRO C6-C10 (mg/kg)	DRO >C10-C25 (mg/kg)
SB-1	Surface to 1'	02/08/00	185	14184
SB-1	10'	02/08/00	62	725
SB-2	Surface to 1'	02/08/00	765	16530
SB-2	5'	02/08/00	313	1552
SB-2	10'	02/08/00	65	1158
SB-2	15'	02/08/00	225	1747
SB-2	20'	02/08/00	<10	207
SB-3	Surface to 1'	02/08/00	<10	1539
SB-3	15'	02/08/00	<10	70
SB-4	Surface to 1'	02/08/00	222	24742
SB-4	5'	02/08/00	826	3321
SB-4	15'	02/08/00	<10	89
SB-5	Surface to 1'	02/08/00	3937	19261
SB-5	15'	02/08/00	<10	81
SB-6	Surface to 1'	02/08/00	5808	25062
SB-6	5'	02/08/00	<10	171
SB-6	10'	02/08/00	<10	41
SB-6	15'	02/08/00	<10	12
SB-6	19.5	02/08/00	<10	<10
SB-7	Surface to 1'	02/08/00	3725	22199
SB-7	10'	02/08/00	<10	148
SB-8	Surface to 1'	02/08/00	5121	23320
SB-8	15'	02/08/00	1528	5033
MW-1	Surface to 1'	02/08/00	<10	151
MW-1	15'	02/08/00	<10	17
MW-2	15'	02/08/00	<10	<10
MW-3	15'	02/08/00	<10	<10
MW-4	15'	02/08/00	106	560
MW-4	20'	02/08/00	<10	<10

Soil TPH Analysis: EPA Method 8015 Modified

APPENDIX A

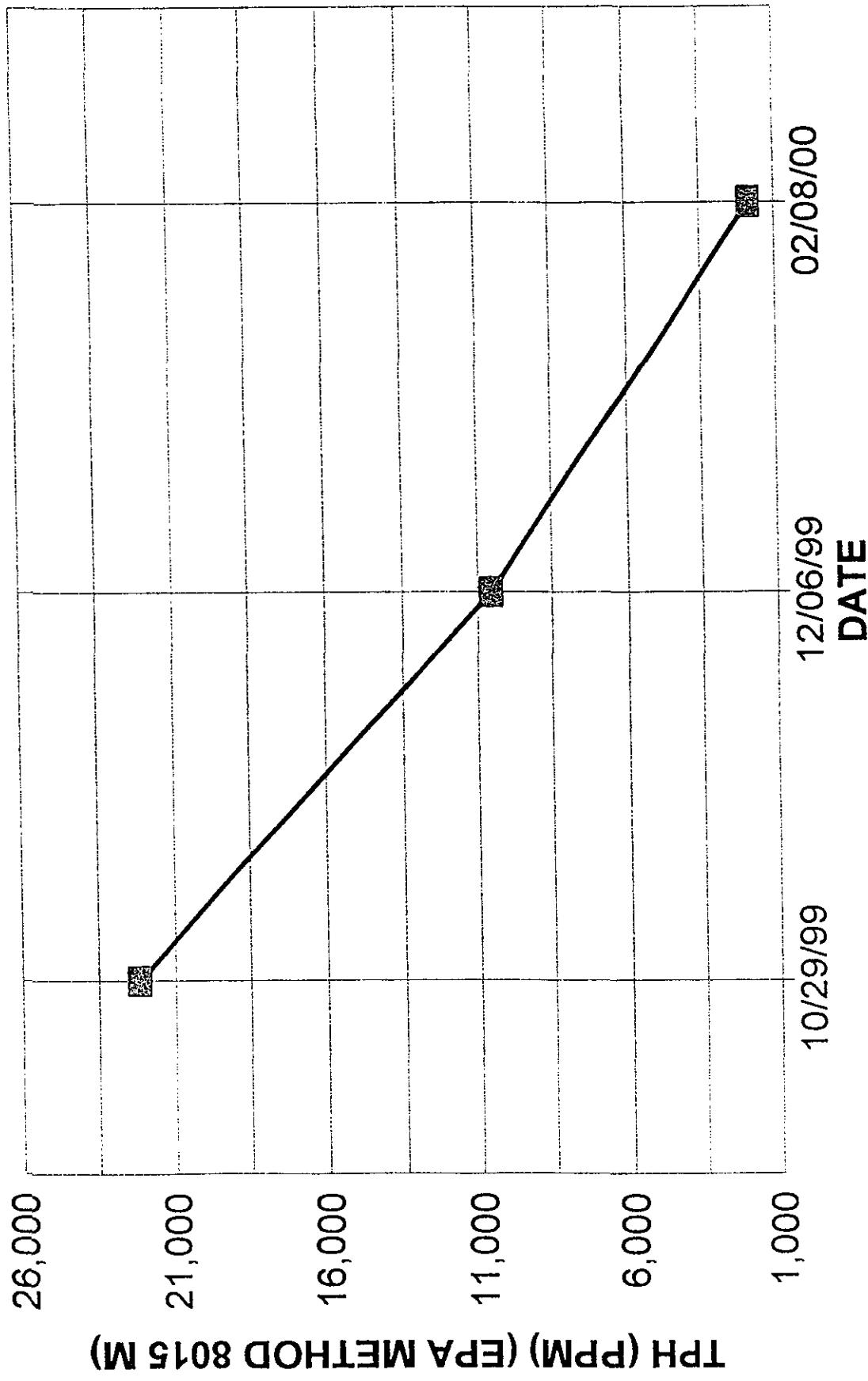
LF-59

TPH IN SOIL SB-1-1 (0-2")



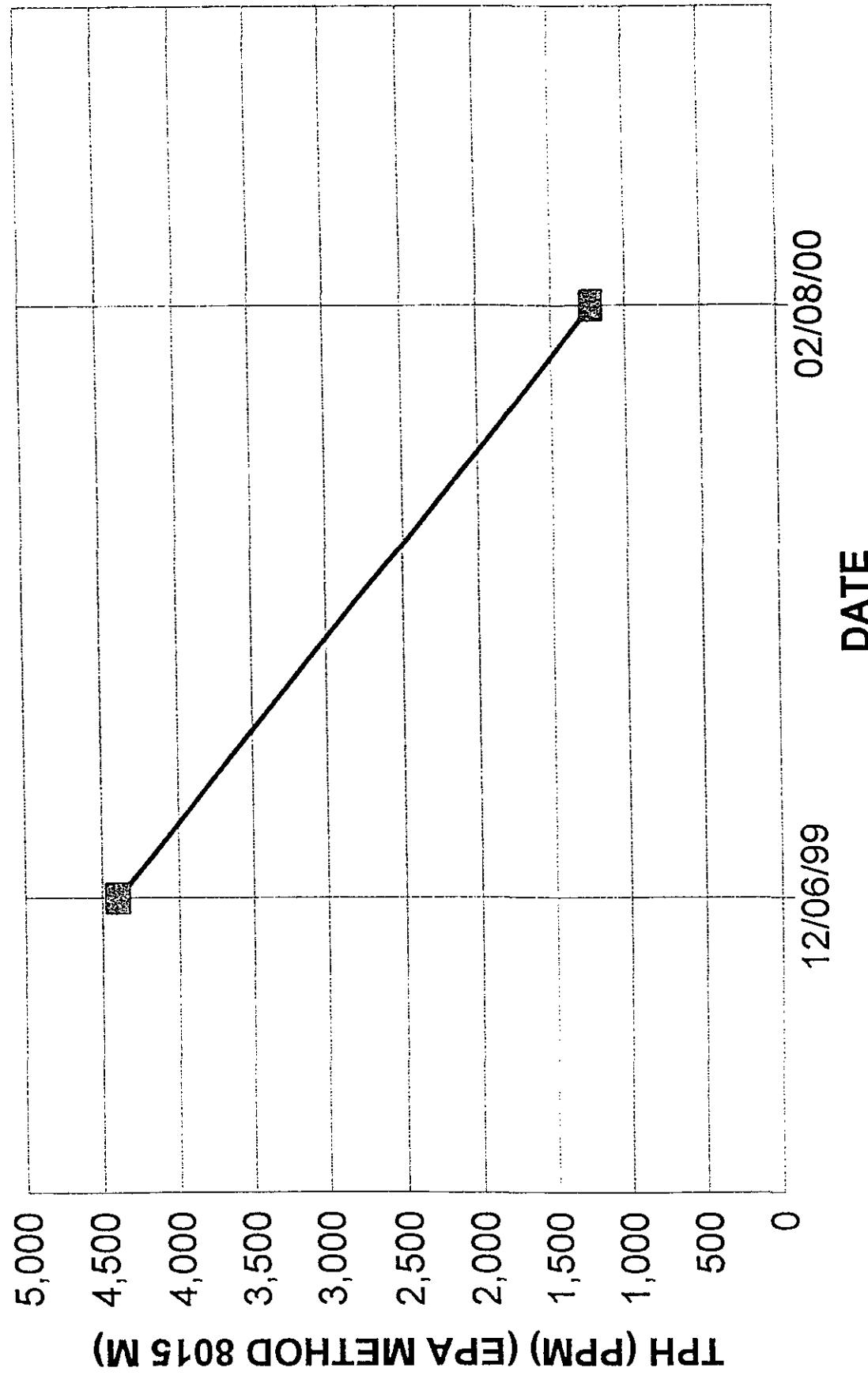
LF-59

TPH IN SOIL SB-1-1 (4-6")



