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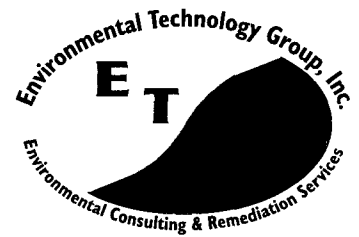
REPORTS

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PROGRESS

1R-280

PROGRESS REPORT



Jimmy B. Cooper Investigation Site
Monument (Lea County), New Mexico

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Environmental Bureau
Oil Conservation Division

Prepared for:

EOTT Energy Pipeline, L.P.
5805 East Highway 80
Midland, Texas 79701

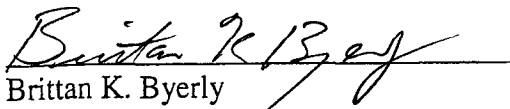
EOTT Leak Number 2000-10755

Prepared by:

ENVIRONMENTAL TECHNOLOGY GROUP, INC.
4600 West Wall
Midland, Texas 79703

ETGI PROJECT # EOT2074C

May 2002


Brittan K. Byerly
Vice President of Operations

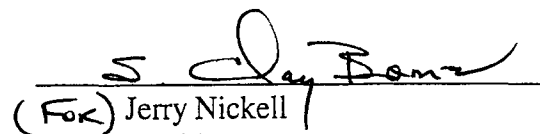

(For) Jerry Nickell
President



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1.0 INTRODUCTION

Environmental Technology Group, Inc. (ETGI) is pleased to submit this Progress Report for the Jimmy B. Cooper site. This report presents the results of the initial site investigation and a summary of field activities and data collected to date. The Jimmy B. Cooper investigation is located southwest of Monument, New Mexico (please see Figure 1).

Investigation activities began as a response to crude oil in the Jimmy B. Cooper domestic well. The purpose of this investigation is to determine the source or sources of crude oil found in the Jimmy B. Cooper domestic well. The investigation is located on ranchland and residential property owned by Mr. Jimmy B. Cooper, ranchland owned by Mr. Red Byrd, and ranchland owned by the State of New Mexico. Several former domestic wells, an irrigation well and a windmill lie within or just outside the investigation area. This document was prepared for the sole use of EOTT.

1.1 Purpose of Report

The purpose of this report is to (1) present the results of the site investigation, and (2) present initial findings based upon currently available data. The site assessment to date evaluates the potential sources located in and around the Phase Separated Hydrocarbon (PSH) plume.

1.2 Site Description and Background Information

The site is located southwest of Monument, New Mexico. The investigation began as an investigation of crude oil in the Jimmy B. Cooper domestic well. The area investigated is ranchland, in an open-air area that has a restricted entrance, with dirt or caliche paved roads. There are several domestic and agricultural water wells located within one half mile of the release investigation area.

A total of 49 monitor wells have been installed in an effort to trace the PSH plume to its origin or origins. The known extent of crude oil is oriented north-south and extends approximately one half mile. The plume at its greatest east-west width is approximately 500 feet. The local groundwater gradient varies over the investigation area from south to southwest. A thin mantle of Holocene eolian material overlies caliche, which varies in thickness and induration over the investigation area. Below the caliche, remnant Ogallala Formation sands and gravel extend to a depth of approximately 16-25 feet Below the Ground Surface (bgs). Below the Ogallala Formation, Triassic Dockum Group redbeds form an aquitard. Although not fully penetrated during this investigation, the thickness of redbeds in the area of the investigation is believed to be in excess of 100 feet.

2.0 SUMMARY OF FIELD ACTIVITIES

Drilling and installation of monitor wells began on April 23, 2001. Monitor wells were aligned east-west to intersect the trend of PSH (90 degrees to the groundwater gradient). Originally, the goal was to bracket the PSH with monitor wells containing no PSH on each side. After placing the first 17 monitor wells, the spacing interval between some of the original 17 wells was reduced by placing additional wells between existing wells. A special effort was made to identify or determine the existence of preferential groundwater flow paths during the selection of monitor well locations. Upon discovery of crude oil on the groundwater table north of the east-west caliche road located north of the Cooper residence, monitor wells were leap-frogged to the north until PSH was lost. Monitor wells were then placed along the east and west of the trend of PSH to define the width of the plume.

The groundwater gradient indicates that the PSH will move south and southwest from a release point.

3.0 REVIEW OF DATA

A review of the data collected during the initial and following site assessment activities suggests that multiple (more than one) release points contributed to the crude oil plume identified in the Jimmy B. Cooper investigation. To date, no data implicates the Bob Durham (TNM LF 2000-7) or R.L. Rodgers (TNM-1999-87) releases as contributors to the Jimmy B. Cooper PSH plume. Monitor wells with relatively small spatial separation have been placed or were already in place between the known plumes associated with the Durham and Rodgers releases and the PSH plume identified with the Jimmy B. Cooper property. Down gradient monitor wells associated with the Durham and Rodgers releases also increase the evidence that these two particular releases should not be implicated. Additional known releases as the LF-59 (TNM-LF-1999-59 and Monument 10" Sour (2000-10655)) are not believed to be associated with the Jimmy B. Cooper PSH plume. The groundwater gradient flow direction and the spatial separation of the two releases eliminate these releases as potential contributors to the Jimmy B. Cooper plume.

The former Amerada Hess tank battery and Rice Operating saltwater disposal line were investigated during the early portion of the Jimmy B. Cooper investigation. Monitor wells in these areas found no indication that the former Hess tank battery location or Rice Operating saltwater line had any association with the PSH plume associated with the Jimmy B. Cooper property.

The PSH plume cannot be attributed with an absolute certainty to any individual or multiple release points based upon current monitor well, soil analytical and groundwater analytical data. No shallow indications of a crude oil release have been analytically or visually noted during the investigation. Based upon the distribution of PSH on the groundwater, there appears to be two bodies of product, but this is not an absolute with current data. There is

anecdotal evidence of heavy groundwater use by the Jimmy B. Cooper property in the past, and given the relatively thin saturated thickness of groundwater in the area, this could serve to move the crude oil plume substantially.

Historic and current analysis of crude oil samples obtained from groundwater monitor and domestic wells has been conducted in order to gain provenance information on the crude oil. The production fields and intervals in the area of Monument and trans-area pipelines crossing the Monument area can carry different crude oils that may yield valuable information to include or exclude individual sources from the investigation. Current data do not allow for determination of potential sources based on fingerprint analyses to be made at this time.

4.0 RECOMMENDATIONS

Recommendations at the site are as follows:

- Continue additional investigation as targets are identified through aerial photographs or anecdotal information.
- Continue groundwater sampling and PSH fingerprinting to gather additional information on contaminant movement and origins

5.0 LIMITATIONS

ETGI has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. ETGI 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. ETGI has prepared this report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. ETGI 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, with no warranty implied.

This report has been prepared for the benefit of EOTT. The information contained in this report including all exhibits and attachments may not be used by any other party without the express written consent of ETGI and/or EOTT.

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5.0 Distribution

Copies 1 and 2 to: Randy Bayliss, P.E.
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Copy 3 to: Cutty Cunningham
Enron Transportation Services Company
P.O. Box 1188
Houston, Texas 77251-1188

Copy 4 to: Mike Kelly
EOTT Energy Corporation
P.O. Box 4666
Houston, Texas 77210-4666

Copy 5 to: Wayne Brunette
Enron Transportation Services Company
P.O. Box 1660
Midland, Texas 79702

Copy 6 to: Environmental Technology Group, Inc.
4600 West Wall Street
Midland, Texas 79703

COPY # 2

FIGURES

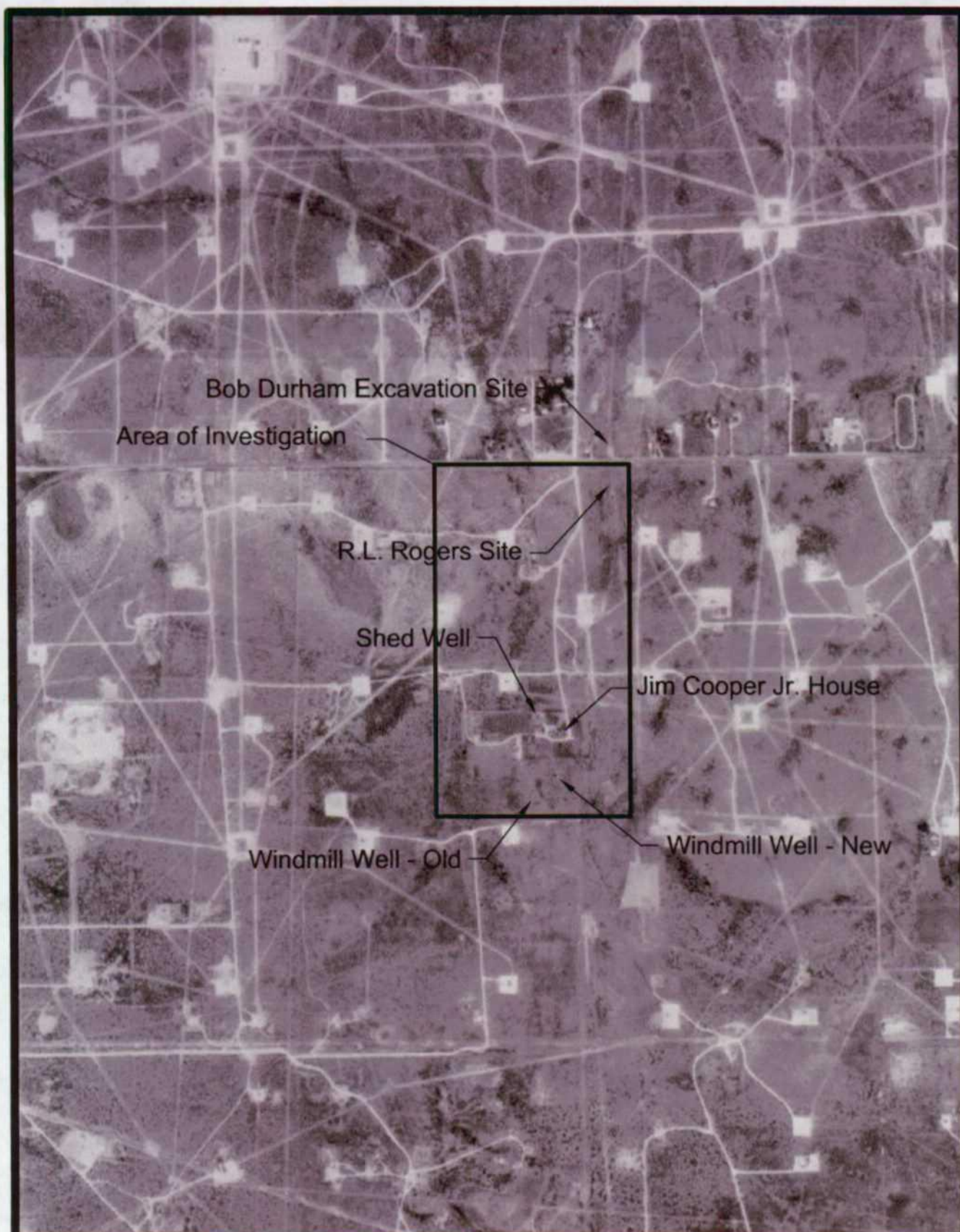
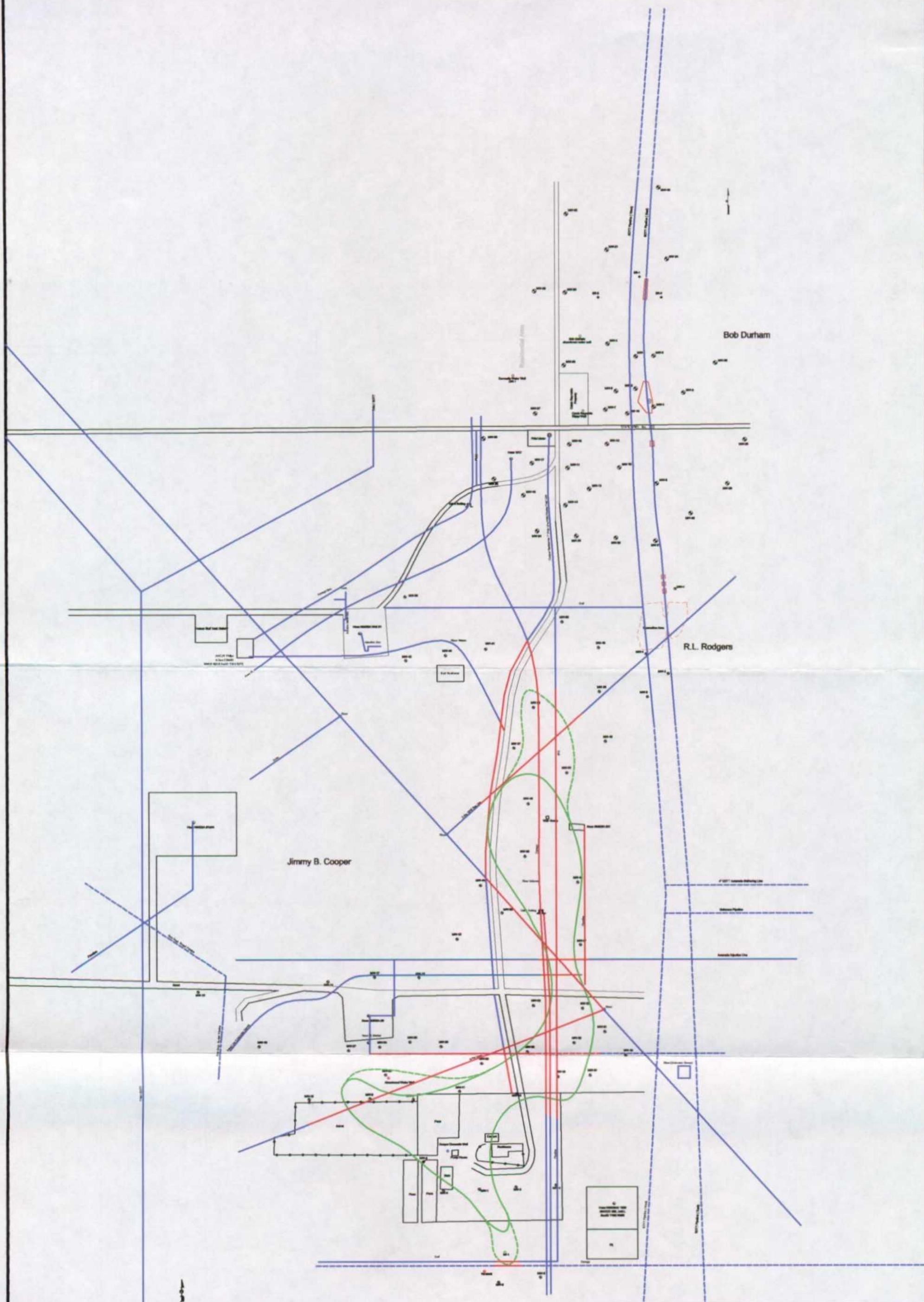


Figure 1
Aerial Photo

EOTT Energy Corp.
Jim B. Cooper
Lea County, NM

Environmental Technology
Group, Inc.

Scale: NTS	Prep By: JCU	Checked By: KD
March 11, 2001	ETGI Project #: EOT2074C	



LEGEND:

- Abandoned Injection Well Location
- Wellhead Location
- Abandoned Water Well Location
- Domestic Well Location
- Monitor Well Location
- Force
- Areas Impacted with PSI at Time of Well Placement
- Estimated PSI Distribution as of December 13th, 2001
- Pipeline
- Pipeline Located Over or Near PSI Plane

300 150 0 150 300
Distance in Feet

Figure 5
Potential Source Map
EOTT Energy Pipeline, LP
Jimmy Cooper Jr.
Lea County, NM



Environmental Technology Group, Inc.
Scale: 1" = 300' Prep By: JDU Checked By: BBO
May 2, 2002 ETOI Project # EOT2014C

TABLES

Table 1

CONCENTRATIONS OF TPH & BTEX IN GROUNDWATER

EOTT Energy Corporation
 Jimmie Cooper
 Monument, New Mexico
 ETGI Project #EOT2074C

All concentrations are in mg/L

SAMPLE DATE	SAMPLE LOCATION	EPA SW 846-8015M		SW 846-8260B					
		GRO	DRO	BENZENE	TOLUENE	ETHYL-BENZENE	M,P-XYLENES	O-XYLENES	BTEX
04/30/01	MW- 1			<0.005	<0.005	<0.005	0.010	0.005	0.015
04/30/01				<0.005	<0.005	<0.005	<0.005		<0.005
08/10/01	MW-2	<0.25	<5	0.0077	<0.001	0.00168	0.00213	<0.001	0.01151
12/14/01		<0.5	3.27	0.004	<0.001	<0.001	<0.001	<0.001	0.004
04/01/02		<0.5		0.014	<0.001	0.00146	0.00389	<0.001	0.01885
04/30/01	MW-3			0.728	<0.005	0.0219	0.0814		0.831
08/10/01		1.7	<5	0.506	<0.001	0.02850	0.07630	0.01790	0.62870
12/14/01		13.2	12.9	0.757	0.001	0.151	0.360	0.062	1.33174
04/30/01	MW-4			0.037	0.0051	0.0221	0.374		0.4382
08/10/01		0.7	<5	0.01320	<0.001	0.01060	0.02520	0.02550	0.07450
12/14/01		0.0044	<0.5	0.248	0.071	0.321	1.000	0.409	2.0494
08/10/01	MW-5			0.00178	<0.001	<0.001	0.00103	0.00213	0.00494
12/14/01		7.23	8.08	0.002	0.001	0.032	0.156	0.066	0.25775
04/01/02		15.5	3.77	<0.001	<0.001	0.004	0.01860	0.0079	0.03032
04/30/01	MW-6			0.0179	<0.005	<0.005	<0.005		0.0179
08/10/01				0.04890	<0.001	0.00652	0.00597	<0.001	0.06139
12/14/01		<0.5	<0.5	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
04/01/02		<0.5	<0.5	0.00475	<0.001	0.00132	<0.001	<0.001	0.00607
05/03/01	MW-11			0.139	<0.005	0.0579	0.258	0.455	0.9099
05/03/01	MW-12			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
08/10/01		<0.25	<5	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
12/14/02		<0.5	<0.5	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
04/01/02		<0.5	<0.5	<0.001	<0.001	<0.001	0.00311	0.00127	0.00438
05/03/01	MW-13			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
08/10/01		<0.25	<5	0.00280	<0.001	0.00151	0.00112	<0.001	0.00543
04/01/02		<0.5	<0.5	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
05/03/01	MW-14			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
08/10/01		<0.25	<5	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
12/14/02		<0.5	<0.5	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
04/01/02		<0.5	<0.5	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

CONCENTRATIONS OF TPH & BTEX IN GROUNDWATER

EOTT Energy Corporation
Jimmie Cooper
Monument, New Mexico
ETGI Project #EOT2074C

All concentrations are in mg/L

SAMPLE DATE	SAMPLE LOCATION	EPA SW 846-8015M		SW 846-8260B					
		GRO	DRO	BENZENE	TOLUENE	ETHYL-BENZENE	M,P-XYLENES	O-XYLENES	BTEX
05/03/01	MW-15			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
08/10/01		<0.25	<5	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
12/14/02		<0.5	<0.5	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
04/01/02		<0.5	<0.5	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
05/03/01	MW-16			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
08/10/01		<0.25	<5	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
12/14/02		<0.5	<0.5	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
04/01/02		<0.5	<0.5	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
05/03/01	MW-17			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
08/10/01		<0.25	<5	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
12/14/02		<0.5	<0.5	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
04/01/02		<0.5	<0.5	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
08/09/01	MW-19			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
12/14/02		<0.5	<0.5	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
04/01/02		<0.5	<0.5	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
08/09/01	MW-21			<0.001	<0.001	<0.001	<0.001	0.001	0.001
12/14/02		<0.5	<0.5	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
04/01/02		<0.5	<0.5	0.00111	<0.001	0.00121	0.00568	0.00186	0.00986
08/09/01	MW-23			0.01220	0.00177	0.02760	0.04480	0.02290	0.10927
12/14/02		<0.5	<0.5	0.0714	0.00649	0.0369	0.0962	0.0299	0.24089
04/01/02				0.0541	0.00273	0.0525	0.0938	0.0346	0.23773
08/09/01	MW-24			<0.001	0.00111	<0.001	0.019	0.010	0.02966
12/14/02		1	2.05	<0.001	<0.001	<0.001	0.001	<0.001	0.00123
04/01/02		26.4	12.9	<0.001	<0.001	<0.001	0.00111	<0.001	0.00111
08/09/01	MW-25			0.01530	<0.001	<0.001	0.00248	<0.001	0.01778
12/14/02		<0.5	<0.5	0.002	<0.001	0.00308	<0.001	<0.001	0.00556
04/01/02		<0.5	0.564	0.00434	<0.001	0.00654	0.0086	<0.001	0.01948
08/09/01	MW-26			0.05680	<0.001	0.02870	0.08130	0.00710	0.17390
12/14/02		<0.5	<0.5	0.028	<0.001	0.017	0.053	0.009	0.10627
04/01/02		<0.5	0.885	0.02670	<0.001	0.02880	0.06360	0.00321	0.12231
08/09/01	MW-27			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
12/14/01		<0.5	<0.5	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
04/01/02		<0.5	<0.5	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