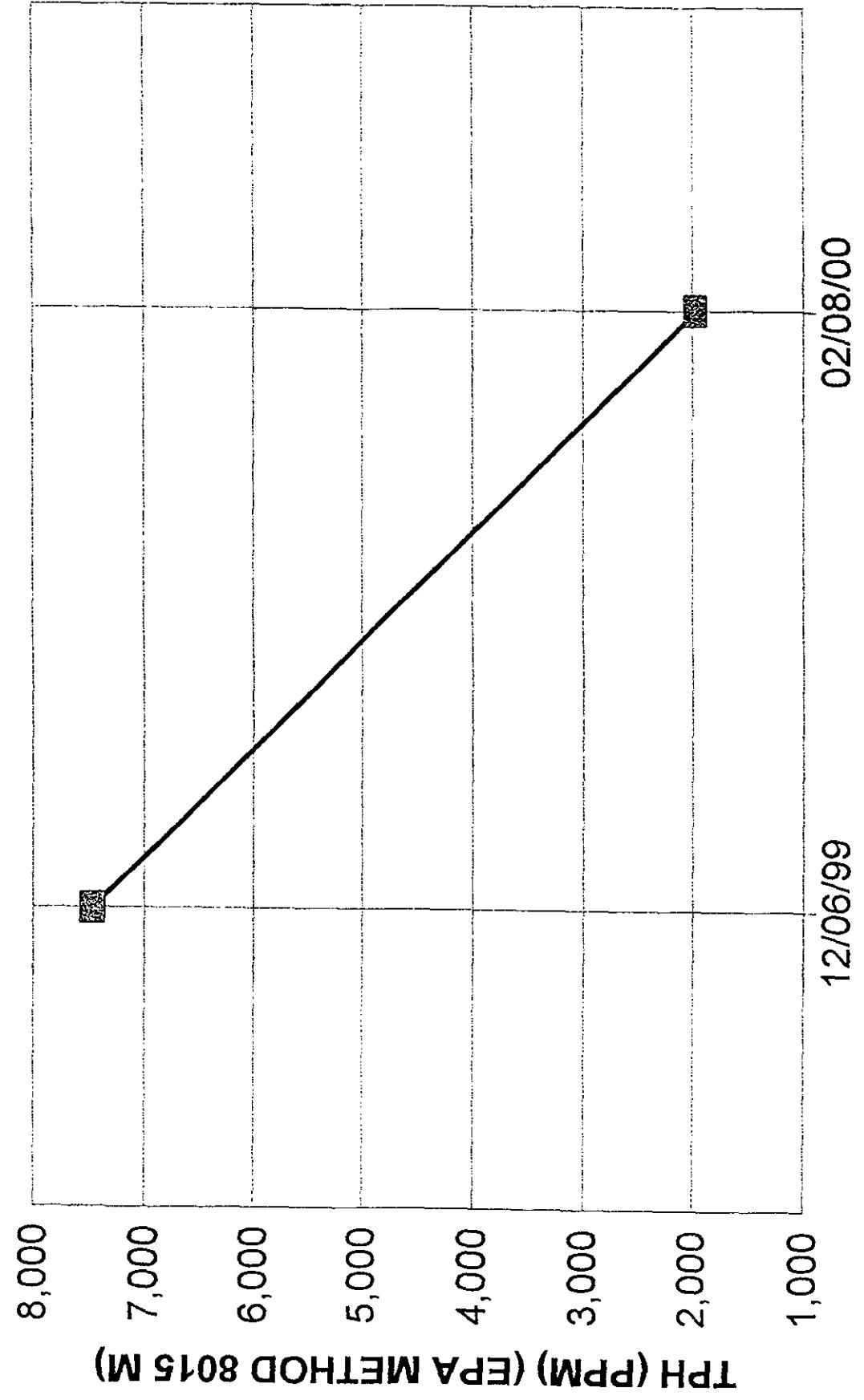
LF-59

TPH IN SOIL SB-1-1 (10-12')



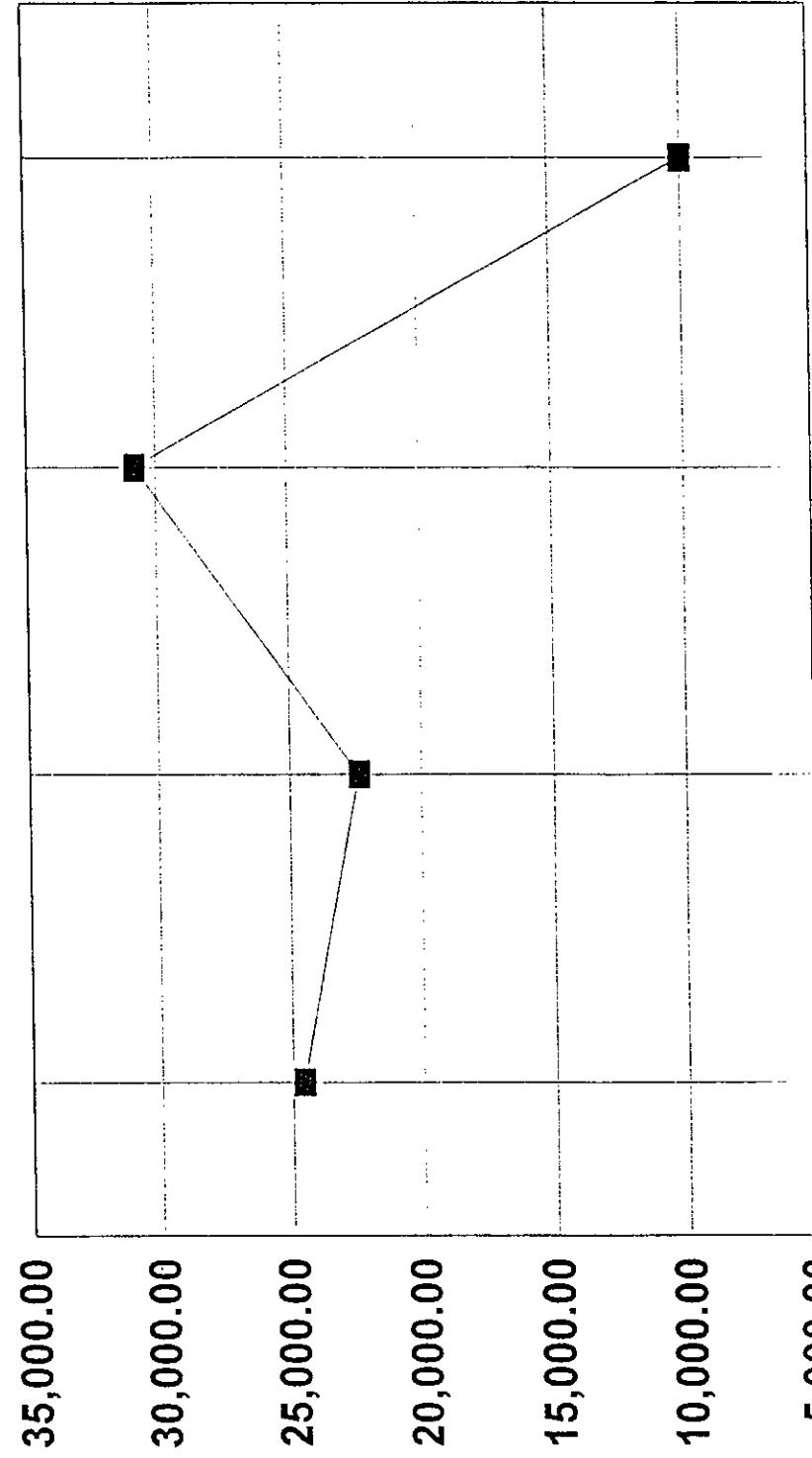
LF-59

TPH IN SOIL SB-1-1 (15-17")