CONCENTRATIONS OF TPH & BTEX IN GROUNDWATER

EOTT Energy Corporation
Jimmie Cooper
Monument, New Mexico
ETGI Project #EOT2074C

All concentrations are in mg/L

SAMPLE DATE	SAMPLE LOCATION	EPA SW 846-8015M		SW 846-8260B					
		GRO	DRO	BENZENE	TOLUENE	ETHYL-BENZENE	M,P-XYLENES	O-XYLENES	BTEX
08/09/01	MW-28			0.003	<0.001	<0.001	<0.001	<0.001	0.003
12/14/01		<0.5	<0.5	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
04/01/02		<0.5	<0.5	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
08/09/01	MW-29			0.06830	<0.001	<0.001	<0.001	0.00254	0.07084
12/14/02		<0.5	<0.5	0.078	<0.001	0.005	0.003	0.002	0.08765
04/01/02		<0.5	0.819	0.05140	<0.001	0.00754	0.00807	0.00159	0.0686
08/09/01	MW-30			0.290	0.00511	0.14600	0.33600	0.01550	0.79261
08/09/01	MW-31			0.00206	<0.001	<0.001	0.00134	<0.001	0.00340
12/14/01		<0.5	<0.5	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
04/01/02		<0.5	<0.5	0.00163	<0.001	<0.001	<0.001	<0.001	0.00163
10/18/01	MW-32	15	38.8	0.0131	<0.001	0.0174	0.0423	0.00877	0.08157
12/14/01		1.9	5.09	0.0112	<0.001	0.008	0.0109	0.00239	0.03249
04/01/02		3.08	2.13	0.00505	<0.001	0.00321	0.00561	0.0013	0.01517
10/18/01	MW-34	<0.5	<0.5	0.0584	<0.001	0.00264	0.00475	0.00174	0.06753
12/14/01		<0.5	2.78	0.0411	<0.001	0.00501	0.0082	0.0171	0.07141
10/18/01	MW-35	<0.5	<0.5	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
12/14/01		<0.5	<0.5	0.00149	<0.001	<0.001	<0.001	<0.001	0.00149
04/01/02		<0.5	<0.5	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
10/18/01	MW-36	<0.5	<0.5	0.0442	<0.001	0.00816	0.0212	<0.001	0.07356
12/14/01		<0.5	<0.5	0.0275	<0.001	0.00698	0.0183	0.00277	0.00149
04/01/02		<0.5	<0.5	0.034	0.00476	<0.001	<0.001	<0.001	0.03876
10/18/01	MW-37	<0.5	<0.5	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
12/14/01		<0.5	<0.5	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
04/01/02		<0.5	<0.5	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
10/18/01	MW-38	0.628	1.58	0.00169	<0.001	0.0013	0.00467	0.00107	0.00873
12/14/01		<0.5	4.24	0.0038	<0.001	<0.001	0.00276	<0.001	0.00656
04/01/02		8.05	1.95	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
10/18/01	MW-39	<0.5	<0.5	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
12/14/01		<0.5	<0.5	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
04/01/02		<0.5	<0.5	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

CONCENTRATIONS OF TPH & BTEX IN GROUNDWATER

EOTT Energy Corporation
Jimmie Cooper
Monument, New Mexico
ETGI Project #EOT2074C

All concentrations are in mg/L

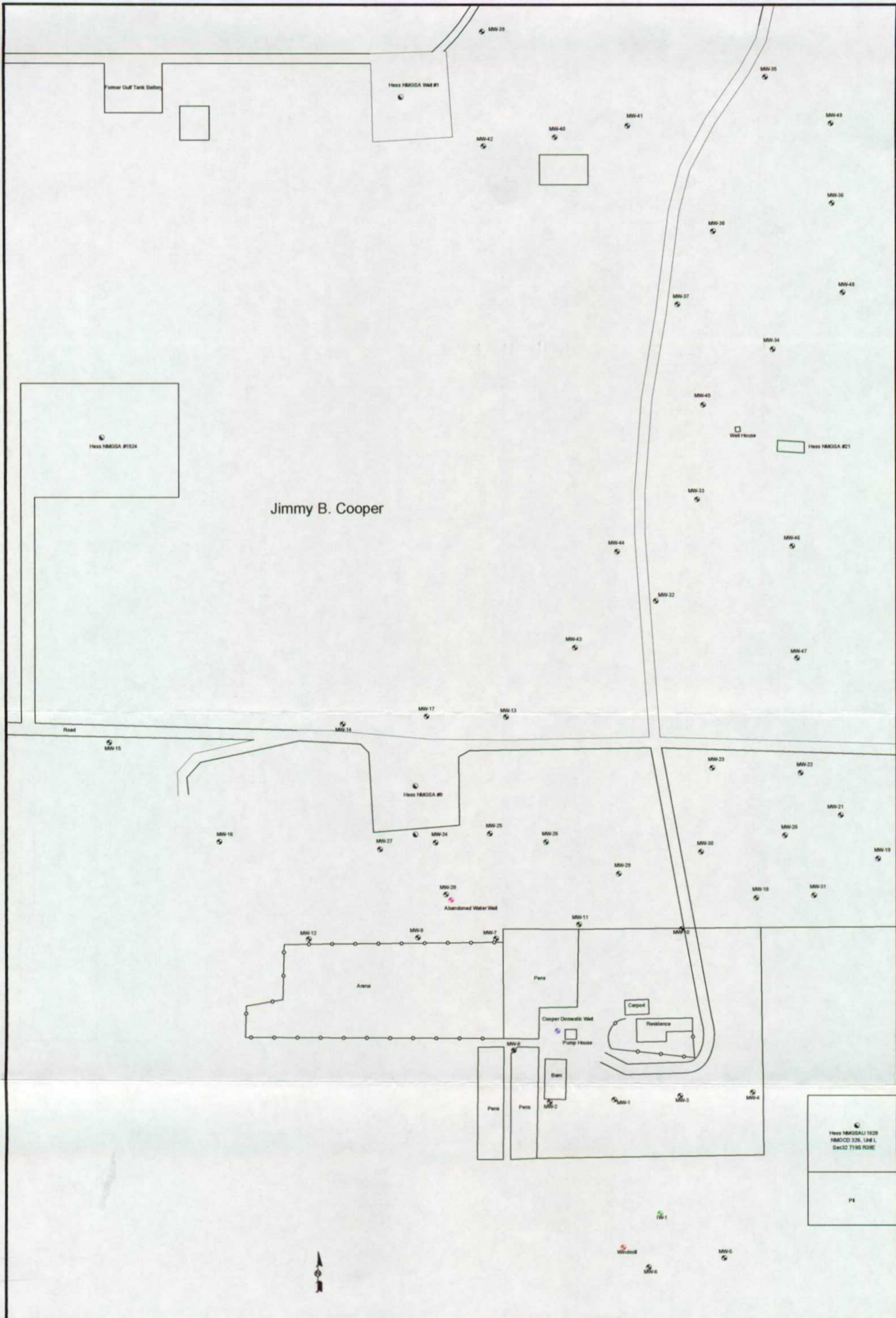
SAMPLE DATE	SAMPLE LOCATION	EPA SW 846-8015M		SW 846-8260B					
		GRO	DRO	BENZENE	TOLUENE	ETHYL-BENZENE	M,P-XYLENES	O-XYLENES	BTEX
10/18/01	MW-40	<0.5	<0.5	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
12/14/01		<0.5	<0.5	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
10/18/01	MW-41	<0.5	<0.5	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
12/14/01		<0.5	<0.5	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
04/01/02		<0.5	<0.5	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
10/18/01	MW-42	<0.5	<0.5	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
12/14/01		<0.5	<0.5	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
04/01/02		<0.5	<0.5	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
10/18/01	MW-43	<0.5	<0.5	0.00594	<0.001	0.0038	0.00942	0.00276	0.02192
12/14/01		<0.5	<0.5	0.00804	<0.001	0.00801	0.0209	0.00562	0.04257
04/01/02		<0.5	<0.5	0.00311	<0.001	0.00683	0.021	0.00363	0.03457
10/18/01	MW-44	<0.5	<0.5	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
12/14/01		<0.5	<0.5	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
04/01/02		<0.5	<0.5	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
04/01/02	MW-46	27.5	25.3	0.0279	<0.001	0.0711	0.225	0.0509	0.3749
10/18/01	MW-47	<0.5	<0.5	0.00459	<0.001	0.00114	0.0016	0.00156	0.00889
12/14/01		<0.5	<0.5	0.00353	<0.001	<0.001	<0.001	<0.001	0.00353
04/01/02		<0.5	<0.5	0.00434	<0.001	<0.001	<0.001	<0.001	0.00434
10/18/01	MW-48	<0.5	<0.5	0.00364	<0.001	0.00607	0.0152	0.00456	0.02947
12/14/01		<0.5	<0.5	0.00366	<0.001	0.00407	0.00446	<0.001	0.01219
04/01/02		<0.5	<0.5	0.00281	<0.001	0.00473	0.0083	0.00194	0.01778
10/18/01	MW-49	<0.5	<0.5	0.00827	<0.001	0.00437	0.0132	0.00313	0.02897
12/14/01		1.13	<0.5	0.0108	<0.001	0.0193	0.0592	0.0155	0.1048
04/01/02		<0.5	<0.5	0.011	<0.001	0.00884	0.0284	0.00439	0.05263

Concentrations in bold indicate results above the normal detection limit.

Data recorded in blue indicates data analyzed by AnalySys, Inc.

APPENDICES

APPENDIX A

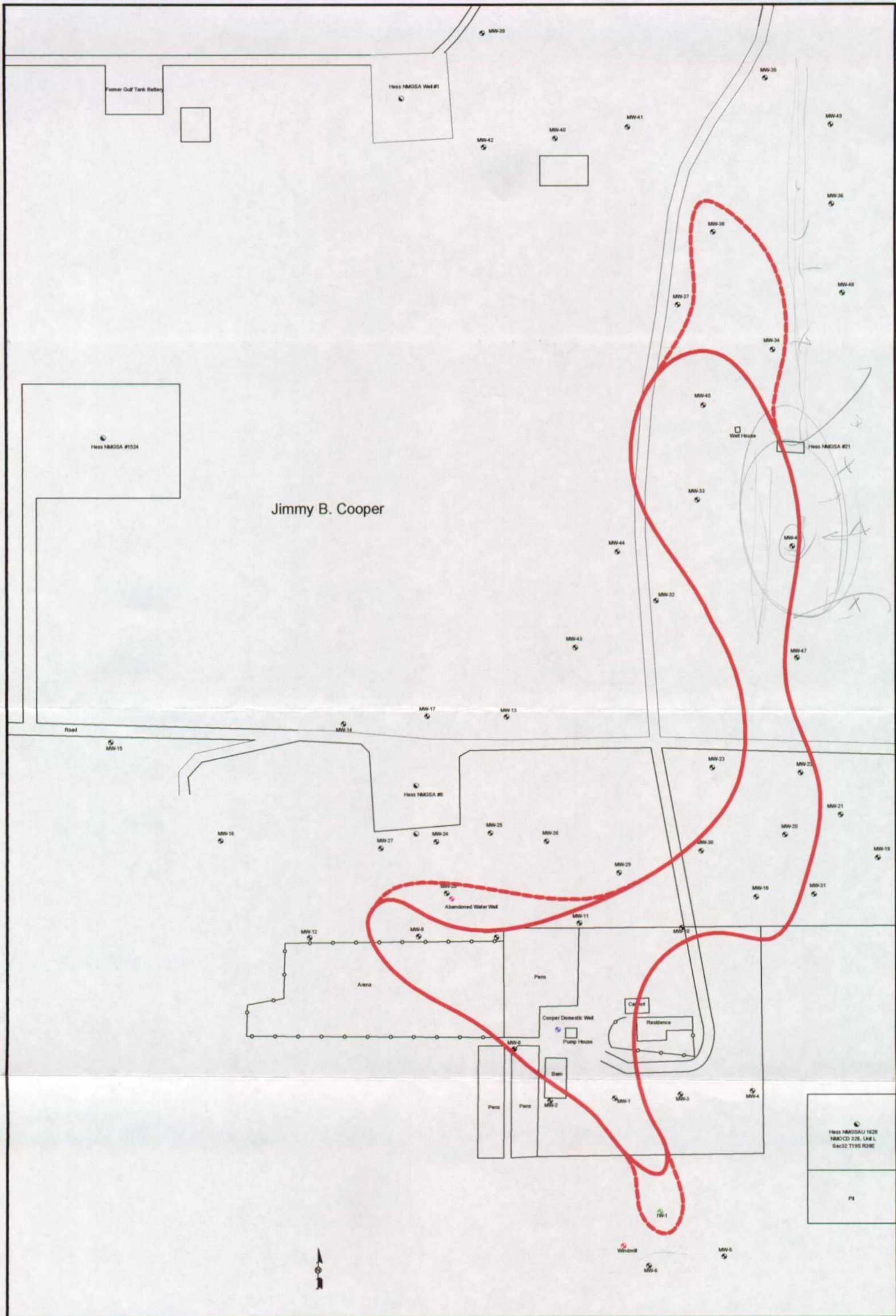


LEGEND:
Abandoned Irrigation Well Location
Windmill Location
Abandoned Water Well Location
Domestic Well Location
Monitor Well Location

Fence

Figure 2
Site Map
EOTT Energy Pipeline, LP
Jimmy B. Cooper
Lee County, NM

Environmental Technology Group, Inc.
Scale: 1" = 100'
Prep By: JCU
November 5, 2001
Checked By: DB
ETGI Project #: EOTT0104C

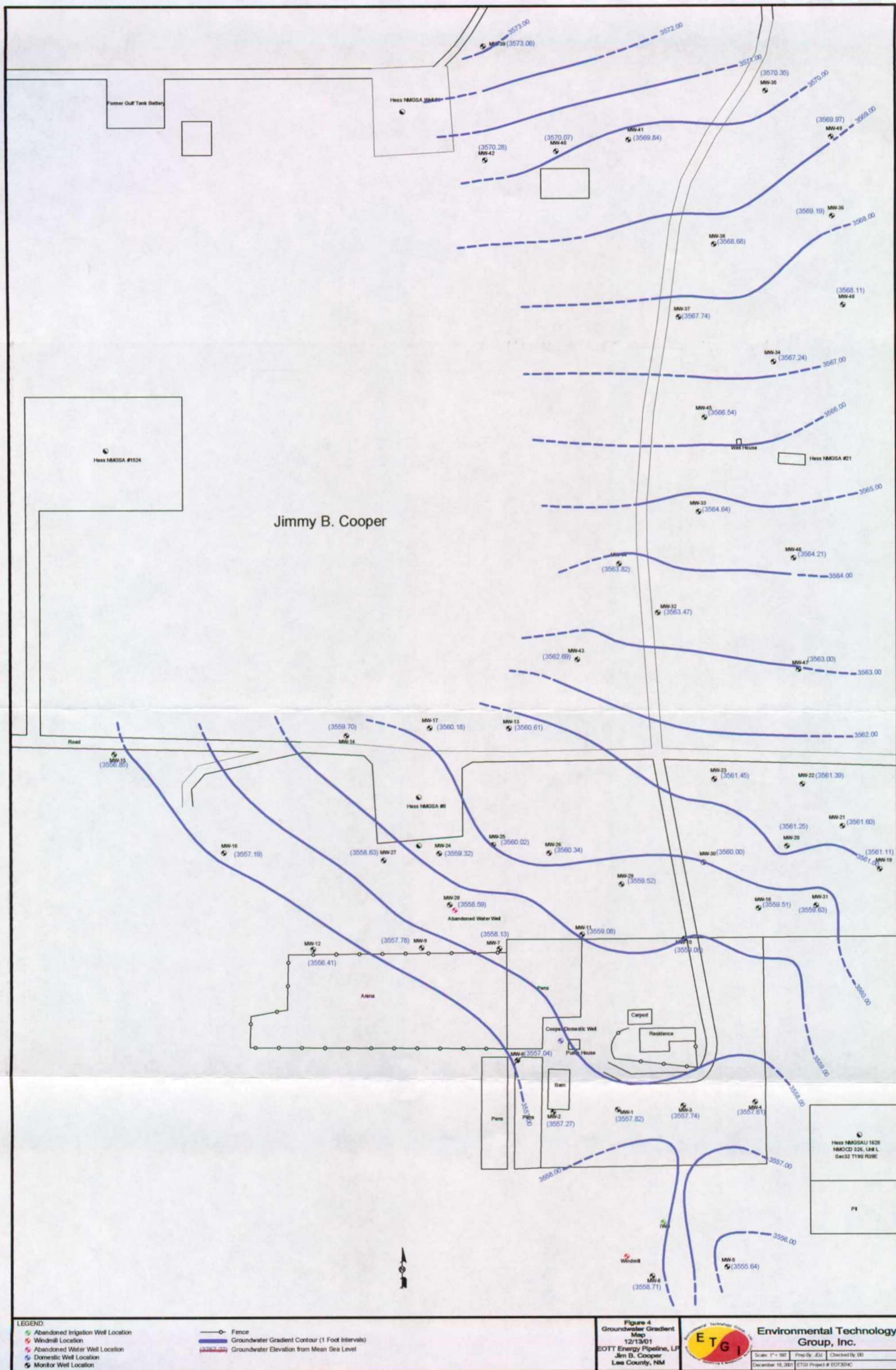


- LEGEND:**
- Abandoned Irrigation Well Location
 - Windmill Location
 - Abandoned Water Well Location
 - Domestic Well Location
 - Monitor Well Location
 - Fence
 - Areas Impacted with PSH at Time of Well Placement
 - Estimated PSH Distribution as of December 13th, 2001

Figure 3
Estimated Extent of
PSH Thickness
12/13/01
EOTT Energy Pipeline, LP
Jim B. Cooper
Lee County, NM

Environmental Technology Group, Inc.

Scale: 1" = 100' Prep By: JCU Checked By: DBI
December 18, 2001 ETOI Project # EOT201C



APPENDIX B

Soil Description

Soil, siliceous, low organic

Caliche cobbles, pink, mature sand

Sand, caliche, TO most likely, fine grained, 30% silt, very siliceous silt

Sand, caliche, TO most likely, fine grained, 30% silt, very siliceous silt

Silty Sand

Siliceous caliche, very hard

Light brown silty sand, caliche nodules

Light brown silty sand, caliche nodules, well cemented

Brown silty sand, wet, slight sheen

Monitoring Well Details

Date Drilled 04 - 24 - 01

Thickness of Bentonite Seal 3.0 ft

Length of PVC Well Screen 10 ft

Depth of PVC Well 25 ft

Depth of Exploratory Well 25 ft

Depth to Ground Water 20 ft

Grout Surface Seal

Bentonite Pellet Seal

Sand Pack

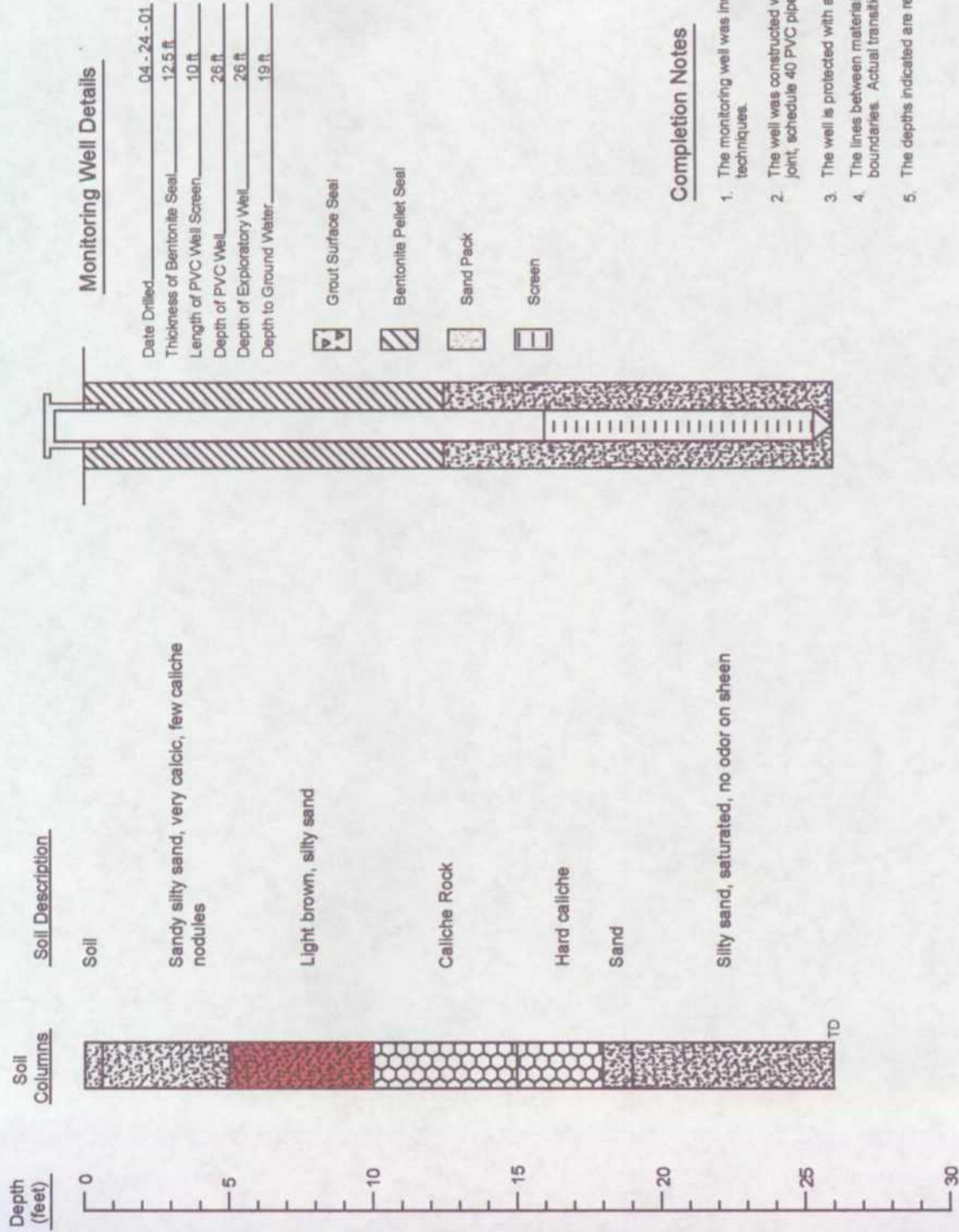
Screen

Completion Notes

- The monitoring well was installed using techniques.
- The well was constructed with a joint, schedule 40 PVC pipe.
- The well is protected with a cap.
- The lines between material boundaries. Actual transition depths are indicated.
- The depths indicated are to the top of the screen.