LF-59

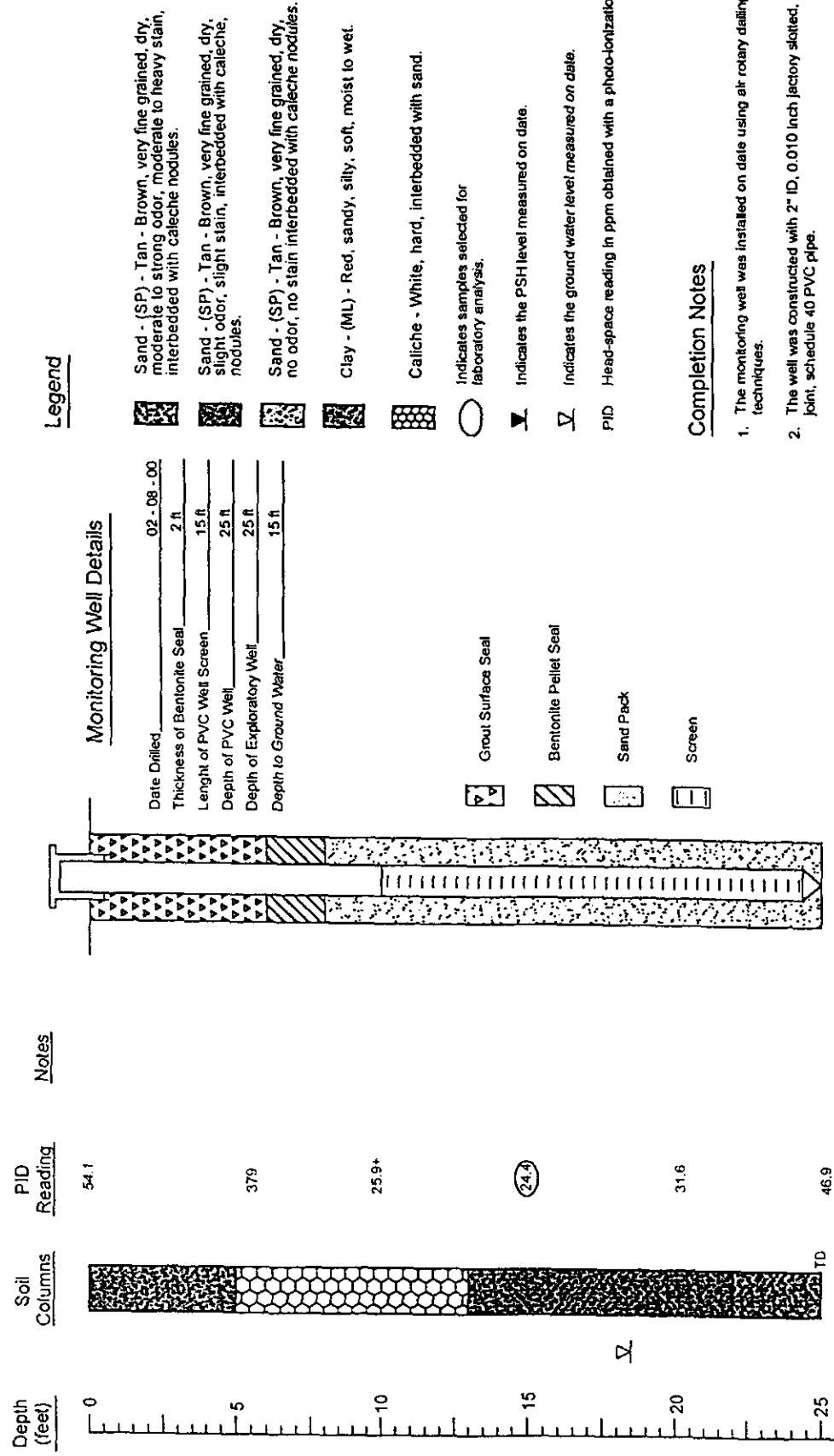
TPH IN SOIL SB-2-1 (0-2')



TPH (PPM) (EPA METHOD 8015 M)

APPENDIX B

Monitoring Well MW - 1



Boring Log And Monitoring Well Details

Monitoring Well - 1

EOTT Energy Corp. LF - 59 Laa County, NM

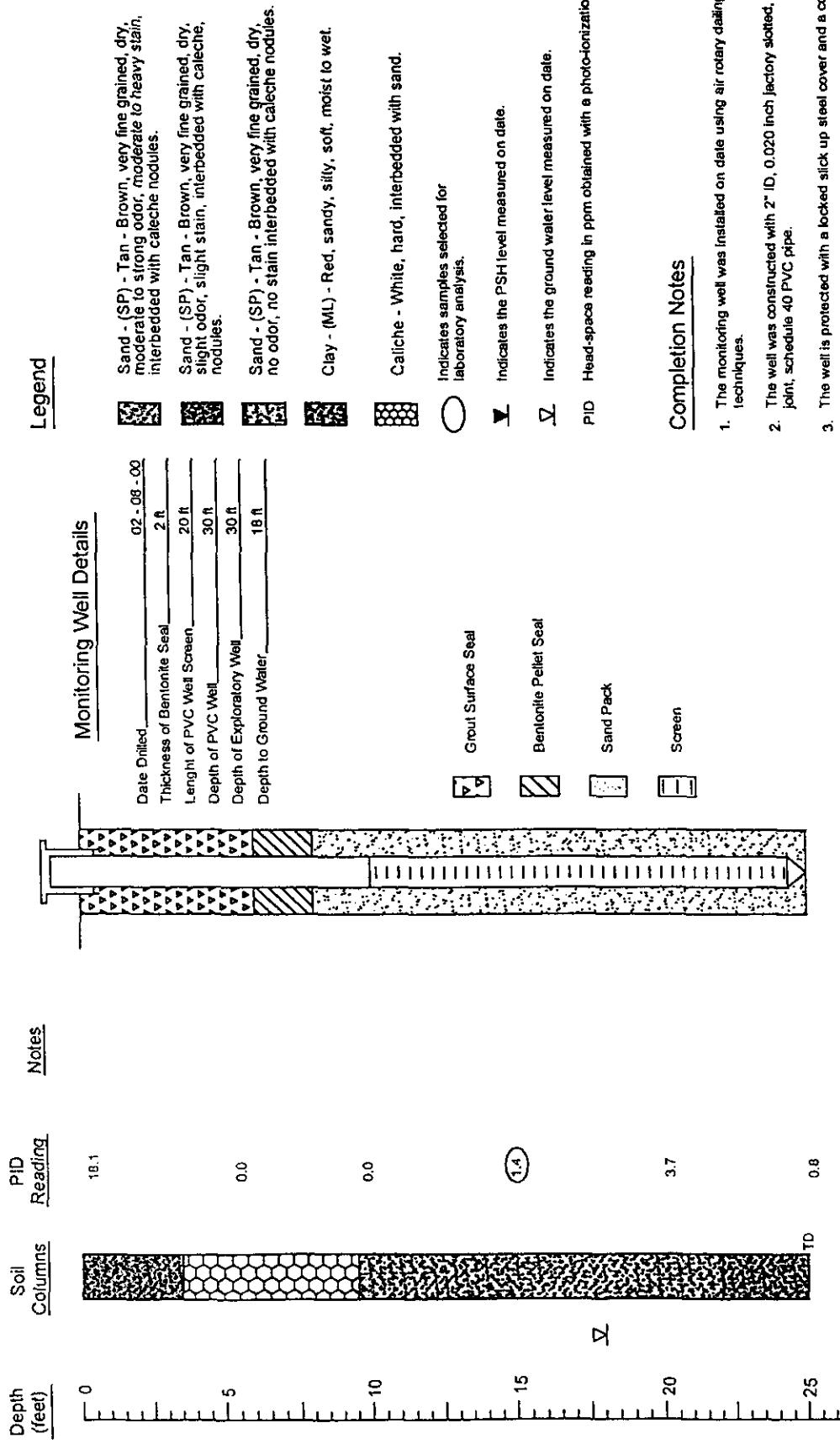
Environmental Technology

Group, Inc.