1. The monitoring well was installed on date using air rotary drilling techniques.
2. The well was constructed with 2" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
3. The well is protected with a locked stick up steel cover and a compression cap.
4. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
5. The depths indicated are referenced from the ground surface.

Monitoring Well MW-4



Boring Log And Monitoring Well Details

Monitoring Well - 4

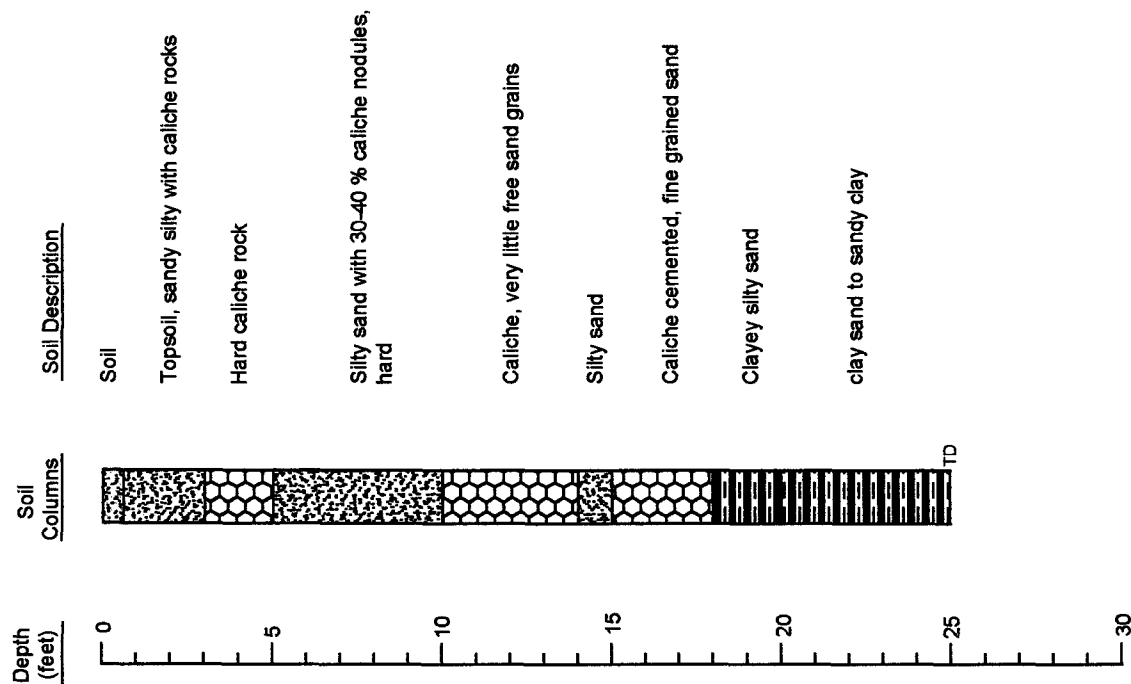
EOTT Energy Corp. Jimmy B Cooper, Lea County



Environmental Technology Group, Inc.

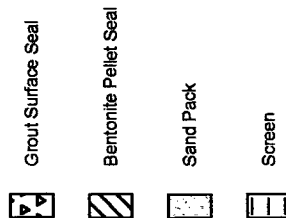
Scale: NTS	Prep By: RS	Checked By: BB
August 1, 2001		ETGI Project # EOT 2074C

Monitoring Well MW-6



Monitoring Well Details

Date Drilled 04 - 24 - 01
 Thickness of Bentonite Seal 10.5 ft
 Length of PVC Well Screen 10 ft
 Depth of PVC Well 25 ft
 Depth of Exploratory Well 25 ft
 Depth to Ground Water 25 ft



Completion Notes

1. The monitoring well was installed on date using air rotary drilling techniques.
2. The well was constructed with 2" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
3. The well is protected with a locked stick up steel cover and a compression cap.
4. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
5. The depths indicated are referenced from the ground surface.

Boring Log And Monitoring Well Details

Monitoring Well - 6

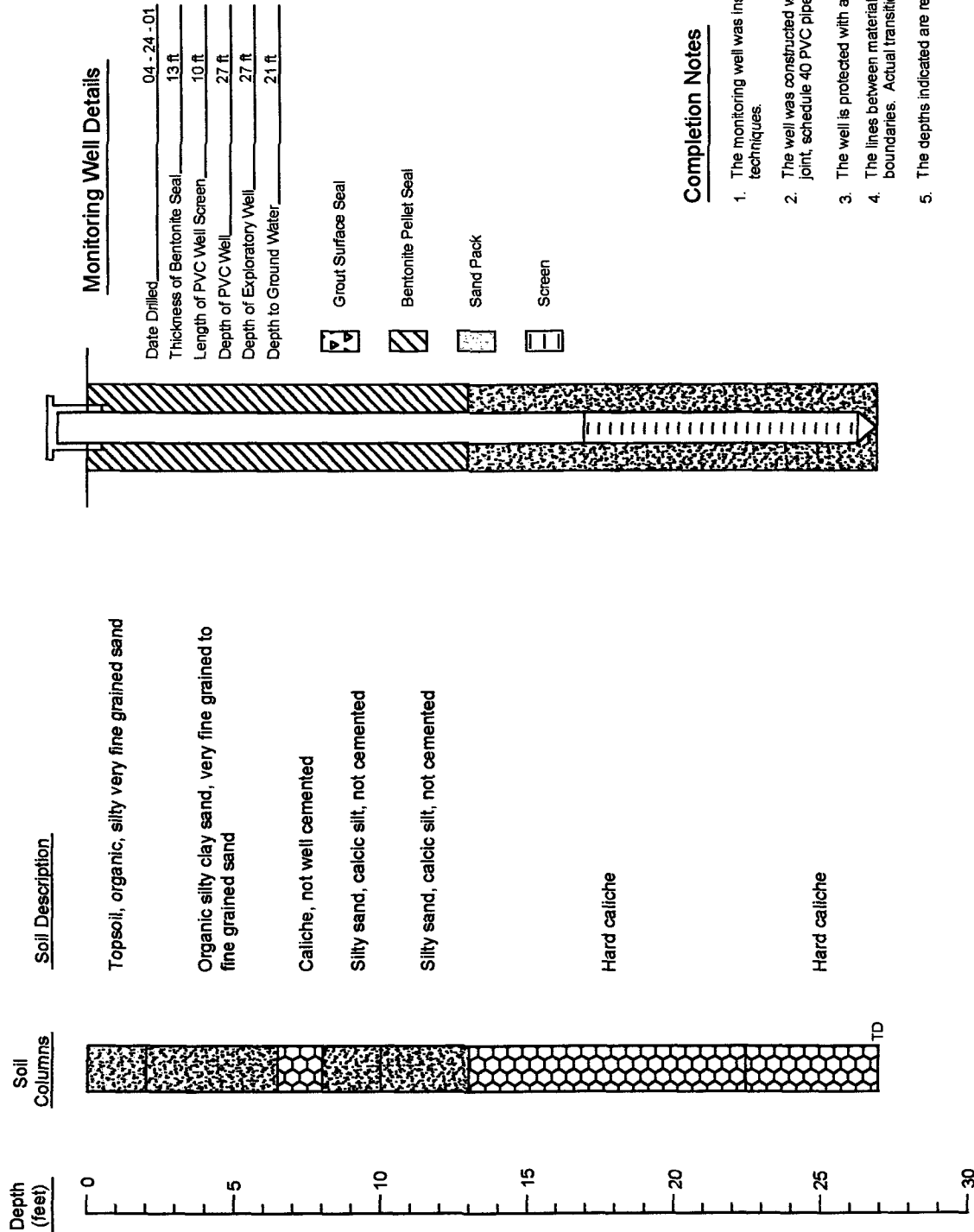
EOTT Energy Corp. Jimmy B Cooper, Lea County

Environmental Technology Group, Inc.



Scale: NTS
 August 1, 2001
 Prep By: RS
 Checked By: BB
 ETGI Project # EOT 2074C

Monitoring Well MW-7



Boring Log And Monitoring Well Details

Monitoring Well - 7

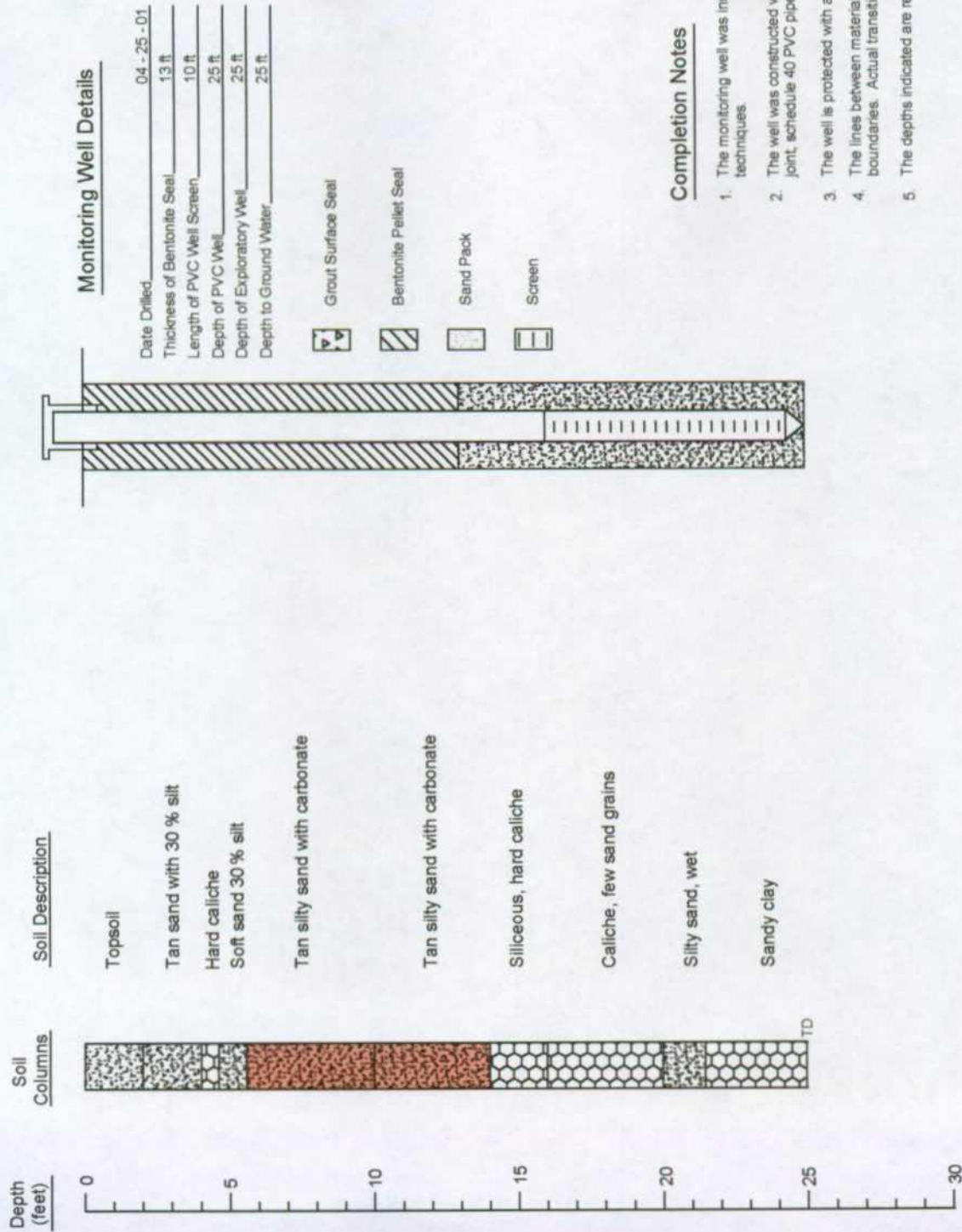
EOTT Energy Corp. Jimmy B Cooper, Lea County



Environmental Technology Group, Inc.

Scale: NTS
Prep By: RS
Checked By: BB
August 1, 2001
ETGI Project # EOT 2074C

Monitoring Well MW-8



Boring Log And Monitoring Well Details

Monitoring Well - 8

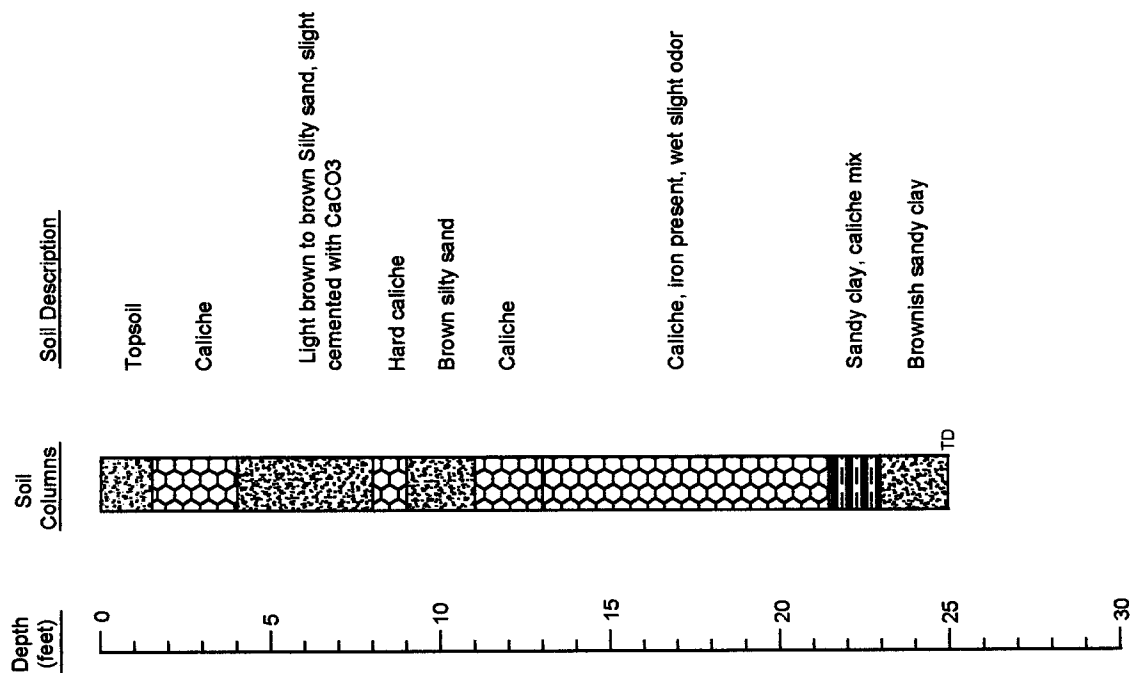
EOTT Energy Corp. Jimmy B Cooper, Lea County



Environmental Technology Group, Inc.

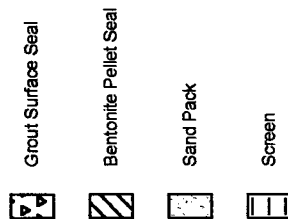
Scale: NTS	Prep By: RS	Checked By: BB
August 1, 2001	ETGI Project # EOT 2074C	

Monitoring Well MW-9



Monitoring Well Details

Date Drilled 04 - 25 - 01
 Thickness of Bentonite Seal 13 ft
 Length of PVC Well Screen 10 ft
 Depth of PVC Well 25 ft
 Depth of Exploratory Well 25 ft
 Depth to Ground Water 23.75 ft



Completion Notes

1. The monitoring well was installed on date using air rotary drilling techniques.
2. The well was constructed with 2" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
3. The well is protected with a locked stick up steel cover and a compression cap.
4. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
5. The depths indicated are referenced from the ground surface.

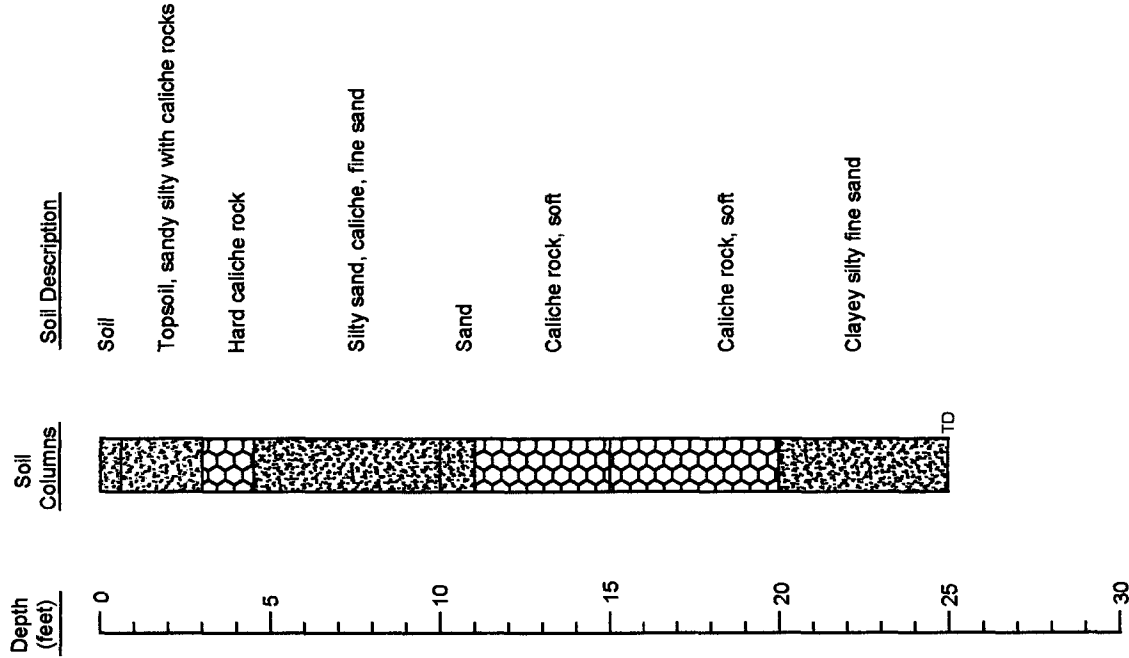
Boring Log And Monitoring Well Details
 Monitoring Well - 9
 EOTT Energy Corp. Jimmy B Cooper, Lea County



Environmental Technology Group, Inc.

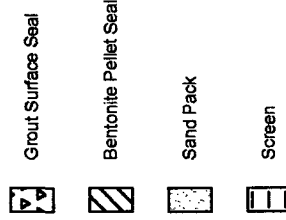
Scale: NTS
 August 1, 2001
 Prep By: RS
 Checked By: BB
 ETGI Project # EOT 2074C

Monitoring Well MW-5



Monitoring Well Details

Date Drilled	04 - 24 - 01
Thickness of Bentonite Seal	11.5 ft
Length of PVC Well Screen	10 ft
Depth of PVC Well	25 ft
Depth of Exploratory Well	25 ft
Depth to Ground Water	25 ft



Completion Notes

1. The monitoring well was installed on date using air rotary drilling techniques.
2. The well was constructed with 2" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
3. The well is protected with a locked stick up steel cover and a compression cap.
4. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
5. The depths indicated are referenced from the ground surface.