Scale NTS	Prep By RS	Checked By JF
February 18, 2000	EOTT Project # EOT 1012N	



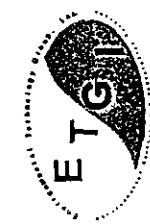
Monitoring Well MW - 2



Boring Log And Monitoring Well Details

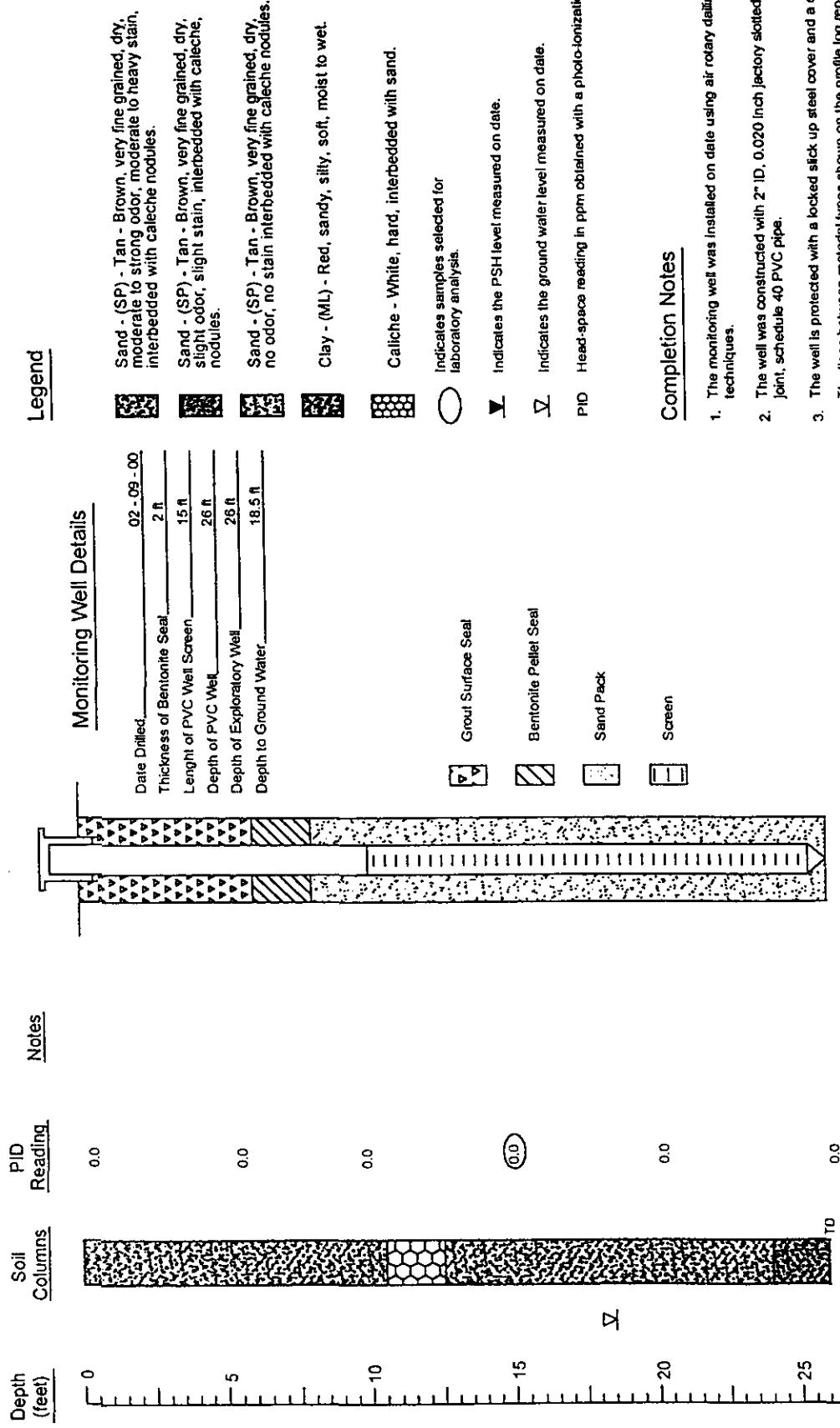
Monitoring Well - 2
Lea County, NM

**Environmental Technology
Group, Inc.**



Scale NTS Prep By: RS Checked By: JT
February 18, 2000 ETG Project # EOT 1012R

Monitoring Well MW - 3



Boring Log And Monitoring Well Details

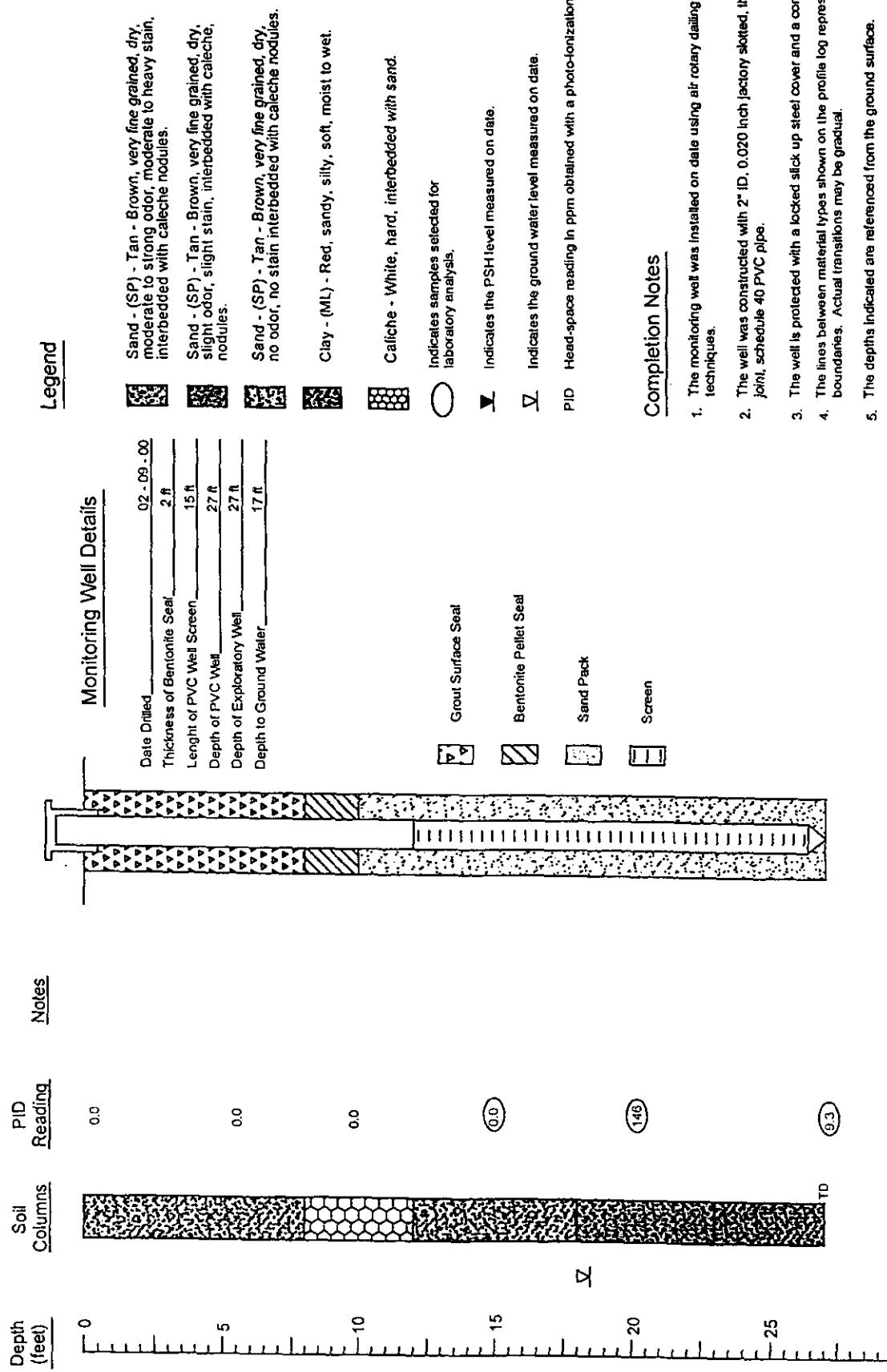
Monitoring Well - 3
EOTT Energy Corp. LF - 59 Lea County, NM

Environmental Technology Group, Inc.



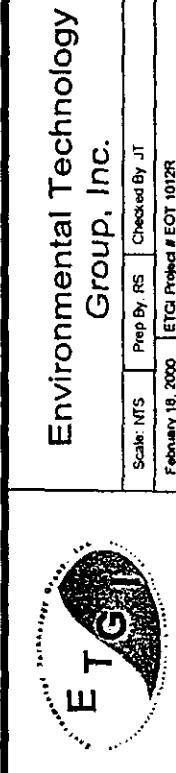
Scale: NTS Prep By RS Checked By JT
February 18, 2000 ETG Project # EOT-1012R

Monitoring Well MW - 4

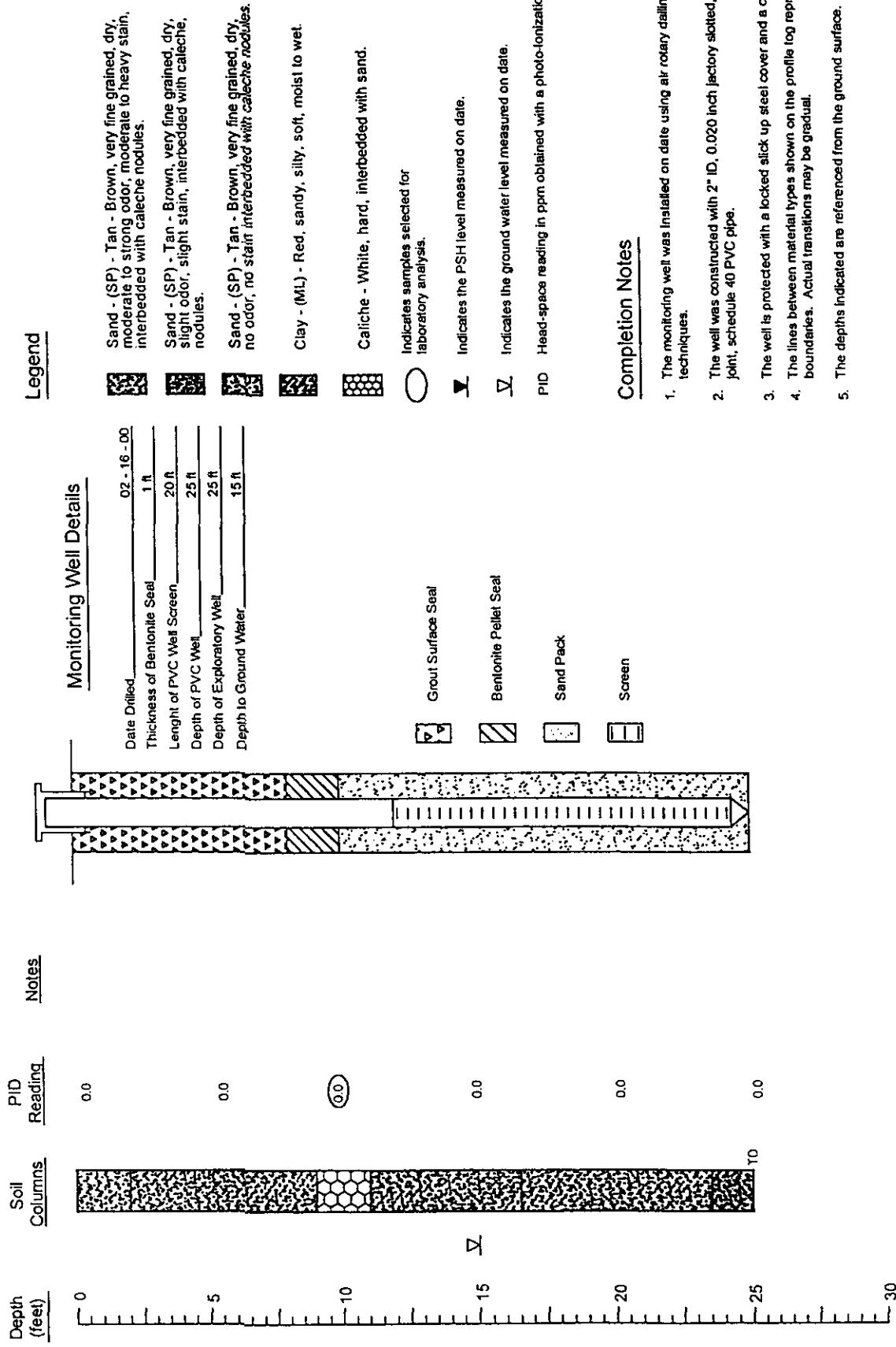


Boring Log And Monitoring Well Details

Monitoring Well - 4
EOTT Energy Corp. LF - 59 Lea County, NM



Monitoring Well MW - 5



Boring Log And Monitoring Well Details

Monitoring Well - 5
 LF - 59 Lea County, NM
 EOTT Energy Corp.

Environmental Technology
 Group, Inc.



Scale: NTS	Prep By: RS	Checked By: JT
February 18, 2000	EOTT Project # EOT 1012R	

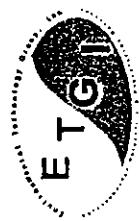
Soil Boring SB 1-1

Depth (feet)	Soil Columns	PID	Reading	Notes
0			1264	
5				Sand - (SP) - Reddish Brown, very fine grained, well sorted, dry to moist, fair stain, strong odor, interbedded with caliche nodules.
5				Sand - (SP) - White, very fine grained, well sorted, dry, no stain, slight odor, interbedded with caliche nodules.
5				Sand - (SP) - Tan, very fine grained, well sorted, dry, no stain, slight odor, interbedded with caliche nodules.
5				Clay - (ML) - Reddish brown, well sorted, moist, slight stain, slight odor, interbedded with caliche nodules.
5				Caliche - White, hard, interbedded with sand.
10			822	PID Head-space reading in ppm obtained with a photo-ionization detector. <input checked="" type="circle"/> Indicates samples selected for laboratory analysis.
10			1194	
15				

Soil Boring Details

Date Drilled 10/29/99
Plugged - Surface to TD with Bentonite
and hydrated with deionized water

Environmental Technology
Group, Inc.



Soil Boring Log Details

EOTT Energy Corp. LF - 59 Midland, TX

Soil Boring SB 1-1
Scale NTS Prep By RS Checked By JT
February 23, 2000 ETGI Project # EOT 1012R

Soil Boring SB 2-1

Depth (feet)	Soil Columns	PID Reading	Notes
0		1598	
5			
10		9.6	
15		14.5	

PID Head-space reading in ppm obtained with a photo-ionization detector.

○ Indicates samples selected for laboratory analysis.

Soil Boring Details

Date Drilled 10 / 29 / 99
Plugged - Surface to TD with Bentonite and hydrated with deionized water

Soil Boring Log Details

Soil Boring SB 2-1

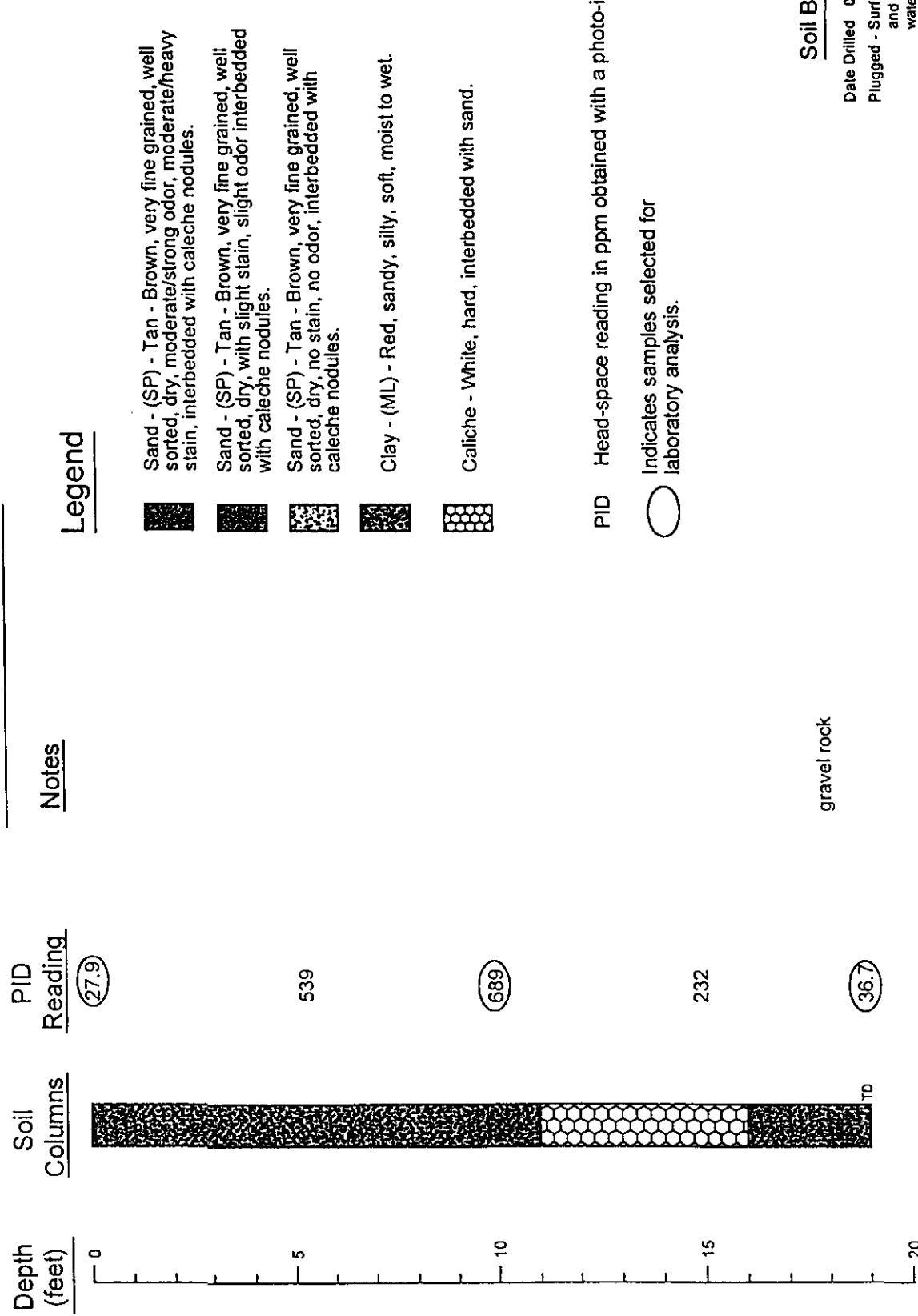
EOTT Energy Corp. LF - 59 Midland, TX

Environmental Technology Group, Inc.

Scale: NTS Prep By: RS Checked By: JT
February 23, 2000 EOT Project # EOT 1012R



Soil Boring SB - 1



Soil Boring Details

Date Drilled 02 / 08 / 00
 Plugged - Surface to TD with Bentonite and hydrated with deionized water

Environmental Technology Group, Inc.