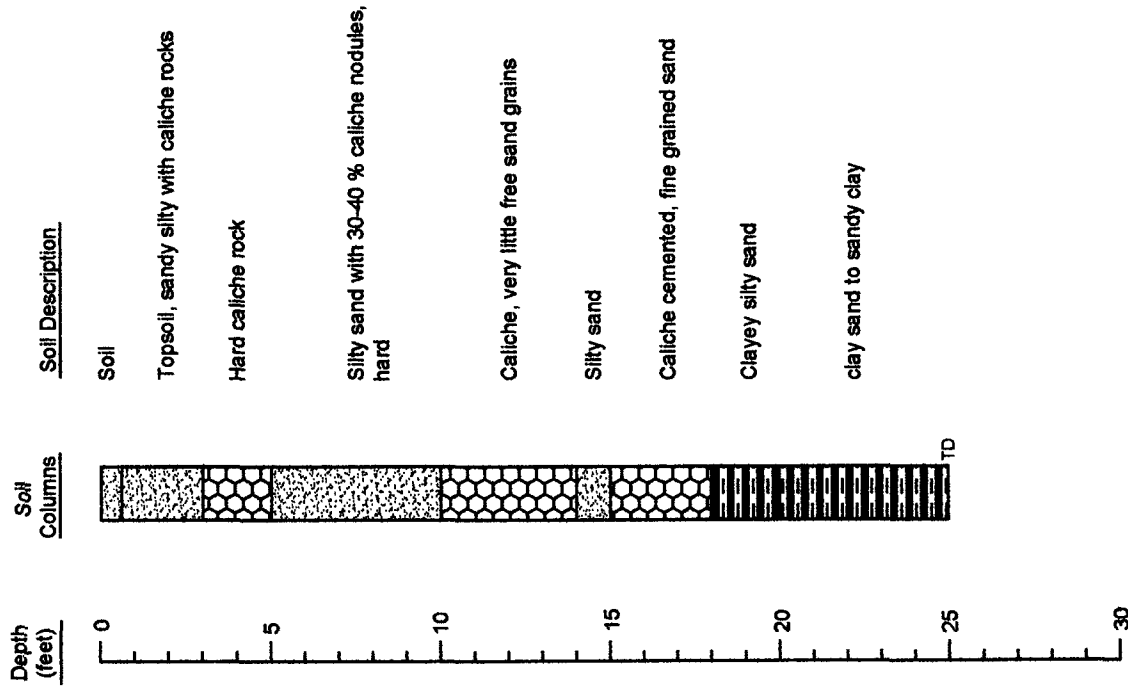
Boring Log And Monitoring Well Details
Monitoring Well - 5
EOTT Energy Corp. Jimmy B Cooper, Lea County



Environmental Technology Group, Inc.

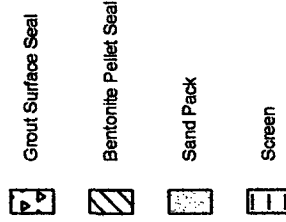
Scale: NTS	Prep By: RS	Checked By: BB
August 1, 2001	ETGI Project # EOT 2074C	

Monitoring Well MW-6



Monitoring Well Details

Date Drilled	04 - 24 - 01
Thickness of Bentonite Seal	10.5 ft
Length of PVC Well Screen	10 ft
Depth of PVC Well	25 ft
Depth of Exploratory Well	25 ft
Depth to Ground Water	25 ft



Completion Notes

1. The monitoring well was installed on date using air rotary drilling techniques.
2. The well was constructed with 2" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
3. The well is protected with a locked stick up steel cover and a compression cap.
4. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
5. The depths indicated are referenced from the ground surface.

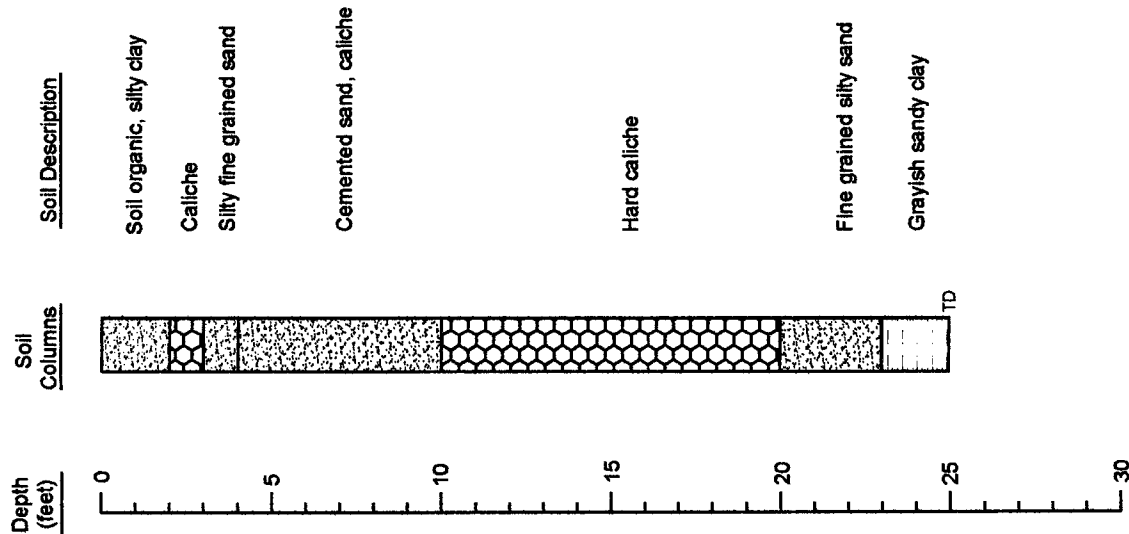
Boring Log And Monitoring Well Details
Monitoring Well - 6
EOTT Energy Corp. Jimmy B Cooper, Lea County



Environmental Technology Group, Inc.

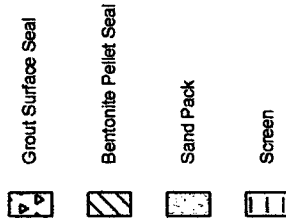
Scale: NTS	Prep By: RS	Checked By: BB
August 1, 2001	ETGI Project # EOT 2074C	

Monitoring Well MW-10



Monitoring Well Details

Date Drilled 04 - 25 - 01
 Thickness of Bentonite Seal 12.5 ft
 Length of PVC Well Screen 10 ft
 Depth of PVC Well 25 ft
 Depth of Exploratory Well 25 ft
 Depth to Ground Water 23 ft



Completion Notes

1. The monitoring well was installed on date using air rotary drilling techniques.
2. The well was constructed with 2" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
3. The well is protected with a locked stick up steel cover and a compression cap.
4. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
5. The depths indicated are referenced from the ground surface.

Boring Log And Monitoring Well Details

Monitoring Well - 10

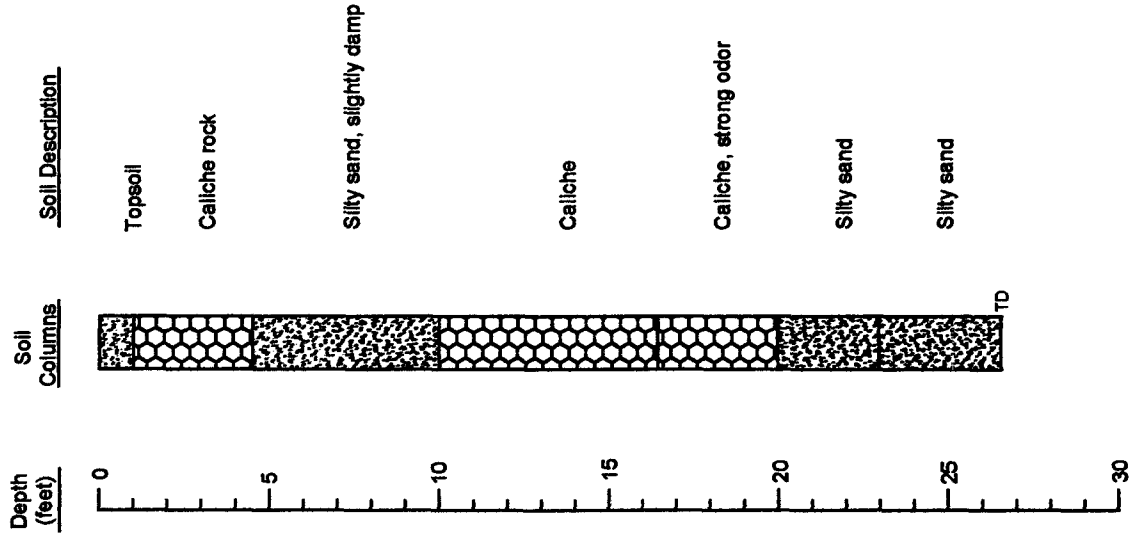
EOTT Energy Corp. Jimmy B Cooper, Lea County

Environmental Technology Group, Inc.

Scale: NTS
 August 1, 2001
 Prep By: RS
 Checked By: BS
 ETGI Project # EOT 2074C

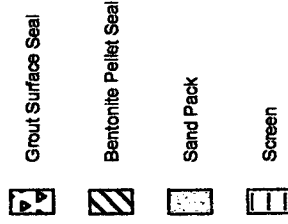


Monitoring Well MW-11



Monitoring Well Details

Date Drilled 04-28-01
 Thickness of Bentonite Seal 10.5 ft
 Length of PVC Well Screen 10 ft
 Depth of PVC Well 26.5 ft
 Depth of Exploratory Well 26.5 ft
 Depth to Ground Water 22 ft



Completion Notes

1. The monitoring well was installed on date using air rotary drilling techniques.
2. The well was constructed with 2" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
3. The well is protected with a locked stick up steel cover and a compression cap.
4. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
5. The depths indicated are referenced from the ground surface.

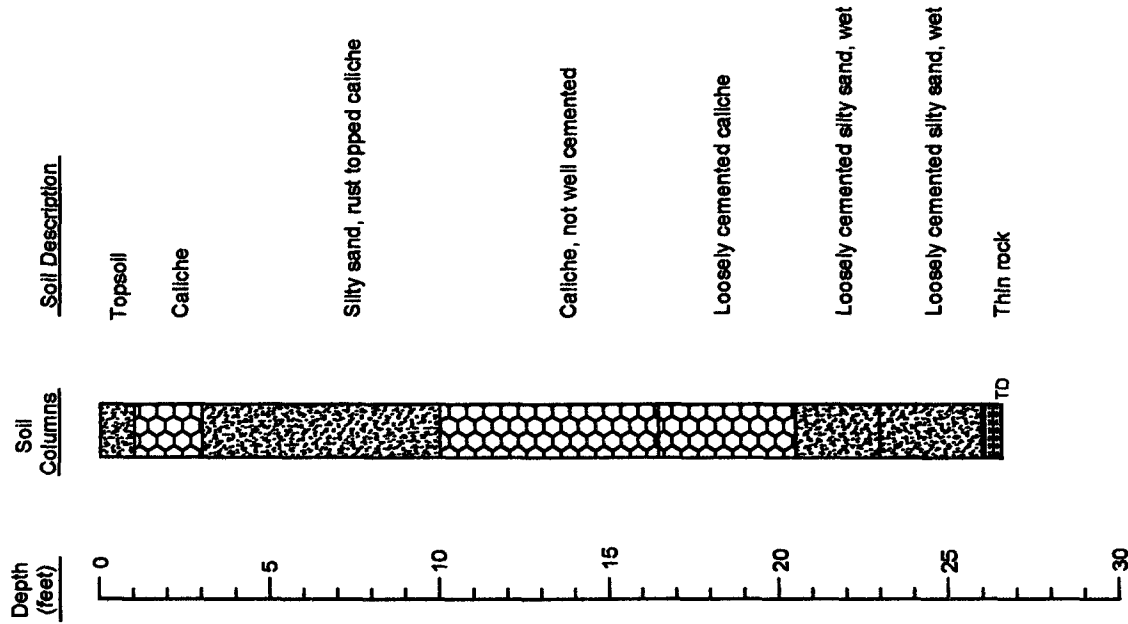
Boring Log And Monitoring Well Details
 Monitoring Well - 11
 EOTT Energy Corp. Jimmy B Cooper, Lea County



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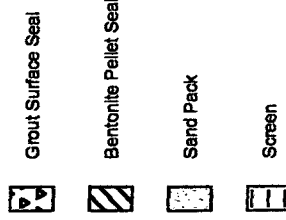
Scale: NTS
 August 1, 2001
 Prep By: RS
 Checked By: BB
 ETGI Project # EOT 2074C

Monitoring Well MW-12



Monitoring Well Details

Date Drilled: 04 - 26 - 01
 Thickness of Bentonite Seal: 13 ft
 Length of PVC Well Screen: 10 ft
 Depth of PVC Well: 26.5 ft
 Depth of Exploratory Well: 26.5 ft
 Depth to Ground Water: 23 ft



Completion Notes

1. The monitoring well was installed on date using air rotary drilling techniques.
2. The well was constructed with 2" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
3. The well is protected with a locked stick up steel cover and a compression cap.
4. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
5. The depths indicated are referenced from the ground surface.

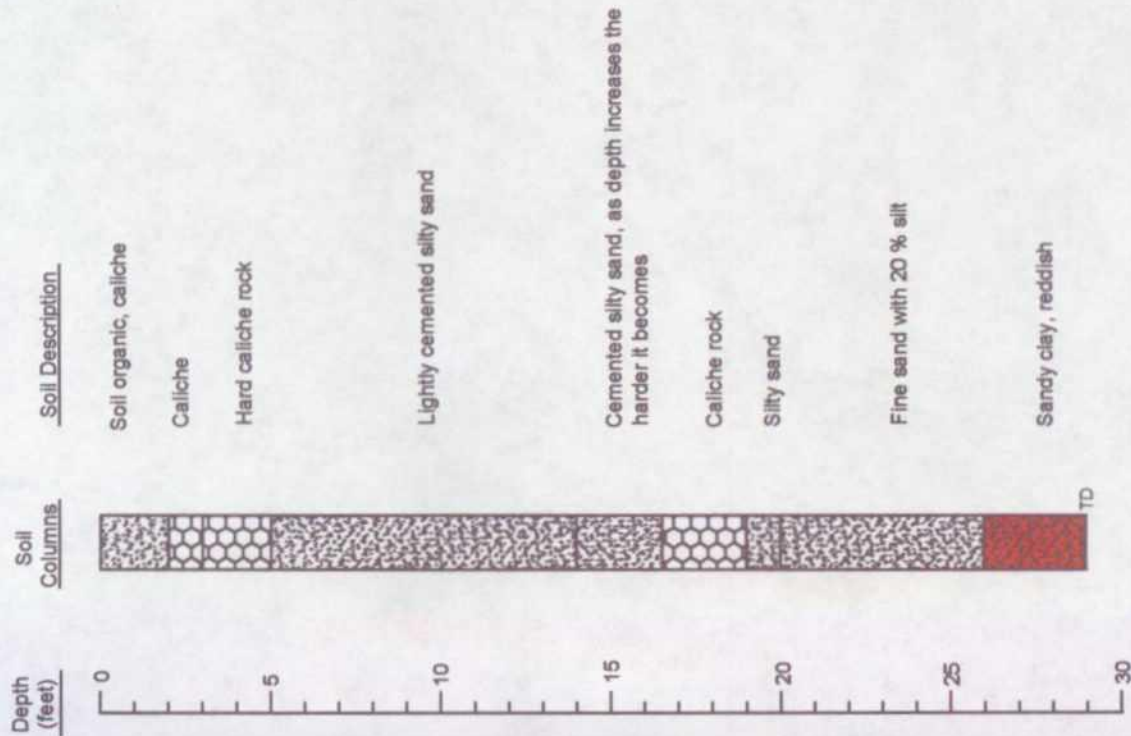
Boring Log And Monitoring Well Details
 Monitoring Well - 12
 EOTT Energy Corp. Jimmy B Cooper, Lea County



Environmental Technology
 Group, Inc.

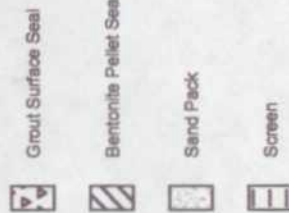
Scale: NTS
 Prep By: RS
 Checked By: BS
 August 1, 2001
 ETGI Project # EOT 2074C

Monitoring Well MW-13



Monitoring Well Details

Date Drilled	04 - 26 - 01
Thickness of Bentonite Seal	12 ft
Length of PVC Well Screen	15 ft
Depth of PVC Well	29 ft
Depth of Exploratory Well	29 ft
Depth to Ground Water	26 ft



Completion Notes

1. The monitoring well was installed on date using air rotary drilling techniques.
2. The well was constructed with 2" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
3. The well is protected with a locked stick up steel cover and a compression cap.
4. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
5. The depths indicated are referenced from the ground surface.

Boring Log And Monitoring Well Details

Monitoring Well - 13

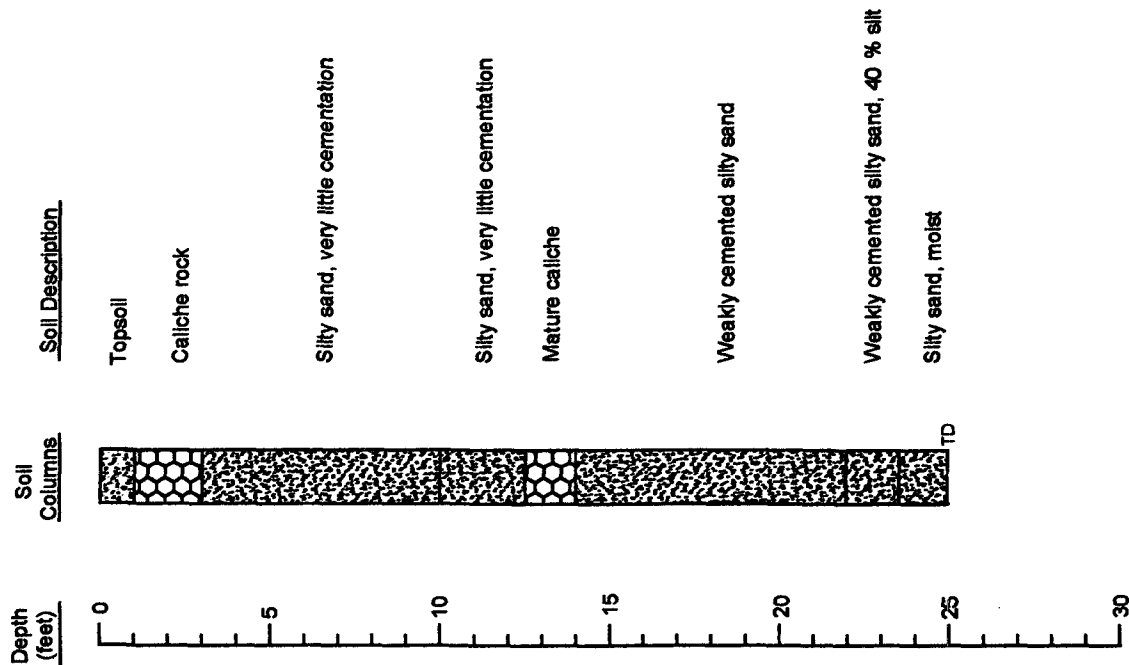
EOTT Energy Corp. Jimmy B Cooper, Lea County



Environmental Technology Group, Inc.

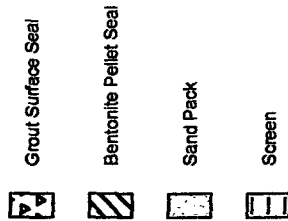
Scale: NTS
August 1, 2001
Prep By: RS
Checked By: BB
ETGI Project # EOT 2074C

Monitoring Well MW-14



Monitoring Well Details

Date Drilled: 04 - 27 - 01
 Thickness of Bentonite Seal: 12.5 ft
 Length of PVC Well Screen: 10 ft
 Depth of PVC Well: 25 ft
 Depth of Exploratory Well: 25 ft
 Depth to Ground Water: 25 ft



Completion Notes

1. The monitoring well was installed on date using air rotary drilling techniques.
2. The well was constructed with 2" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
3. The well is protected with a locked stick up steel cover and a compression cap.
4. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
5. The depths indicated are referenced from the ground surface.