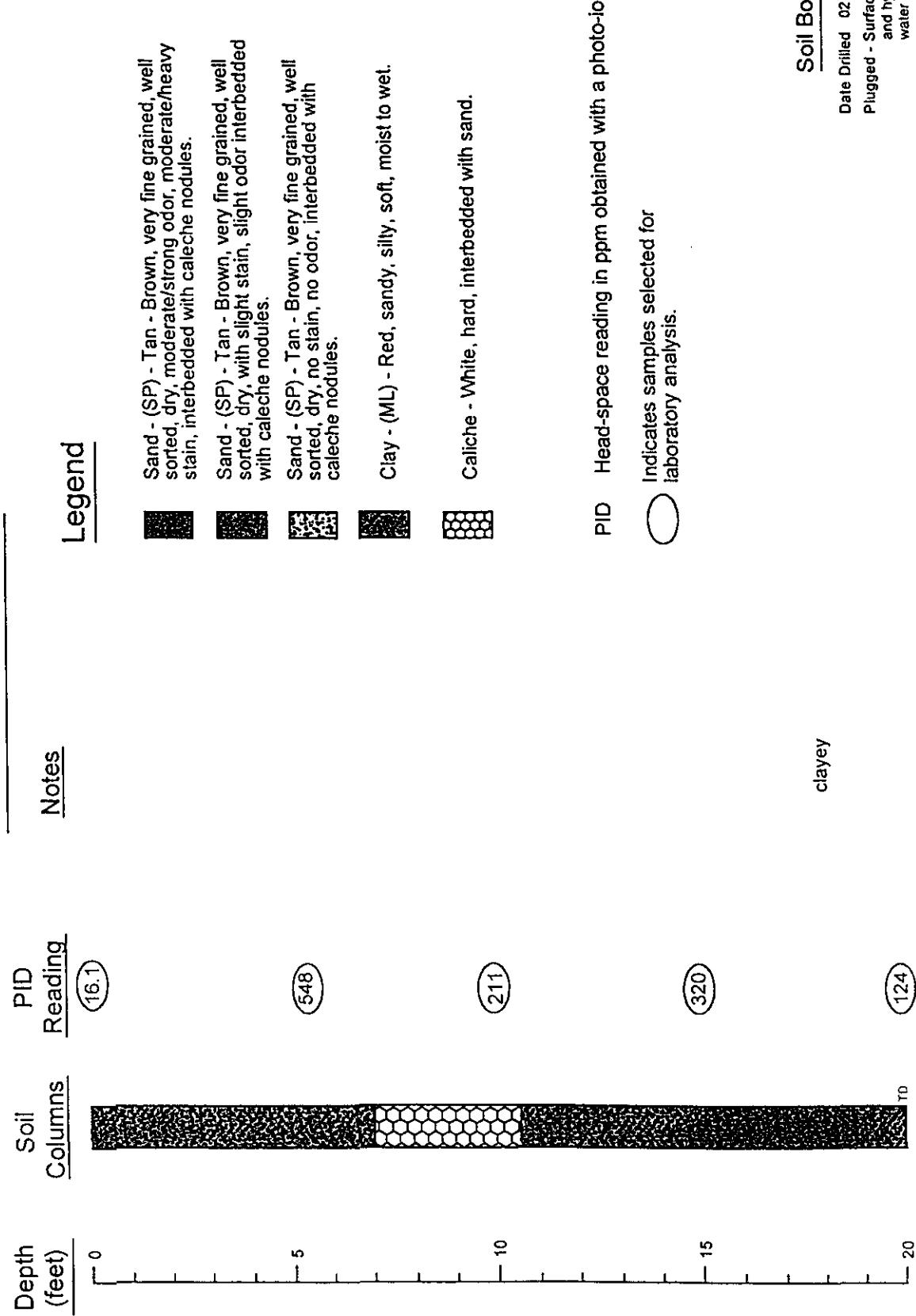
Soil Boring Log Details

Soil Boring SB - 1

EOTT Energy Corp. LF - 59 Midland, TX

Scal. NTS Prep. By RS Checked By JT
 February 21, 2000 ETG Printed # EOT 1012R

Soil Boring SB - 2



Soil Boring Details

Date Drilled 02 / 08 / 00
Plugged - Surface to TD with Bentonite
and hydrated with deionized water

Environmental Technology
Group, Inc.



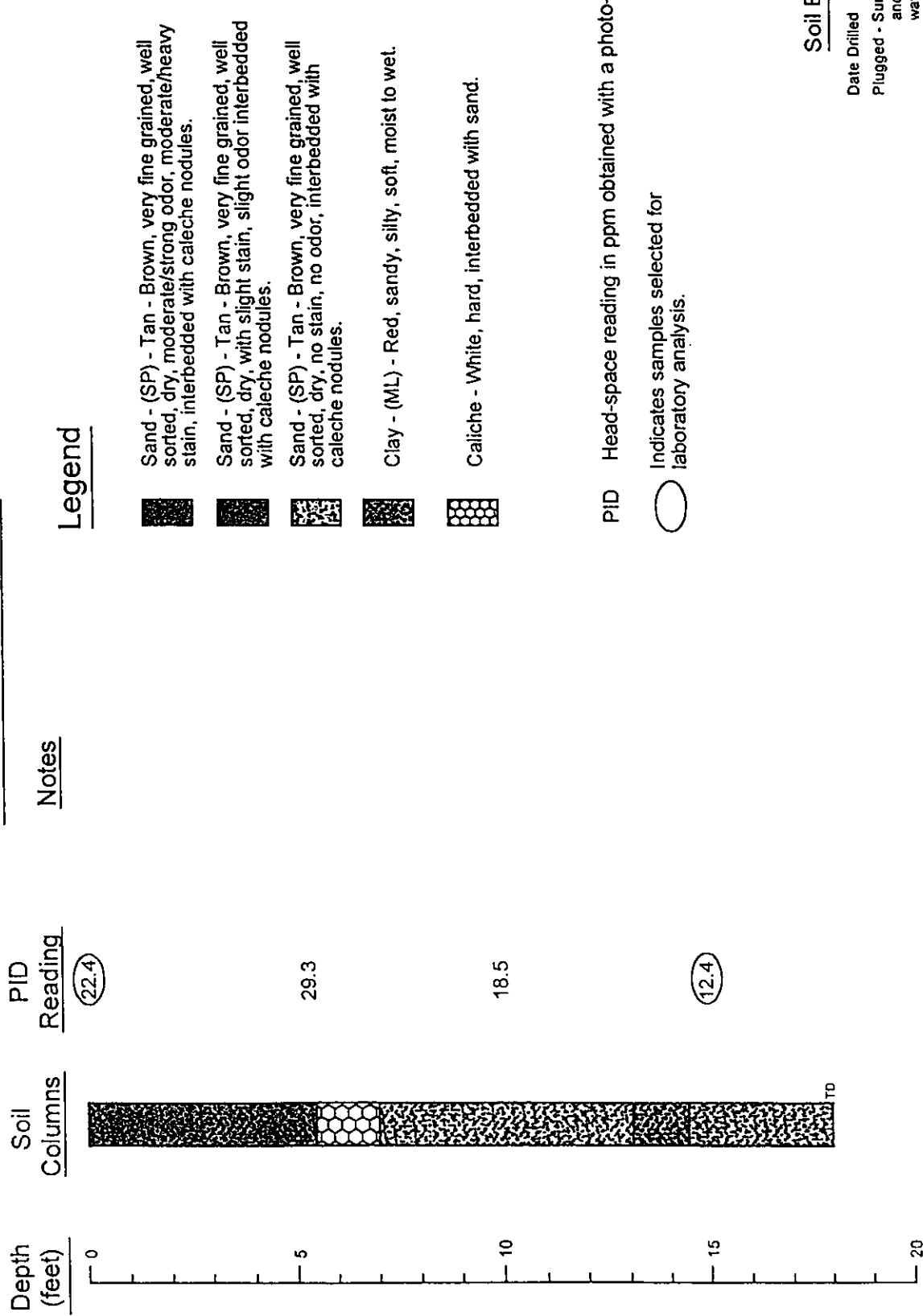
Soil Boring Log Details

Soil Boring SB - 2

EOTT Energy Corp. LF - 59 Midland, TX

Scale: NTS Prep By: RS Checked By: JT
February 21, 2000 ETG Project # EOT 1012R

Soil Boring SB - 3



Soil Boring Details

Date Drilled 02 / 08 / 00
Plugged - Surface to TD with Bentonite
and hydrated with deionized
water

Environmental Technology
Group, Inc.



Soil Boring Log Details
Soil Boring SB - 3

EOTT Energy Corp. LF - 59 Midland, TX

Scale: NTS Prep By RS Checked By JT
February 21, 2000 ETG Project # EOT 1012R

Soil Boring SB - 4

Depth (feet)	Soil Columns	PID Reading	Notes
0		(24.8)	
5			(291)
10			
15			
20			

- PID Head-space reading in ppm obtained with a photo-ionization detector.
- Indicates samples selected for laboratory analysis.