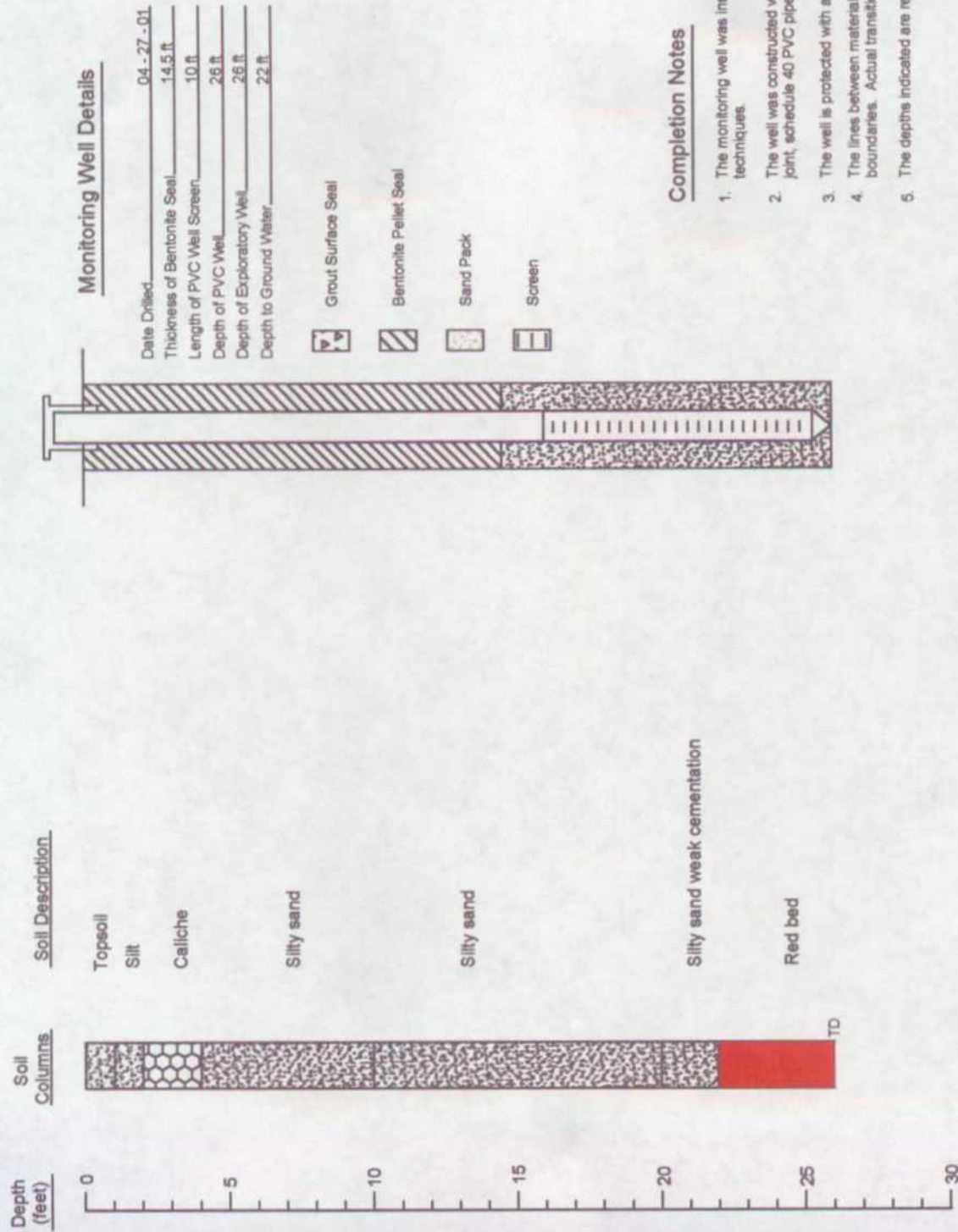
Boring Log And Monitoring Well Details
 Monitoring Well - 14
 EOTT Energy Corp. Jimmy B Cooper, Lea County



Environmental Technology
 Group, Inc.

Scale: NTS
 August 1, 2001
 Prep By: RS
 Checked By: BB
 ETGI Project # EOT 2074C

Monitoring Well MW-15



Completion Notes

1. The monitoring well was installed on date using air rotary drilling techniques.
2. The well was constructed with 2" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
3. The well is protected with a locked slick up steel cover and a compression cap.
4. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
5. The depths indicated are referenced from the ground surface.

Boring Log And Monitoring Well Details

Monitoring Well - 15

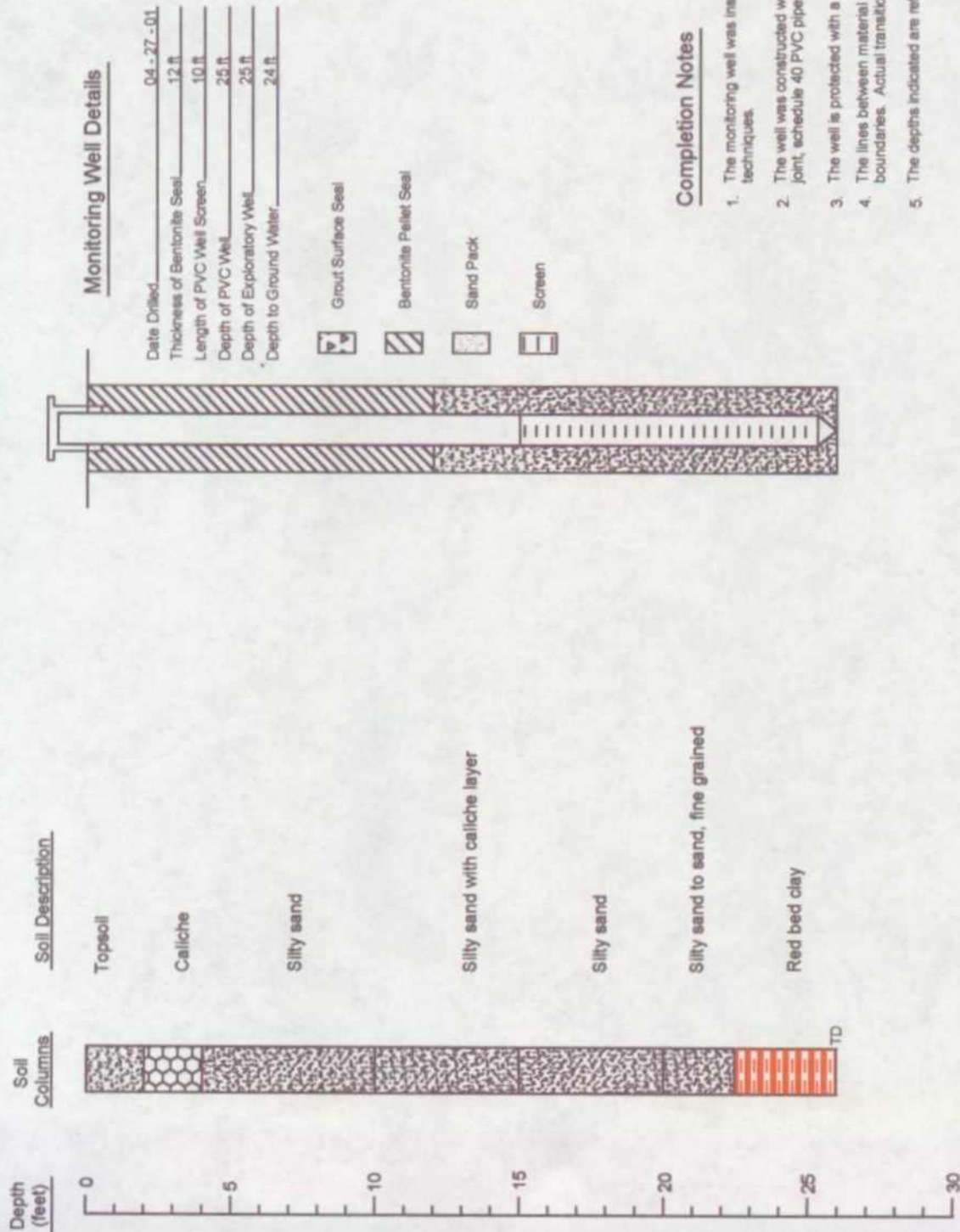
EOTT Energy Corp. Jimmy B Cooper, Lea County



Environmental Technology Group, Inc.

Scale: NTS	Prep By: RS	Checked By: BB
August 1, 2001		ETGI Project # EOT 2074C

Monitoring Well MW-16



Boring Log And Monitoring Well Details

Monitoring Well - 16

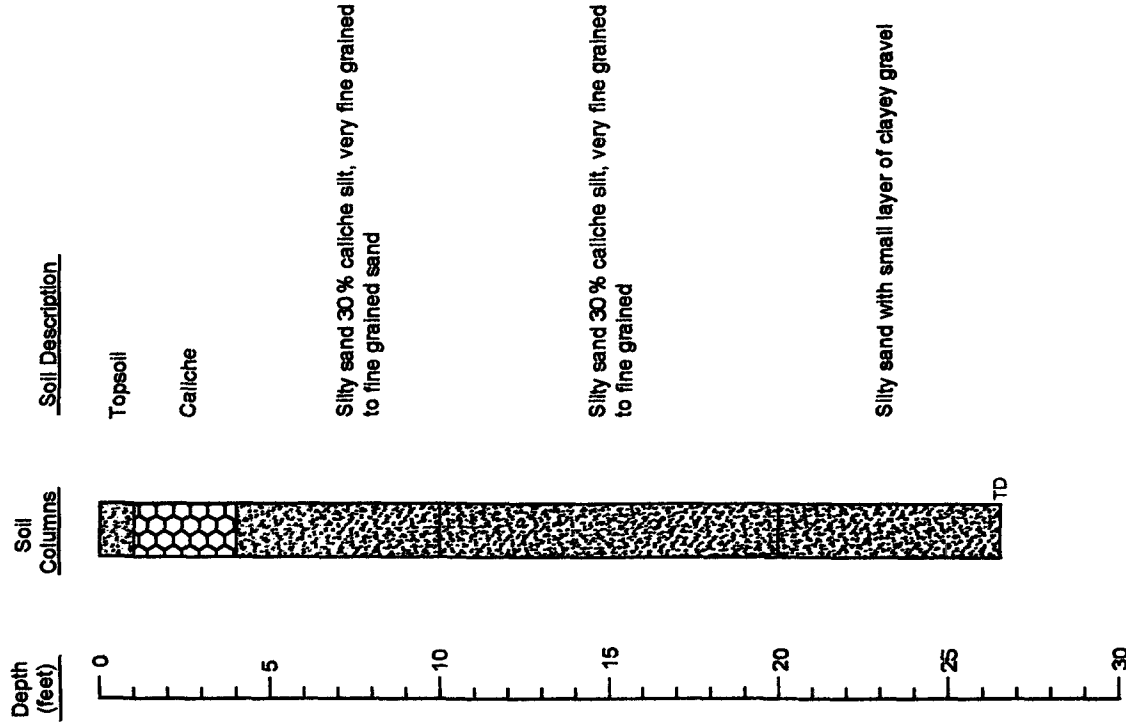
EOTT Energy Corp. Jimmy B Cooper, Lea County



Environmental Technology Group, Inc.

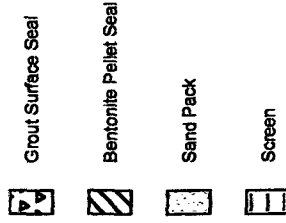
Scale: NTS
Prep By: RS
Checked By: BB
August 1, 2001
ETGI Project # EOT 2074C

Monitoring Well MW-17



Monitoring Well Details

Date Drilled 04-27-01
 Thickness of Bentonite Seal 12 ft
 Length of PVC Well Screen 10 ft
 Depth of PVC Well 28.5 ft
 Depth of Exploratory Well 28.5 ft
 Depth to Ground Water 24 ft



Completion Notes

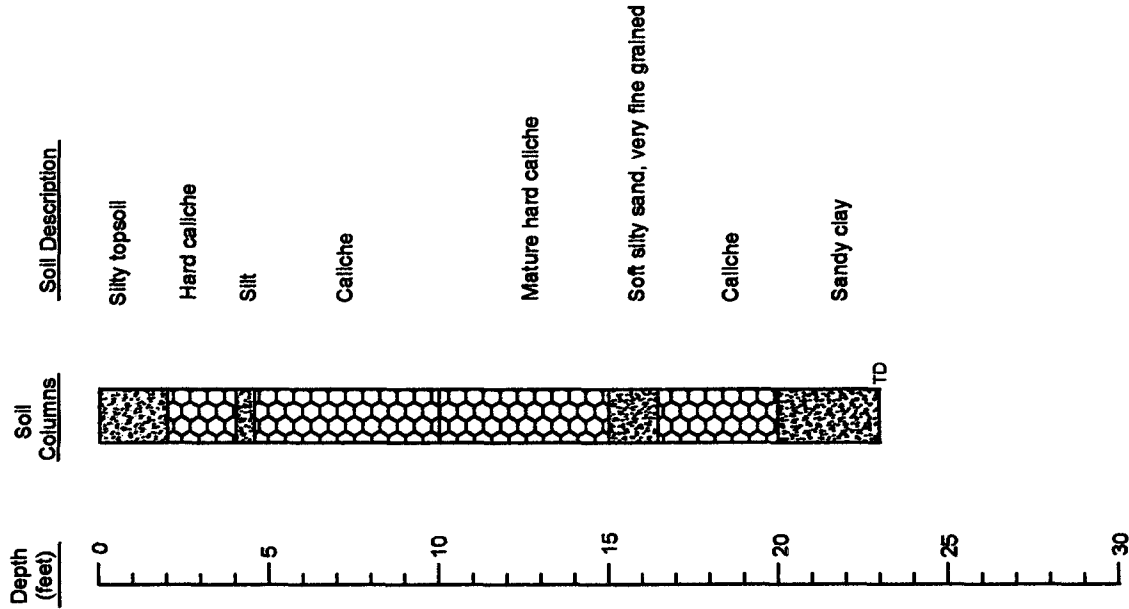
1. The monitoring well was installed on date using air rotary drilling techniques.
2. The well was constructed with 2" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
3. The well is protected with a locked stick up steel cover and a compression cap.
4. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
5. The depths indicated are referenced from the ground surface.

Boring Log And Monitoring Well Details
 Monitoring Well - 17
 EOTT Energy Corp. Jimmy B Cooper, Lea County

Environmental Technology
 Group, Inc.

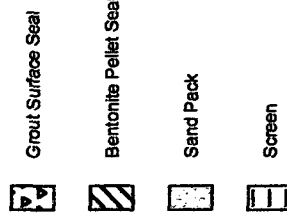
Scale: NTS
 August 1, 2001
 Prep By: RS
 Checked By: BB
 EOT Project # EOT 2074C

Monitoring Well MW-18



Monitoring Well Details

Date Drilled 07-17-01
 Thickness of Bentonite Seal 9.5 ft
 Length of PVC Well Screen 10 ft
 Depth of PVC Well 23 ft
 Depth of Exploratory Well 23 ft
 Depth to Ground Water 22 ft



Completion Notes

1. The monitoring well was installed on date using air rotary drilling techniques.
2. The well was constructed with 2" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
3. The well is protected with a locked stick up steel cover and a compression cap.
4. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
5. The depths indicated are referenced from the ground surface.

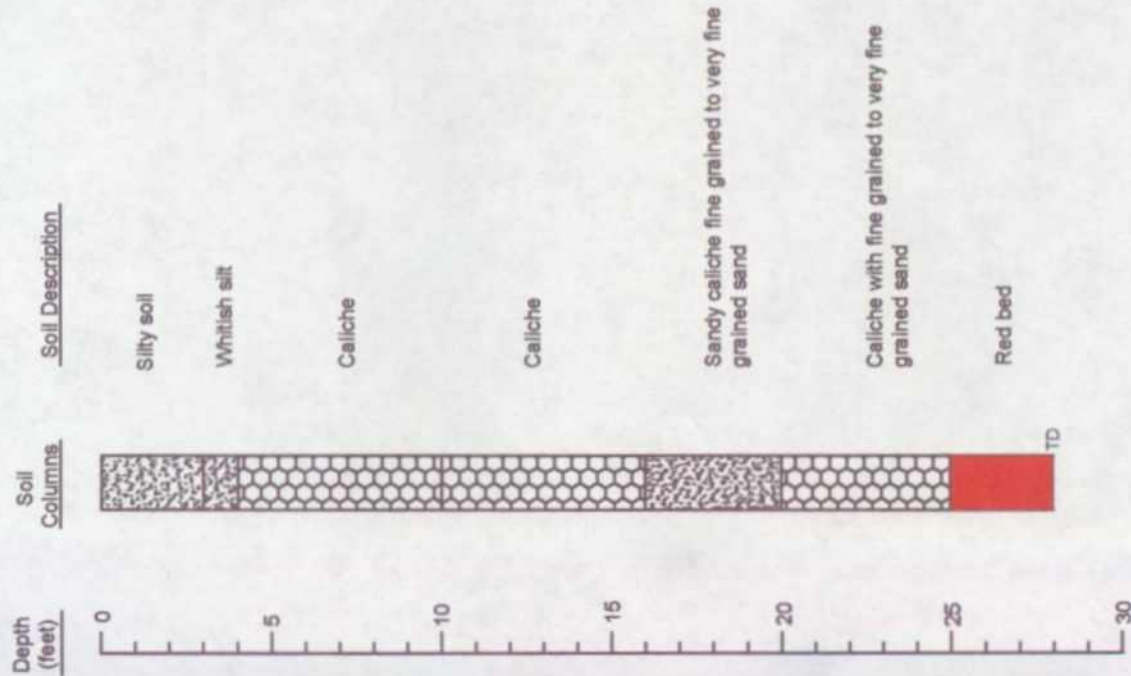
Boring Log And Monitoring Well Details
 Monitoring Well - 18
 EOTT Energy Corp. Jimmy B Cooper, Lea County



Environmental Technology
 Group, Inc.

Scale: NTS
 August 1, 2001
 Prep By: RS
 Checked By: BB
 ETGI Project # EOT 2074C

Monitoring Well MW-19



Monitoring Well Details

Date Drilled	07 - 17 - 01
Thickness of Bentonite Seal	12 ft
Length of PVC Well Screen	13 ft
Depth of PVC Well	28 ft
Depth of Exploratory Well	28 ft
Depth to Ground Water	23 ft



Completion Notes

1. The monitoring well was installed on date using air rotary drilling techniques.
2. The well was constructed with 2" ID, 0.020 inch factory slot, threaded joint, schedule 40 PVC pipe.
3. The well is protected with a locked stick up steel cover and a compression cap.
4. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
5. The depths indicated are referenced from the ground surface.

Boring Log And Monitoring Well Details

Monitoring Well - 19

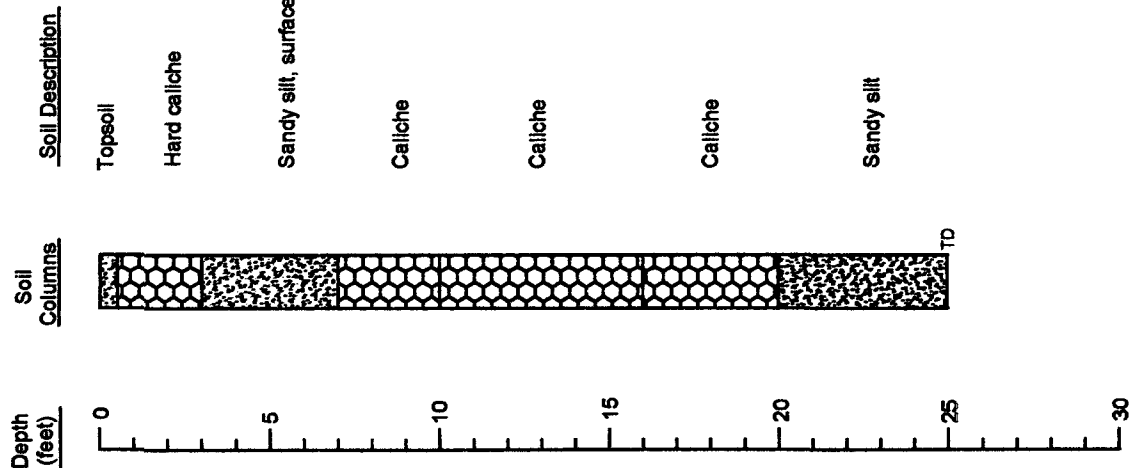
EOTT Energy Corp. Jimmy B Cooper, Lea County



Environmental Technology Group, Inc.

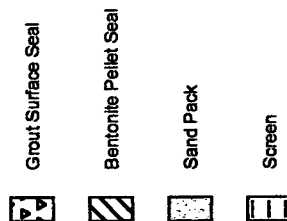
Scale: NTS	Prep By: RS	Checked By: BG
August 1, 2001	ETGI Project # EOT 2074C	

Monitoring Well MW-20



Monitoring Well Details

Date Drilled 07 - 17 - 01
 Thickness of Bentonite Seal 12 ft
 Length of PVC Well Screen 10 ft
 Depth of PVC Well 25 ft
 Depth of Exploratory Well 25 ft
 Depth to Ground Water 23 ft



Completion Notes

1. The monitoring well was installed on date using air rotary drilling techniques.
2. The well was constructed with 2" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
3. The well is protected with a locked stick up steel cover and a compression cap.
4. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
5. The depths indicated are referenced from the ground surface.

Boring Log And Monitoring Well Details

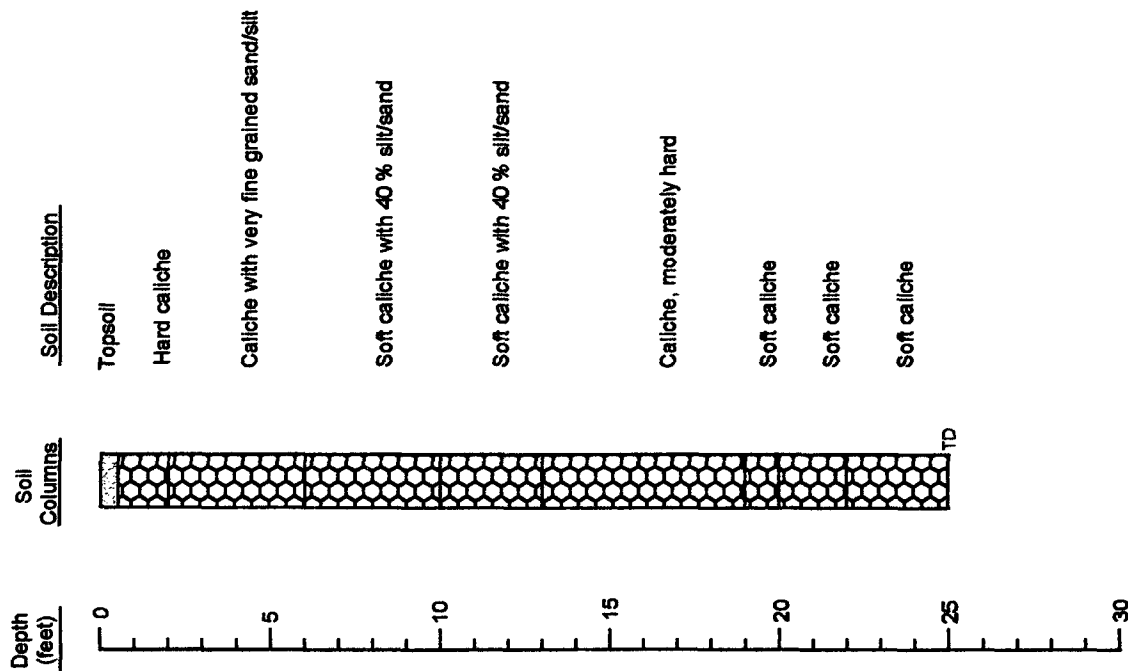
Monitoring Well - 20

EOTT Energy Corp. Jimmy B Cooper, Lea County

Environmental Technology
 Group, Inc.

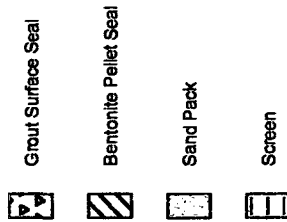
Scale: NTS
 August 1, 2001
 Prep By: RS
 Checked By: BB
 ETGI Project # EOT 2074C

Monitoring Well MW-21



Monitoring Well Details

Date Drilled 07-18-01
 Thickness of Bentonite Seal 12 ft
 Length of PVC Well Screen 10 ft
 Depth of PVC Well 25 ft
 Depth of Exploratory Well 25 ft
 Depth to Ground Water 20 ft



Completion Notes

1. The monitoring well was installed on date using air rotary drilling techniques.
2. The well was constructed with 2" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
3. The well is protected with a locked stick up steel cover and a compression cap.
4. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
5. The depths indicated are referenced from the ground surface.

Boring Log And Monitoring Well Details

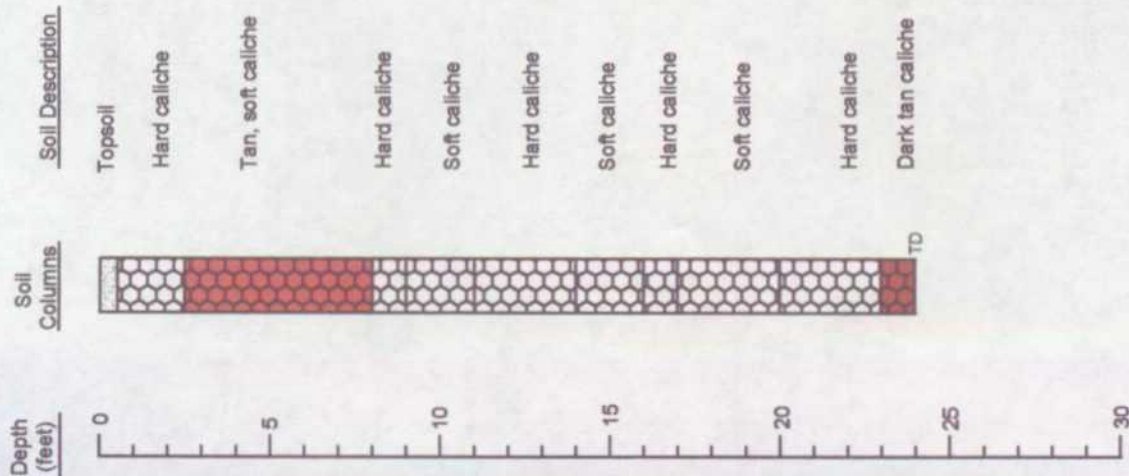
Monitoring Well - 21

EOTT Energy Corp. Jimmy B Cooper, Lea County

Environmental Technology
 Group, Inc.

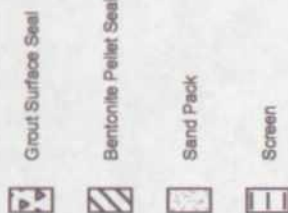
Scale: NTS
 Prep By: RS
 Checked By: BB
 August 1, 2001
 ETGI Project # EOT 2074C

Monitoring Well MW-22



Monitoring Well Details

Date Drilled	07-18-01
Thickness of Bentonite Seal	10 ft
Length of PVC Well Screen	10 ft
Depth of PVC Well	24 ft
Depth of Exploratory Well	24 ft
Depth to Ground Water	20 ft



Completion Notes

1. The monitoring well was installed on date using air rotary drilling techniques.
2. The well was constructed with 2" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
3. The well is protected with a locked stick up steel cover and a compression cap.
4. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
5. The depths indicated are referenced from the ground surface.

Boring Log And Monitoring Well Details

Monitoring Well - 22

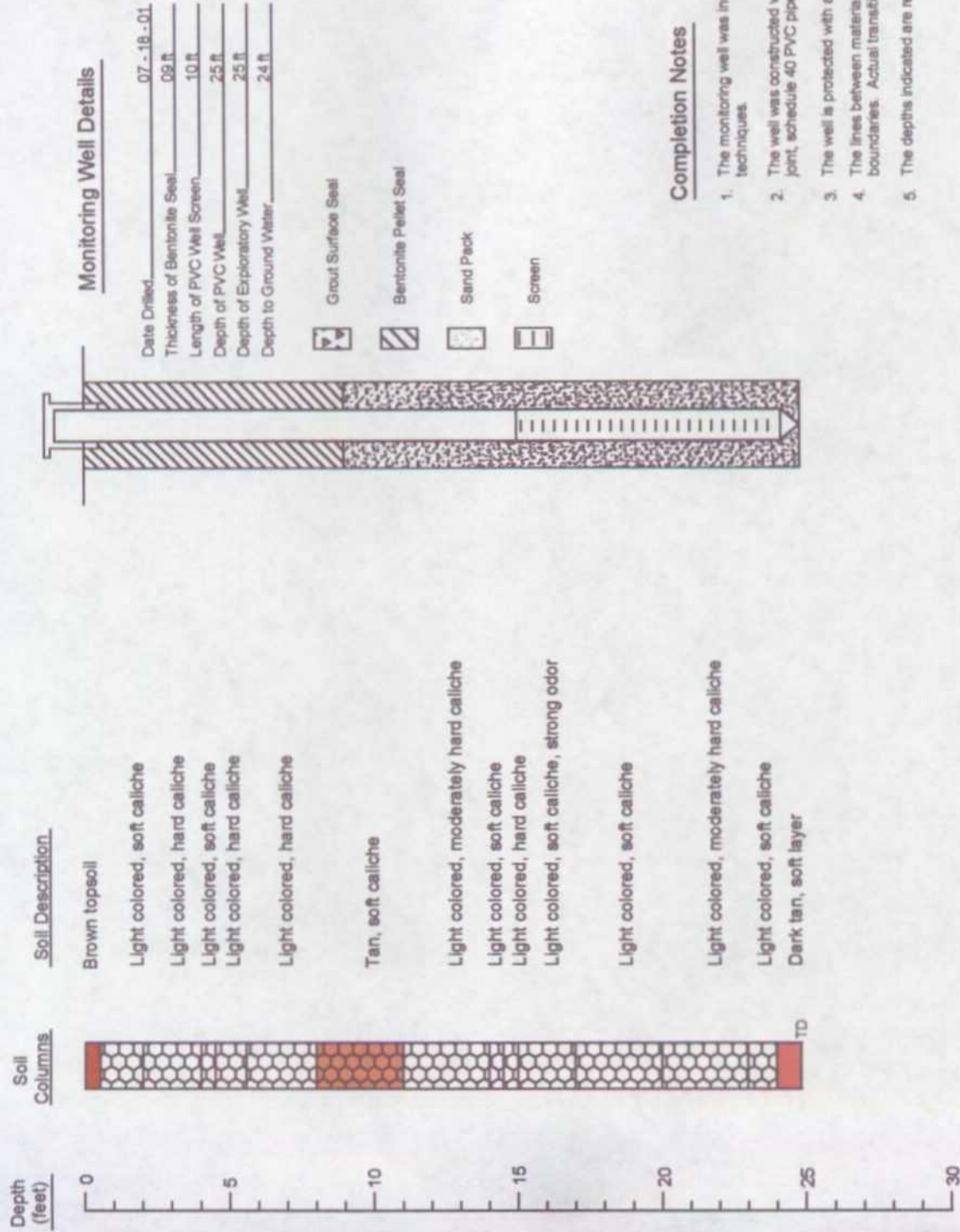
EOTT Energy Corp. Jimmy B Cooper, Lea County



Environmental Technology Group, Inc.

Scale: NTS
August 1, 2001
Prep By: RS
Checked By: BB
ETGI Project # EOT 2074C

Monitoring Well MW-23



Boring Log And Monitoring Well Details

Monitoring Well - 23

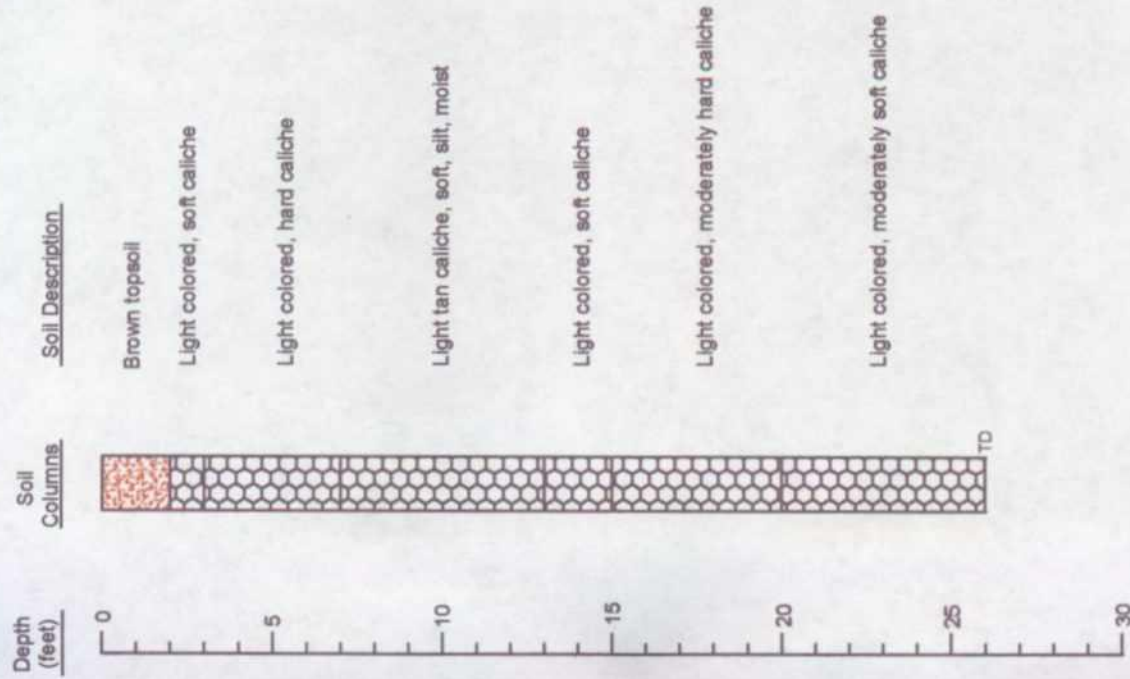
EOTT Energy Corp. Jimmy B Cooper, Lea County



Environmental Technology Group, Inc.

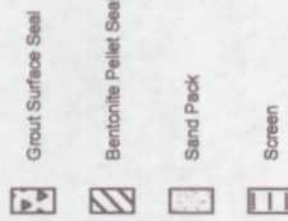
Scale: NTS
Prep By: RS
Checked By: BB
August 1, 2001
ETGI Project # EOT 2074C

Monitoring Well MW-24



Monitoring Well Details

Date Drilled 07-18-01
 Thickness of Bentonite Seal 10 ft
 Length of PVC Well Screen 10 ft
 Depth of PVC Well 26 ft
 Depth of Exploratory Well 26 ft
 Depth to Ground Water 25 ft



Completion Notes

1. The monitoring well was installed on date using air rotary drilling techniques.
2. The well was constructed with 2" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
3. The well is protected with a locked stick up steel cover and a compression cap.
4. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
5. The depths indicated are referenced from the ground surface.

Boring Log And Monitoring Well Details

Monitoring Well - 24

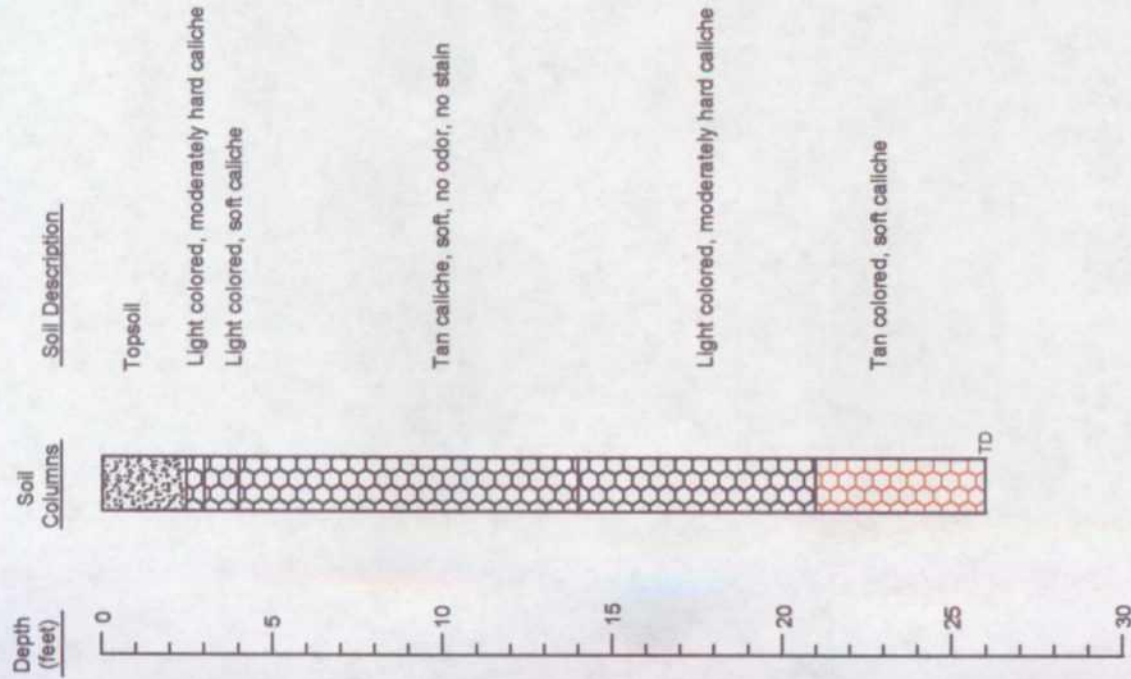
EOTT Energy Corp. Jimmy B Cooper, Lea County



Environmental Technology
Group, Inc.

Scale: NTS
August 1, 2001
Prep By: RS
Checked By: BB
ETGI Project # EOT 2074C

Monitoring Well MW-25



Monitoring Well Details

Date Drilled: 07-19-01
 Thickness of Bentonite Seal: 12 ft
 Length of PVC Well Screen: 10 ft
 Depth of PVC Well: 25 ft
 Depth of Exploratory Well: 25 ft
 Depth to Ground Water: 25 ft



Completion Notes

1. The monitoring well was installed on date using air rotary drilling techniques.
2. The well was constructed with 2" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
3. The well is protected with a locked stick up steel cover and a compression cap.
4. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
5. The depths indicated are referenced from the ground surface.

Boring Log And Monitoring Well Details

Monitoring Well - 25

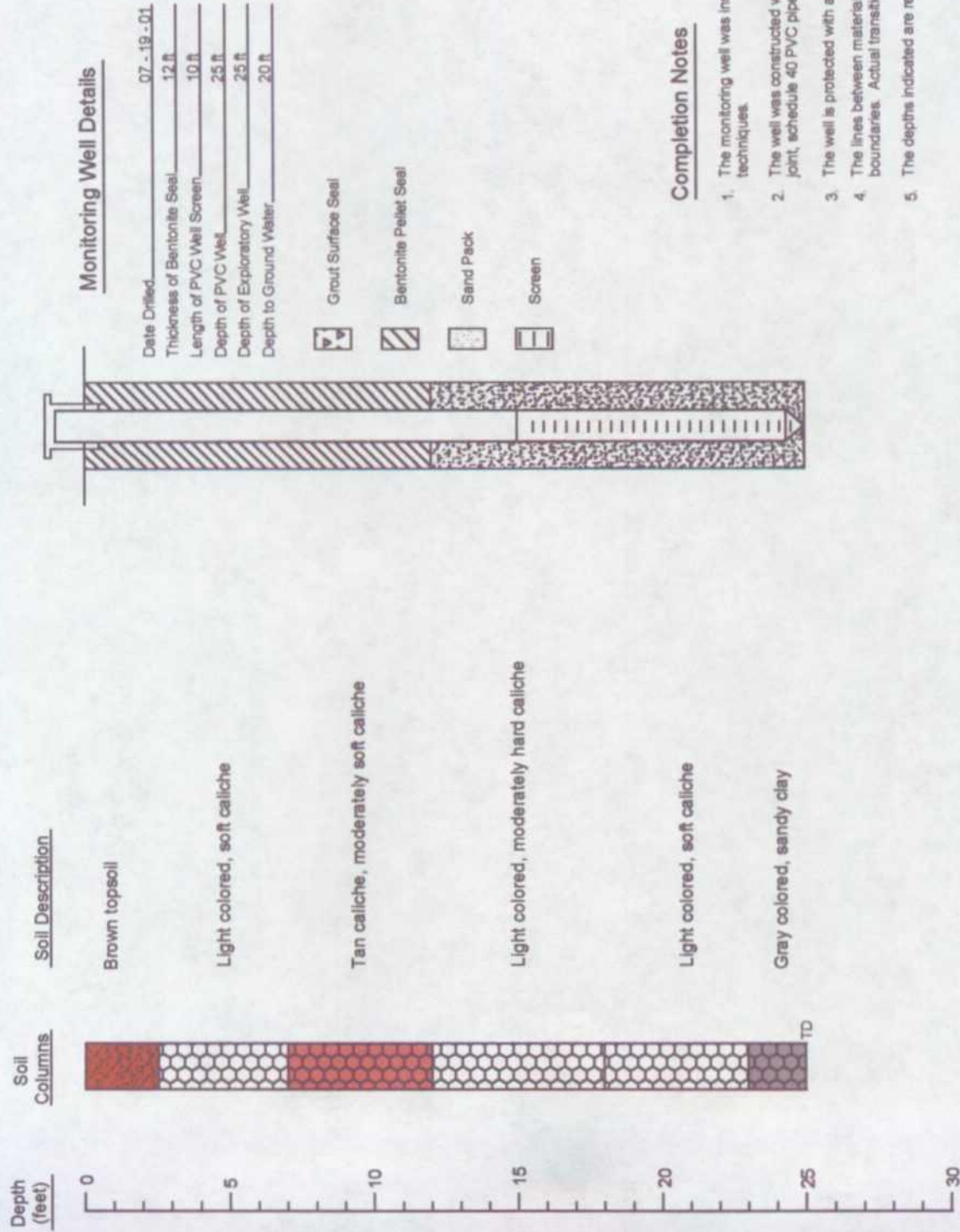
EOTT Energy Corp. Jimmy B Cooper, Lea County



Environmental Technology Group, Inc.

Scale: NTS
 August 1, 2001
 Prep By: RS
 Checked By: BB
 ETOI Project # EOT 2074C

Monitoring Well MW-26



Completion Notes

1. The monitoring well was installed on date using air rotary drilling techniques.
2. The well was constructed with 2" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
3. The well is protected with a locked stick up steel cover and a compression cap.
4. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
5. The depths indicated are referenced from the ground surface.