Soil Boring Details

Date Drilled 02 / 08 / 00
Plugged Surface to TD with Bentonite and hydrated with deionized water

Soil Boring Log Details

Soil Boring SB - 4

EOTT Energy Corp. LF - 59 Midland, TX



Environmental Technology
Group, Inc.

Scale: NTS Prep By: RS Checked By: JT
February 21, 2000 ETG Project # EOT 1012R

Soil Boring SB - 5

Depth
(feet)

0

5

10

15

20

Soil Columns	PID Reading	Notes
	402	



Sand - (SP) - Tan - Brown, very fine grained, well sorted, dry, moderate/strong odor, moderate/heavy stain, interbedded with caliche nodules.

Sand - (SP) - Tan - Brown, very fine grained, well sorted, dry, with slight stain, slight odor interbedded with caliche nodules.

Sand - (SP) - Tan - Brown, very fine grained, well sorted, dry, no stain, no odor, interbedded with caliche nodules.

Clay - (ML) - Red, sandy, silty, soft, moist to wet.

Caliche - White, hard, interbedded with sand.

PID Head-space reading in ppm obtained with a photo-ionization detector.

Indicates samples selected for laboratory analysis.

(14.4)

TD 8.5

20

Soil Boring Details

Date Drilled 02/08/00
Plugged - Surface to TD with Bentonite and hydrated with deionized water

Soil Boring Log Details

Soil Boring SB - 5
EOTT Energy Corp. LF - 59 Midland, TX



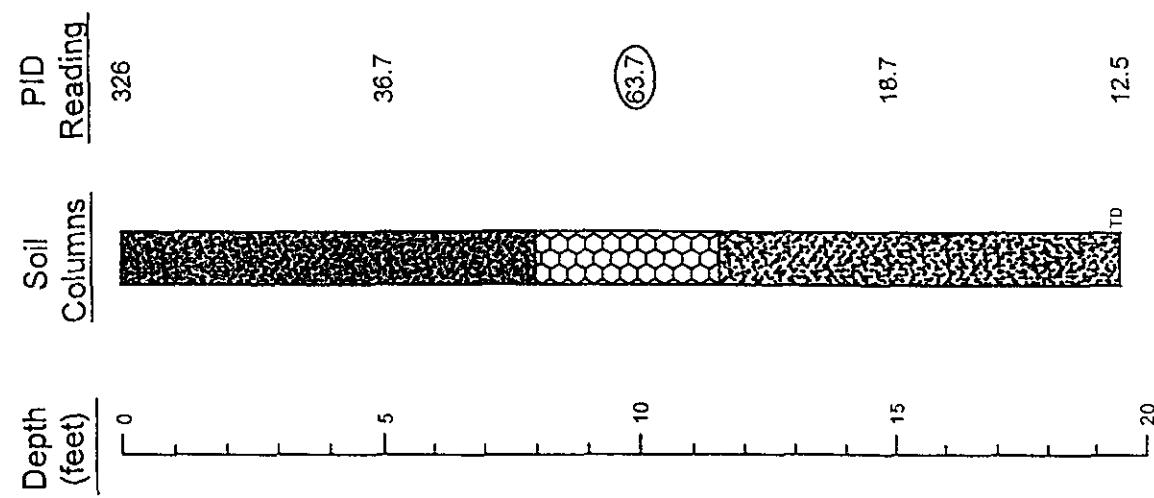
Environmental Technology Group, Inc.

Scale: NTS Prep By: RS Checked By: JT
February 21, 2000 ETG Project # EOT 002R

Soil Boring SB - 6

Depth (feet)	Soil Columns	PID Reading	Notes	Legend
0				
5		93.5		
10		50.4		
15		18.1		
20		14.4		
				Soil Boring Details
				Date Drilled 02 / 08 / 00
				Plugged - Surface to TD with Bentonite and hydrated with deionized water
				Environmental Technology Group, Inc.
				Scale: NTS Prep By: RS Checked By: JT
				February 21, 2000 EOT Project # EOT 1012R
				
				Soil Boring Log Details
				Soil Boring SB - 6
				EOTT Energy Corp. LF - 59 Midland, TX

Soil Boring SB - 7



Legend

- [Solid black square] Sand - (SP) - Tan - Brown, very fine grained, well sorted, dry, moderate/strong odor, moderate/heavy stain, interbedded with caliche nodules.
- [Hatched square] Sand - (SP) - Tan - Brown, very fine grained, well sorted, dry, with slight stain, slight odor interbedded with caliche nodules.
- [Cross-hatched square] Sand - (SP) - Tan - Brown, very fine grained, well sorted, dry, no stain, no odor, interbedded with caliche nodules.
- [White square with black dots] Clay - (ML) - Red, sandy, silty, soft, moist to wet.
- [White square with black circles] Caliche - White, hard, interbedded with sand.

PID Head-space reading in ppm obtained with a photo-ionization detector.

Indicates samples selected for laboratory analysis.

Soil Boring Details

Date Drilled 02 / 08 / 00
Plugged - Surface to TD with Bentonite and hydrated with deionized water

Soil Boring Log Details

Soil Boring SB - 7
EOTT Energy Corp. LF - 59 Midland, TX



Scale: NTS	Prep By: RS	Checked By: JT
February 21, 2000	ETG Project # EOT 1012R	

Soil Boring SB - 8

Depth (feet)	Soil Columns	PID Reading	Notes
0		447	
5		280	
10			(79.2)
15			
20		22.7	TD

Legend

- [Solid black square] Sand - (SP) - Tan - Brown, very fine grained, well sorted, dry, moderate/strong odor, moderate/heavy stain, interbedded with caliche nodules.
- [Hatched square] Sand - (SP) - Tan - Brown, very fine grained, well sorted, dry, with slight stain, slight odor, interbedded with caliche nodules.
- [Cross-hatched square] Sand - (SP) - Tan - Brown, very fine grained, well sorted, dry, no stain, no odor, interbedded with caliche nodules.
- [White square with black dots] Clay - (ML) - Red, sandy, silty, soft, moist to wet.
- [White square with black circles] Caliche - White, hard, interbedded with sand.

PID Head-space reading in ppm obtained with a photo-ionization detector.

Indicates samples selected for laboratory analysis.

Soil Boring Details

Date Drilled 02/08/00
Plugged - Surface to TD with Bentonite and hydrated with deionized water

Environmental Technology Group, Inc.



Soil Boring Log Details

Soil Boring SB - 8

EOTT Energy Corp. LF - 59 Midland, TX

Scale NTS	Prep By: RS	Checked By: JT
February 21, 2000	ETG Proj# EOT 1012R	

APPENDIX C

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

ETGI
ATTN: MR. JESSE TAYLOR
P.O. BOX 4845
MIDLAND, TEXAS 79704
FAX: 505-392-3760

Sample Type: Soil
Sample Condition: Intact/Iced
Project #: LF-59
Project Name: None Given
Project Location: Monument, N.M.

FAX: 915-520-4310 Sampling Date: 10/29/99
Receiving Date: 10/30/99
Analysis Date: 11/02/99

ELT#	FIELD CODE	GRO	DRO
		C6-C10 mg/kg	>C10-C25 mg/kg
21160	SB 1-1- (1')	6680	20263
21161	SB 1-1- (5-7')	7645	14560
21162	SB 1-1- (10-12')	946	3455
21163	SB 1-1- (15'17')	2677	4781
21164	SB 2-1- (1')	6805	17789
21165	SB 2-1- (5-7')	12	101
21166	SB 2-1- (10-12')	<10	20
21167	SB 2-1- (15')	<10	<10

% INSTRUMENT ACCURACY	110	100
% EXTRACTION ACCURACY	109	100
BLANK	<10	<10

Methods: EPA SW 846-8015M GRO/DRO

Roland K. Tuttle
Roland K. Tuttle

11-3-99
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

ETGI
 ATTN: MR. JESSE TAYLOR
 P.O. BOX 4845
 MIDLAND, TEXAS 79704
 FAX: 505-392-3760

Sample Type: Soil
 Sample Condition: Intact
 Project #: LF 59
 Project Name: None Given
 Project Location: Monument, N.M.

Sampling Date: 10/29/99
 Receiving Date: 10/30/99
 Analysis Date: 11/02-11/03/99

ELTA#	FIELD CODE	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYLBENZENE (mg/kg)	m,p-XYLENE (mg/kg)	<i>o</i> -XYLENE (mg/kg)
21160	SB 1-1- (1')	<0.200	40.0	35.7	158	63.8
21161	SB 1-1- (5-7')	1.99	25.8	40.6	171	66.4
21162	SB 1-1- (10-12')	<0.100	3.11	4.36	15.71	6.65
21163	SB 1-1- (15'17')	2.23	14.4	15.3	61.1	20.7
21164	SB 2-1- (1')	1.45	30.9	33.8	143	49.2
21165	SB 2-1- (5-7')	<0.100	<0.100	<0.100	0.227	<0.100
21166	SB 2-1- (10-12')	<0.100	<0.100	<0.100	0.153	<0.100
21167	SB 2-1- (15')	<0.100	<0.100	<0.100	0.132	<0.100
<hr/>						
% IA		85	91	91	90	90
% EA*		*	*	*	*	*
BLANK		<0.100	<0.100	<0.100	<0.100	<0.100

*Note: Poor recovery due to elevated hydrocarbon levels

METHODS: SW 846-8021,5030

Roland K. Tuttle
 Roland K. Tuttle

11-3-99
 Date

ENVIRONMENTAL LAB OF INC.