Boring Log And Monitoring Well Details

Monitoring Well - 26

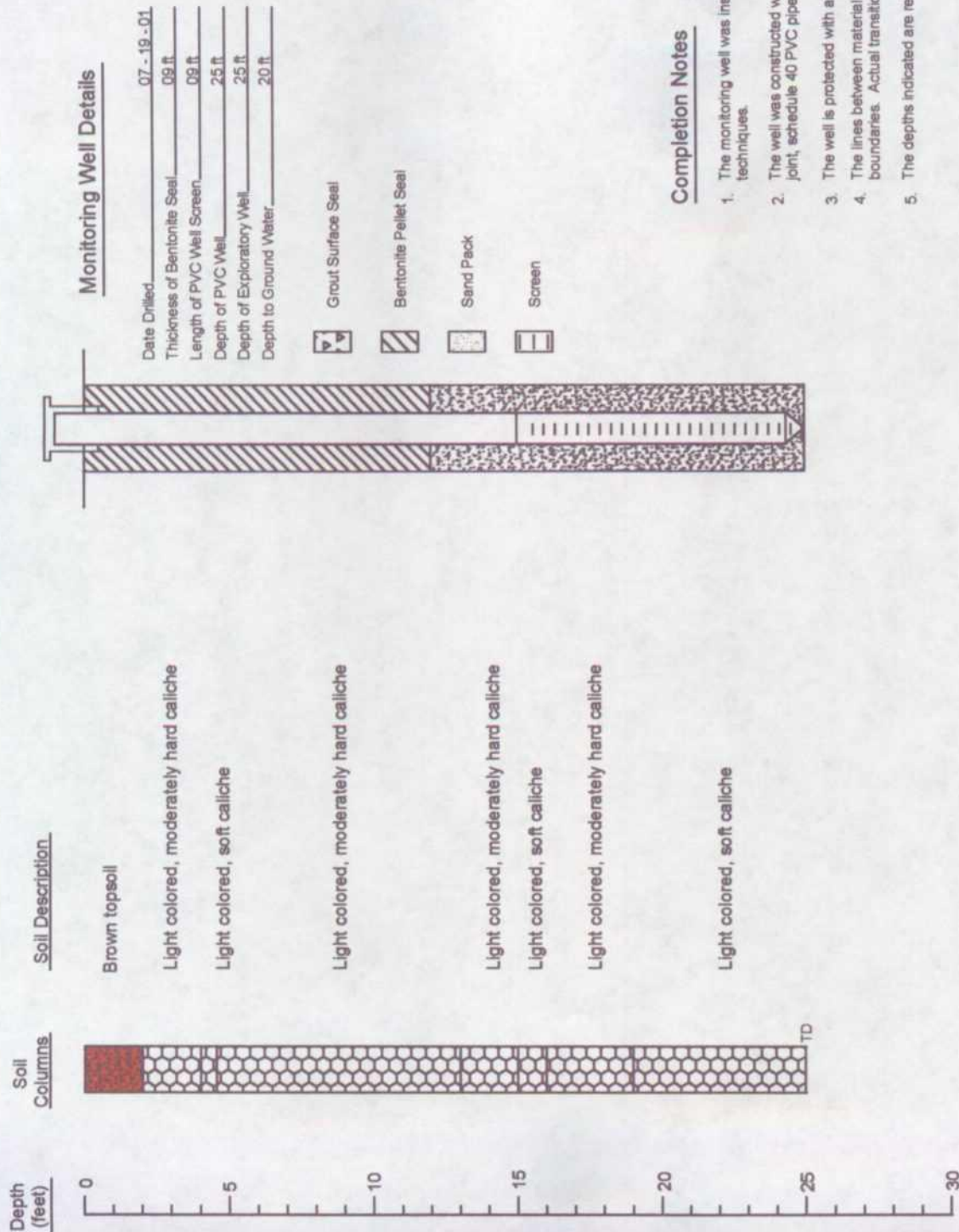
EOTT Energy Corp. Jimmy B Cooper, Lea County



Environmental Technology Group, Inc.

Scale: NTS	Prep By: RS	Checked By: BB
August 1, 2001		ETGI Project # EOT 2074C

Monitoring Well MW-27



Boring Log And Monitoring Well Details

Monitoring Well - 27

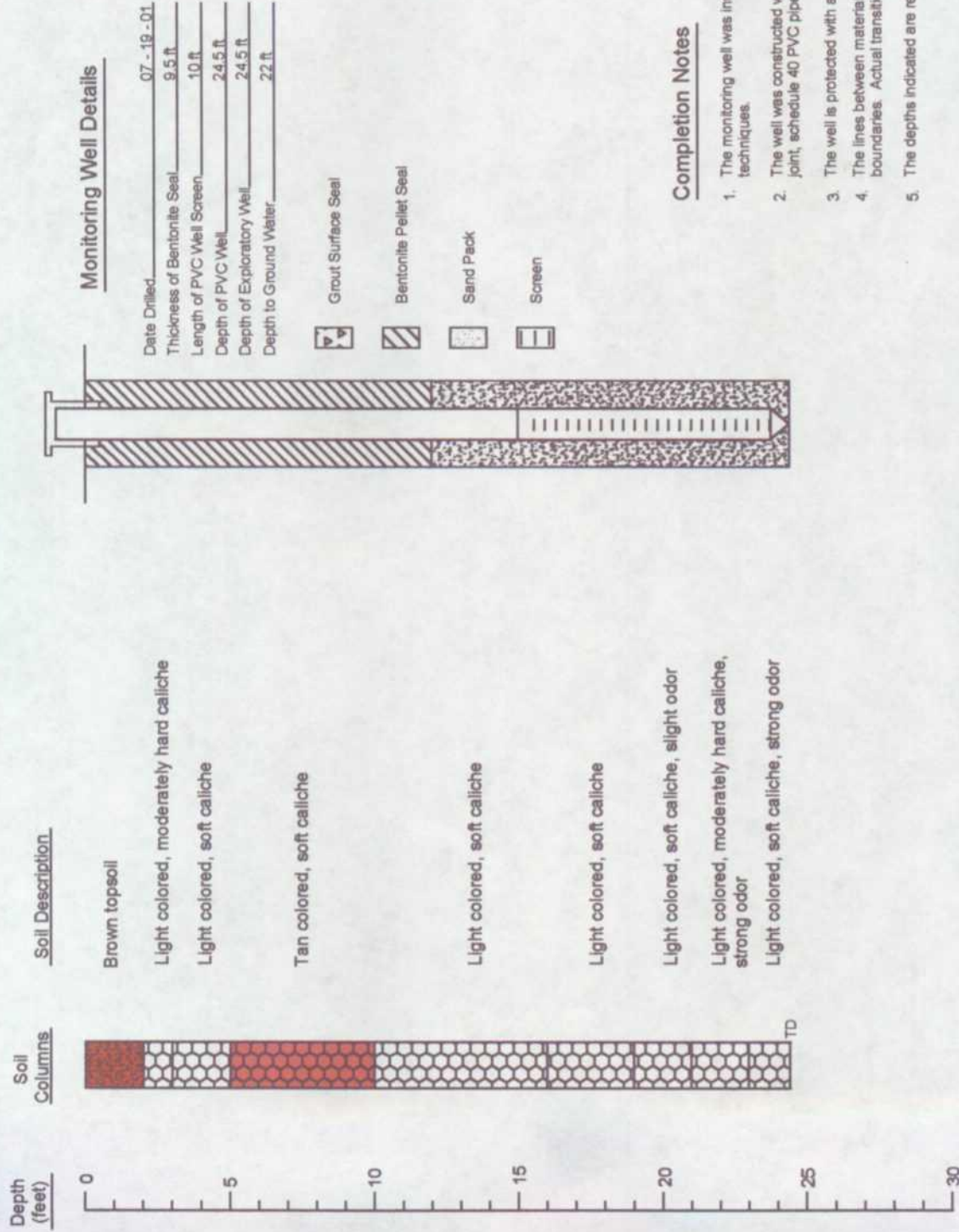
EOTT Energy Corp. Jimmy B Cooper, Lea County



Environmental Technology Group, Inc.

Scale: NTS
August 1, 2001
Prep By: RS
Checked By: BB
ETGI Project # EOT 2074C

Monitoring Well MW-28



Boring Log And Monitoring Well Details

Monitoring Well - 28

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Environmental Technology Group, Inc.

Scale: NTS
August 1, 2001
Prep By: RS
Checked By: BB
ETGI Project # EOT 2074C

Soil Columns

Soil Description

Brown topsoil
Light colored, soft caliche
Light colored, moderately hard caliche
Light colored, soft caliche
Reddish sandy silt, very soft
Light colored, moderately hard caliche
Light colored, soft caliche

Depth (feet)

0
5
10
15
20
25
30

Monitoring Well Details

Date Drilled: 07 - 19 - 01
Thickness of Bentonite Seal: 9.5 ft
Length of PVC Well Screen: 10 ft
Depth of PVC Well: 24 ft
Depth of Exploratory Well: 24 ft
Depth to Ground Water: 20 ft

Grout Surface Seal
Bentonite Pellet Seal
Sand Pack
Screen

Completion Notes

- The monitoring well was installed using the techniques.
- The well was constructed with a joint, schedule 40 PVC pipe.
- The well is protected with a cap.
- The lines between material boundaries. Actual transition points may vary.
- The depths indicated are to the top of the screen.

1. The monitoring well was installed on date using air rotary drilling techniques.
2. The well was constructed with 2" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
3. The well is protected with a locked stick up steel cover and a compression cap.
4. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
5. The depths indicated are referenced from the ground surface.

Boring Log And Monitoring Well Details

Monitoring Well - 29

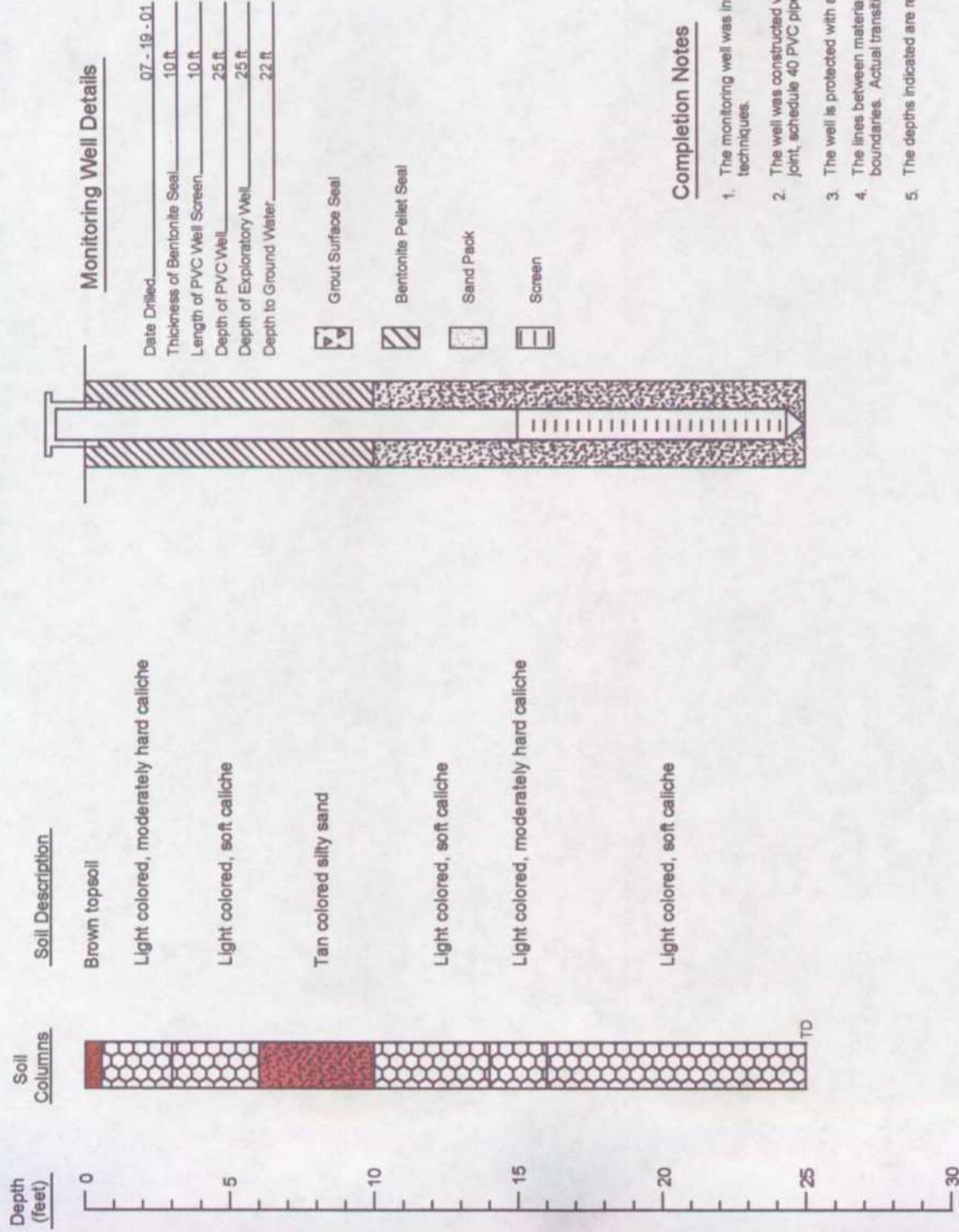
EOTT Energy Corp. Jimmy B Cooper, Lea County



**Environmental Technology
Group, Inc.**

Scale: NTS	Prep By: RS	Checked By: BB
August 1, 2001	ETG: Project # EOT 2074C	

Monitoring Well MW-30



Boring Log And Monitoring Well Details

Monitoring Well - 30

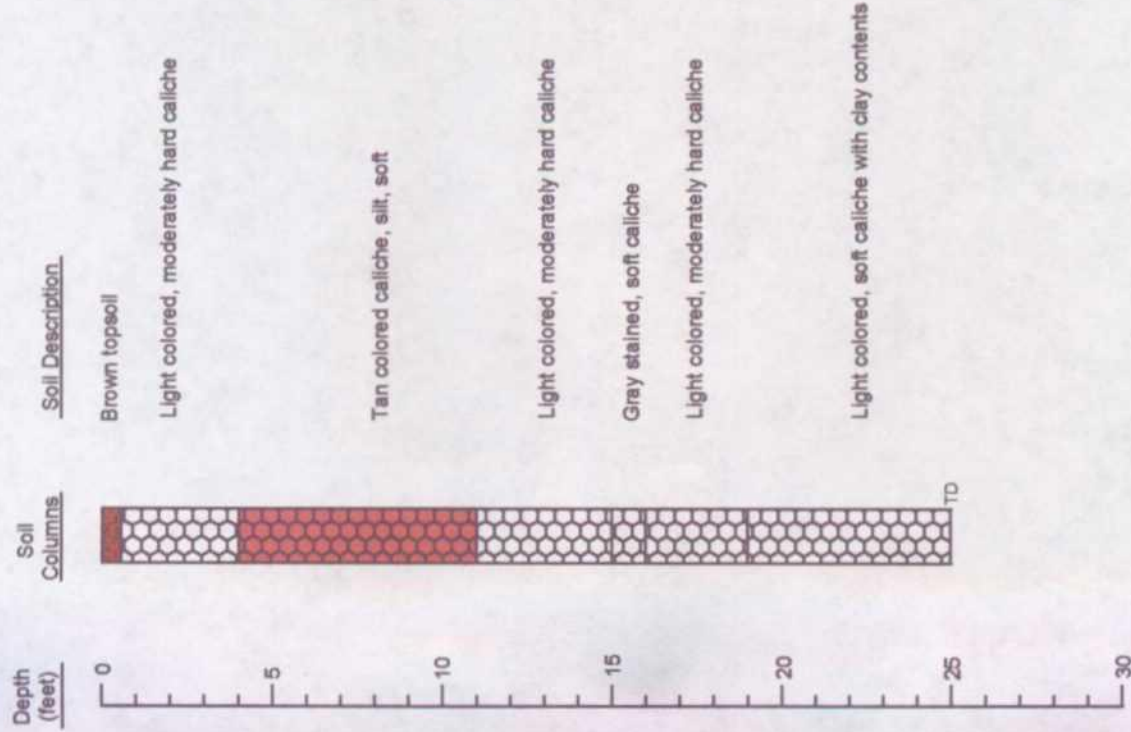
EOTT Energy Corp. Jimmy B Cooper, Lea County



Environmental Technology Group, Inc.

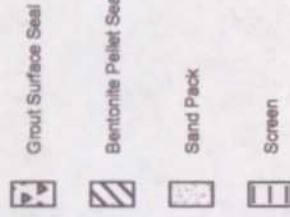
Scale: NTS
Prep By: RS
August 1, 2001
Checked By: BS
ETGI Project # EOT 2074C

Monitoring Well MW-31



Monitoring Well Details

Date Drilled 07-24-01
 Thickness of Bentonite Seal 11.5 ft
 Length of PVC Well Screen 10 ft
 Depth of PVC Well 25 ft
 Depth of Exploratory Well 25 ft
 Depth to Ground Water 22 ft



Completion Notes

1. The monitoring well was installed on date using air rotary drilling techniques.
2. The well was constructed with 2" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
3. The well is protected with a locked stick up steel cover and a compression cap.
4. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
5. The depths indicated are referenced from the ground surface.

Boring Log And Monitoring Well Details

Monitoring Well - 31

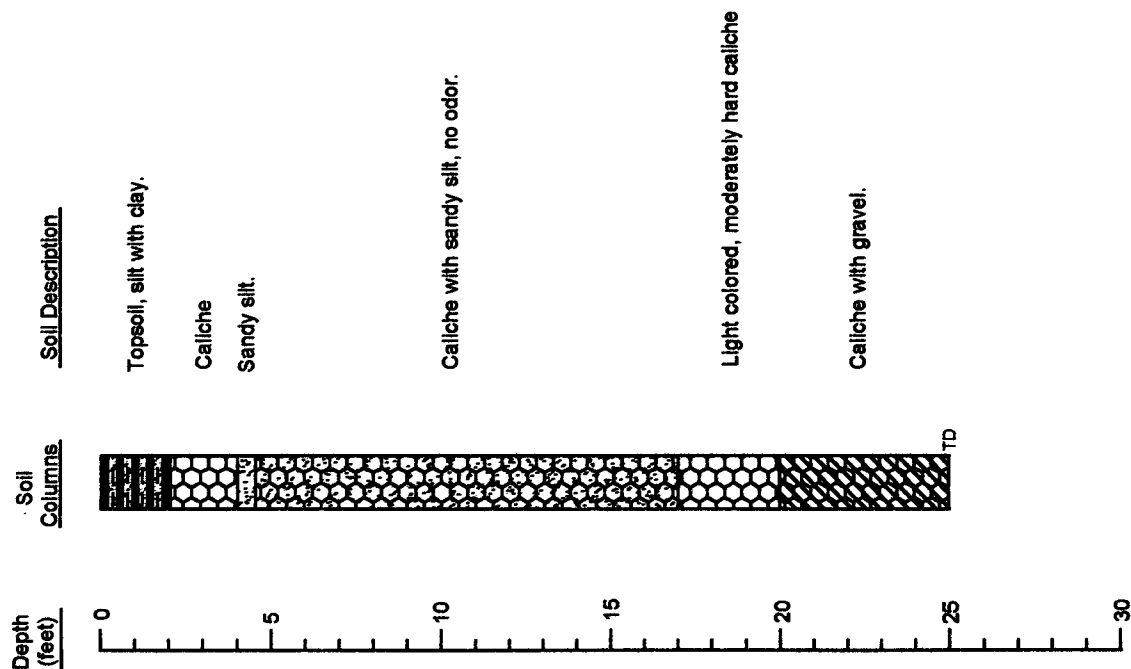
EOTT Energy Corp. Jimmy B Cooper, Lea County



Environmental Technology
 Group, Inc.

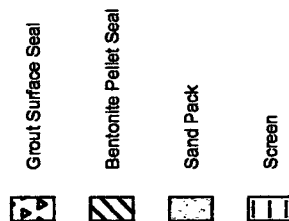
Scale: NTS
 August 1, 2001
 Prep By: RS
 Checked By: BS
 ETGI Project # EOT 2074C

Monitoring Well MW-32



Monitoring Well Details

Date Drilled 8-23-01
 Thickness of Bentonite Seal 11.5 ft
 Length of PVC Well Screen 10 ft
 Depth of PVC Well 25 ft
 Depth of Exploratory Well 25 ft



Completion Notes

1. The monitoring well was installed on date using air rotary drilling techniques.
2. The well was constructed with 2" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
3. The well is protected with a locked stick up steel cover and a compression cap.
4. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
5. The depths indicated are referenced from the ground surface.