"Don't Treat Your Soil Like Dirt!"

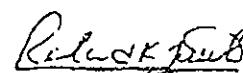
ENVIRONMENTAL TECHNOLOGY GROUP, INC.
 ATTN: MR. JESSE TAYLOR
 P.O. BOX 4845
 MIDLAND, TEXAS 79704
 FAX: 505-392-3780

Sample Type: Soil
 Sample Condition: Intact/loosened
 Project #: EOT1012R
 Project Name: LF-59
 Project Location: Monument, N.M.

Sampling Date: 02/08/00
 Receiving Date: 02/10/00
 Analysis Date: 02/11/00

ELT#	FIELD CODE	GRO ORO	
		OS-C10 mg/kg	>C10-C28 mg/kg
23449	SB-1 (surface)	185	14184
23450	SB-1 (10')	62	725
23451	SB-2 (Surface)	765	16530
23452	SB-2 (10')	65	1153
23453	SB-2 (15')	225	1747
23454	SB-2 (20')	<10	207
23455	SB-2 (5')	313	1552
23456	SB-3 (Surface)	<10	1539
23457	SB-3 (15')	<10	70
23458	SB-4 (Surface)	222	24742
23459	SB-4 (5')	828	3321
23460	SB-4 (15')	<10	89
23461	SB-5 (Surface)	3937	19261
23462	SB-5 (15')	<10	81
23463	SB-6 (Surface)	5808	25062
23464	SB-6 (5')	<10	171
23465	SB-6 (10')	<10	41
23466	SB-6 (15')	<10	12
23467	SB-6 (19.5')	<10	<10
23468	SB-7 (Surface)	3725	22199
23469	SB-7 (10')	<10	148
23470	SB-8 (Surface)	5121	23320
 %INSTRUMENT ACCURACY		114	107
% EXTRACTION ACCURACY		102	96
BLANK		<10	<10

Methods: EPA SW 846-8015M GRO/ORO


 Roland K. Tuttle

2-12-00
 Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

ENVIRONMENTAL TECHNOLOGY GROUP, INC.
 ATTN: MR JESSE TAYLOR
 P.O. BOX 4845
 MIDLAND, TEXAS 79704
 FAX: 505-392-9780

Sample Type: Soil
 Sample Condition: Intact/loose
 Project #: EOTI012R
 Project Name: LF-59
 Project Location: Monument, N.M.

Sampling Date: See Below
 Receiving Date: 02/10/00
 Analysis Date: 02/11/00

ELT#	FIELD CODE	GRO	DRO	Sampling Date
		C6-C10	>C10-C28	
23471	SB-8 (15)	1528	5033	02/08/00
23472	MW-1 (Surface)	<10	151	02/08/00
23473	MW-1 (15)	<10	17	02/08/00
23474	MW-2 (15)	<10	<10	02/08/00
23475	MW-3 (15)	<10	<10	02/08/00
23476	MW-4 (15)	106	560	02/08/00
23477	MW-4 (20)	<10	<10	02/08/00

%INSTRUMENT ACCURACY	104	101
% EXTRACTION ACCURACY	104	108
BLANK	<10	<10

Methods: EPA SW 846-8015M GRO/DRO

Roland K. Turbe
 Roland K. Turbe

2-12-00
 Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

ENVIRONMENTAL TECHNOLOGY GROUP, INC.
ATTN: MR. JESSE TAYLOR
P.O. BOX 4845
MIDLAND, TEXAS 79704
FAX: 505-392-3760

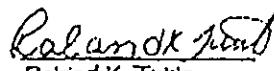
Sample Type: Soil
Sample Condition: Intact/Iced
Project #: EOT1012R
Project Name: LF-59
Project Location: Monument, N.M.

Sampling Date: 02/14/00
Receiving Date: 02/15/00
Analysis Date: 02/16/00

ELT#	FIELD CODE	GRO	DRO
		C8-C10	>C10-C28
		mg/kg	mg/kg
23561	Surface 1-1	2683	13782
23582	Surface 2-1	7289	29543
23563	SB 2-1	463	9556

%INSTRUMENT ACCURACY	100	108
% EXTRACTION ACCURACY	106	109
BLANK	<10	<10

Methods: EPA SW 846-8015M GRO/DRO


Roland K. Tuttle

2-17-00
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

ENVIRONMENTAL TECHNOLOGY GROUP, INC.

ATTN: MR. JESSE TAYLOR
P.O. BOX 4845
MIDLAND, TEXAS 79704
FAX: 505-392-3780

Sample Type: Soil
Sample Condition: Intact/Iced
Project #: EOT 1012R
Project Name: LF-59
Project Location: Monument, N.M.

Sampling Date: 02/14/00
Receiving Date: 02/15/00
Analysis Date: 02/15/00

ELTN	FIELD CODE	BENZENE mg/kg	TOLUENE mg/kg	ETHYLBENZENE mg/kg	m,p-XYLENE mg/kg	o-XYLENE mg/kg
23561	Surface 1-1	<0.100	9.71	9.29	43.8	20.7
23562	Surface 2-1	<0.100	<0.100	9.88	58.1	62.4
23563	SB 2-1	<0.100	<0.100	0.786	3.22	3.08
% IA		111	104	103	107	104
% EA		106	103	100	102	100
BLANK		<0.100	<0.100	<0.100	<0.100	<0.100

METHODS: SW 846-8021B.5030

Roland K. Tuttle
Roland K. Tuttle

2-16-00
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

ETGI
ATTN: MR. JESSE TAYLOR
P.O. BOX 4845
MIDLAND, TEXAS 79704
FAX: 505-392-3760

Sample Type: Soil
Sample Condition: Intact
Project #: LF 59
Project Name: None Given
Project Location: Monument, N.M.

Sampling Date: 10/29/99
Receiving Date: 10/30/99
Analysis Date: 11/02-11/03/99

ELTB	FIELD CODE	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYLBENZENE (mg/kg)	m,p-XYLENE (mg/kg)	<i>o</i> -XYLENE (mg/kg)
21160	SB 1-1- (1')	<0.200	40.0	35.7	158	63.8
21161	SB 1-1- (5-7')	1.99	25.8	40.6	171	66.4
21162	SB 1-1- (10-12')	<0.100	3.11	4.36	15.71	6.65
21163	SB 1-1- (15'17')	2.23	14.4	15.3	61.1	20.7
21164	SB 2-1- (1')	1.45	30.9	33.8	143	49.2
21165	SB 2-1- (5-7')	<0.100	<0.100	<0.100	0.227	<0.100
21166	SB 2-1- (10-12')	<0.100	<0.100	<0.100	0.153	<0.100
21167	SB 2-1- (15')	<0.100	<0.100	<0.100	0.132	<0.100
% IA		95	91	91	90	90
% EA*		*	*	*	*	*
BLANK		<0.100	<0.100	<0.100	<0.100	<0.100

*Note: Poor recovery due to elevated hydrocarbon levels

METHODS: SW 846-8021,5030

Raland K. Tuttle
Raland K. Tuttle

11-3-99
Date

Environmental Lab of Texas, Inc. 12600 West 1-20 East Odessa, Texas 79763
 (915) 563-1800 FAX (915) 563-5713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

File #:

Phone #: 915 664 9166
 FAX #: 915 563-5710

ANALYSIS REQUEST

Project Manager: Tesse Taylor

Company Name & Address: PT&T

P.O. Box 4000

Project #: 201012A

Project Location: MUNICIPAL BM

Project Name: LFB-SG

Sampler Signature: Laura Lane

LAS# (LAB USE ONLY)	FIELD CODE	MATERIAL	PRESERVATIVE		SAMPLE TIME
			METHOD	DATE	
23501	SURFACE 1-1	1 gal	X	1/14	1450X
23502	SURFACE 2-1	1 gal	X	1/14	1515Y
23503	SURFACE 2-1	1 gal	X	1/14	1500Y

# CONTAINERS	VOLUME/MATERIAL	WATER	SLUDGE		TIME
			SCIL	AIR	
1	1000				
1	1000				
1	1000				

Requester/Editor	Date	Time	Received by:	REMARKS
<u>Laura Lane</u>	2/15/00	1100		
Requester/Editor	Date	Time	Received by:	
<u>Shane Jones</u>	2/15/00	1155	<u>Q manager</u>	Received by laboratory:
Requester/Editor	Date	Time	Received by:	Entered in system:

Analyst Name: K. Burton

Entered: Laura Lane Event: 2010