Boring Log And Monitoring Well Details

Monitoring Well - 32

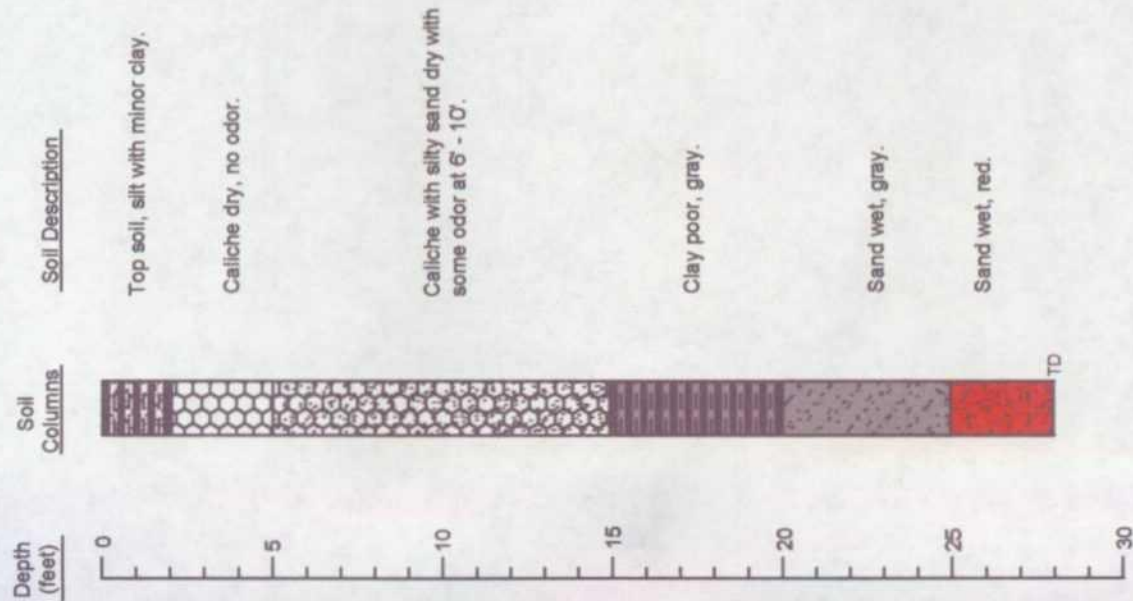
EOTT Energy Corp. Jimmy B Cooper, Lea County

Environmental Technology
Group, Inc.



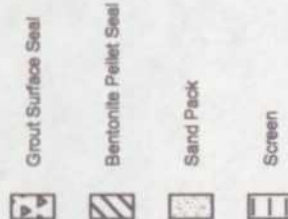
Scale: NTS
 May 1, 2002
 Prep By: JDU
 Checked By: BB
 ETGI Project # EOT 2074C

Monitoring Well MW-33



Monitoring Well Details

Date Drilled	8 - 24 - 01
Thickness of Bentonite Seal	2 ft
Length of PVC Well Screen	20 ft
Depth of PVC Well	28 ft
Depth of Exploratory Well	28 ft



Completion Notes

1. The monitoring well was installed on date using air rotary drilling techniques.
2. The well was constructed with 2" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
3. The well is protected with a locked stick up steel cover and a compression cap.
4. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
5. The depths indicated are referenced from the ground surface.

Boring Log And Monitoring Well Details

Monitoring Well - 33

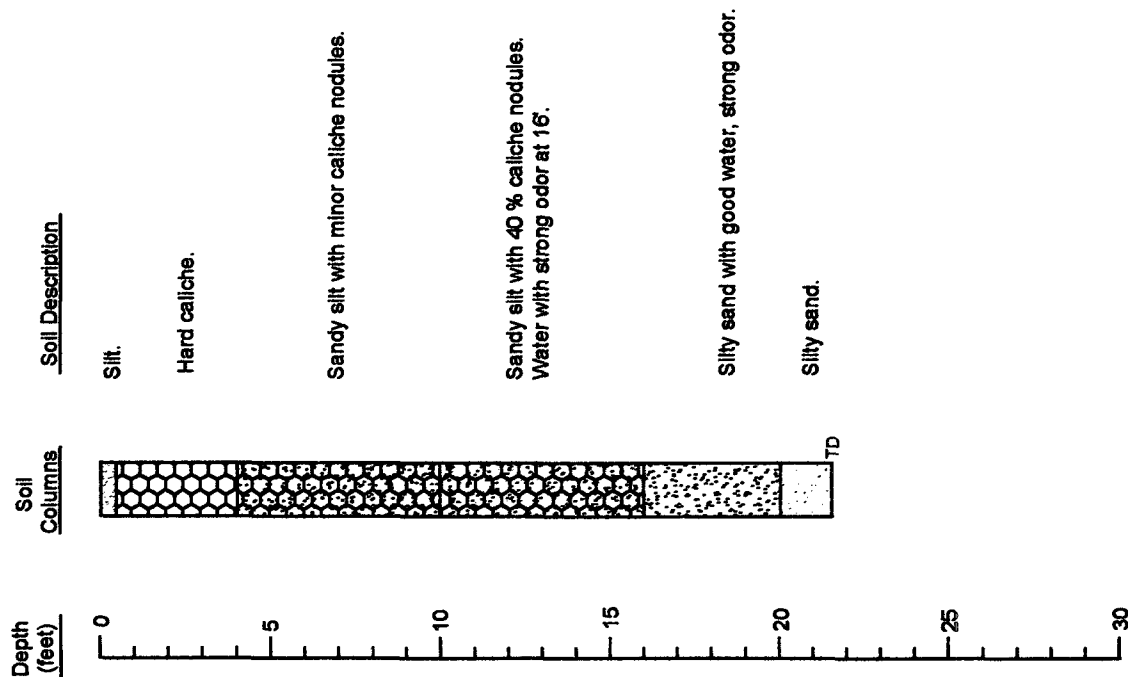
EOTT Energy Corp. Jimmy B Cooper, Lea County



Environmental Technology Group, Inc.

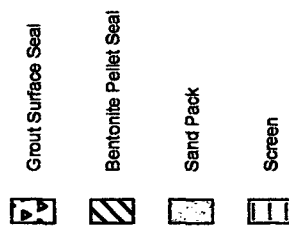
Scale: NTS	Prep By: JDU	Checked By: BB
May 1, 2002	ETGI Project # EOT 2074C	

Monitoring Well MW-34



Monitoring Well Details

Date Drilled: 8-27-01
 Thickness of Bentonite Seal: 2 ft
 Length of PVC Well Screen: 10 ft
 Depth of PVC Well: 20 ft
 Depth of Exploratory Well: 21.5 ft
 Depth to Ground Water: 10 ft



Completion Notes

1. The monitoring well was installed on date using air rotary drilling techniques.
2. The well was constructed with 2" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
3. The well is protected with a locked stick up steel cover and a compression cap.
4. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
5. The depths indicated are referenced from the ground surface.

Boring Log And Monitoring Well Details

Monitoring Well - 34

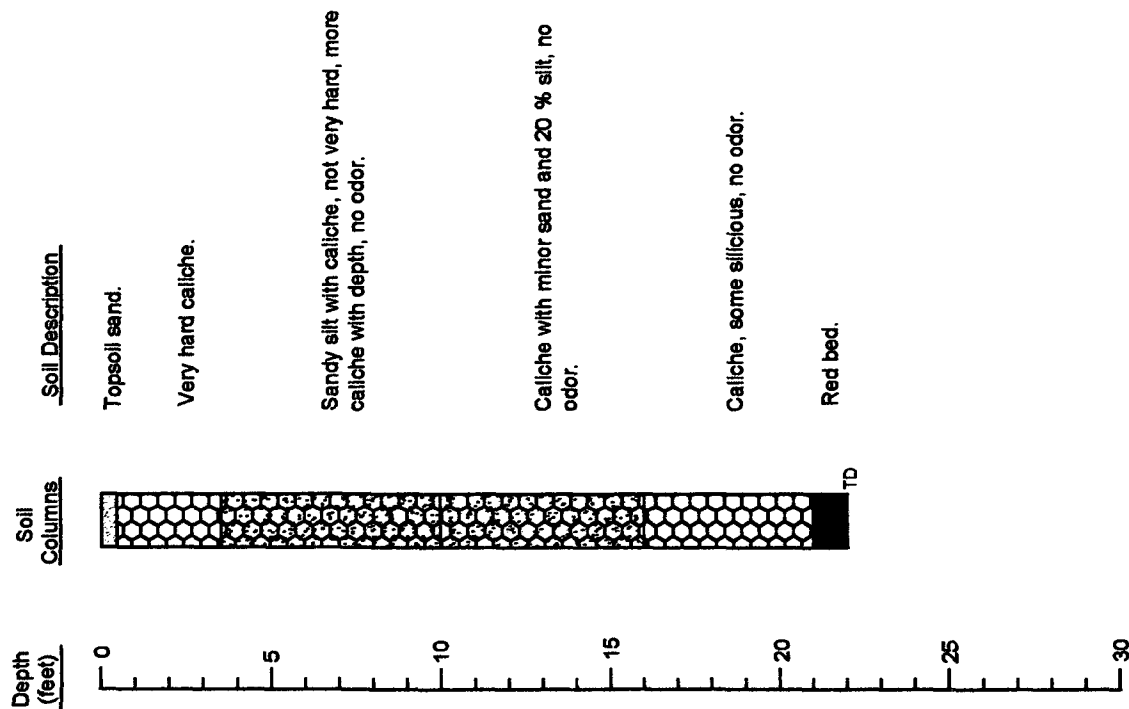
EOTT Energy Corp. Jimmy B Cooper, Lea County

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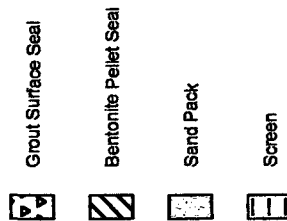
Scale: NTS
 May 1, 2002
 Prep By: JDU
 Checked By: BB
 ETGI Project # EOT 2074C

Monitoring Well MW-35



Monitoring Well Details

Date Drilled 8-27-01
 Thickness of Bentonite Seal 2 ft
 Length of PVC Well Screen 10 ft
 Depth of PVC Well 22 ft
 Depth of Exploratory Well 22 ft



Completion Notes

1. The monitoring well was installed on date using air rotary drilling techniques.
2. The well was constructed with 2" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
3. The well is protected with a locked stick up steel cover and a compression cap.
4. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
5. The depths indicated are referenced from the ground surface.

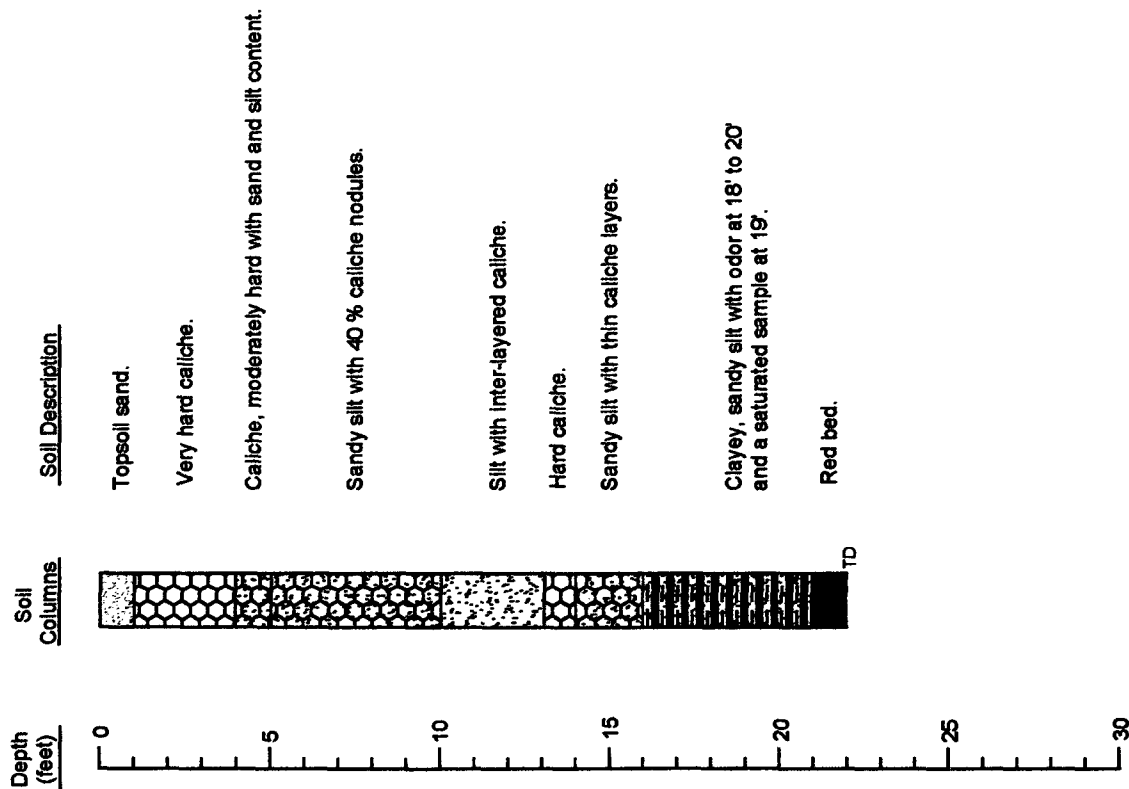
Boring Log And Monitoring Well Details
 Monitoring Well - 35
 EOTT Energy Corp. Jimmy B Cooper, Lea County



Environmental Technology
 Group, Inc.

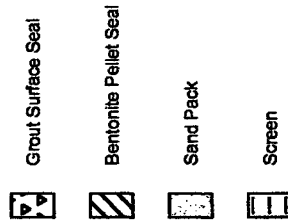
Scale: NTS
 May 1, 2002
 Prep By: JDI
 Checked By: BB
 ETGI Project # EOT 2074C

Monitoring Well MW-36



Monitoring Well Details

Date Drilled 8-28-01
 Thickness of Bentonite Seal 3 ft
 Length of PVC Well Screen 10 ft
 Depth of PVC Well 22 ft
 Depth of Exploratory Well 22 ft



Completion Notes

1. The monitoring well was installed on date using air rotary drilling techniques.
2. The well was constructed with 2" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
3. The well is protected with a locked stick up steel cover and a compression cap.
4. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
5. The depths indicated are referenced from the ground surface.

Boring Log And Monitoring Well Details

Monitoring Well - 36

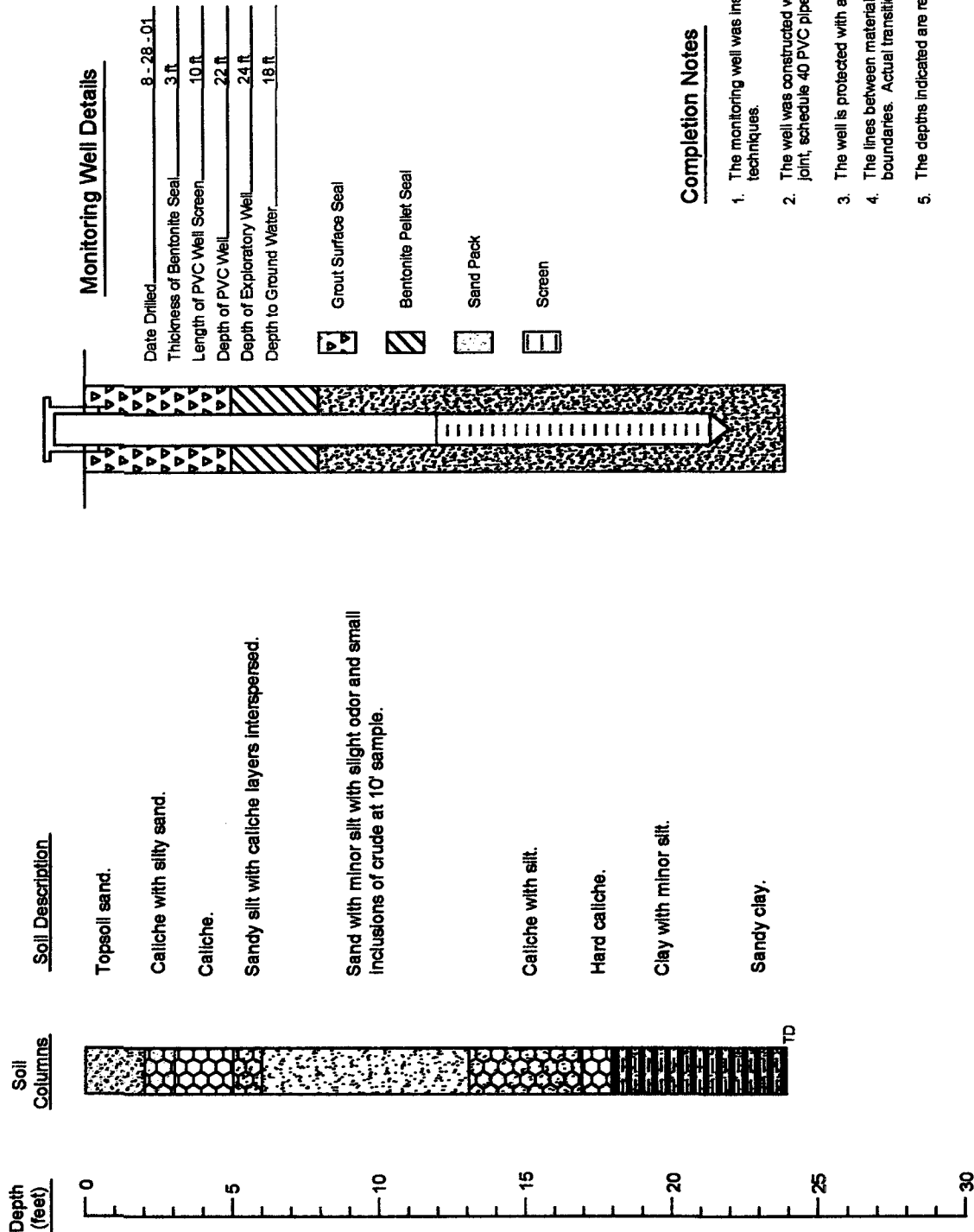
EOTT Energy Corp. Jimmy B Cooper, Lea County

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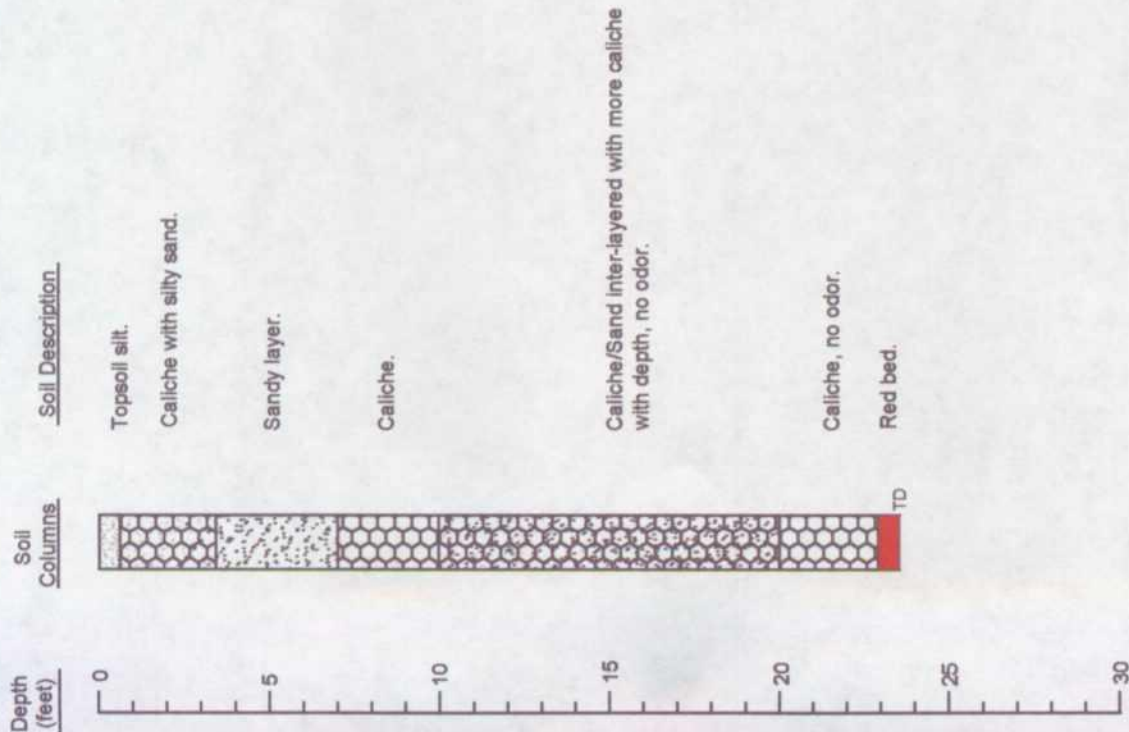


Scale: NTS
 May 1, 2002
 Prep By: JDI
 Checked By: BS
 ETGI Project # EOT 2074C

Monitoring Well MW-37

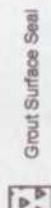


Monitoring Well MW-38

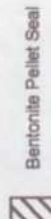


Monitoring Well Details

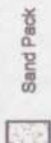
Date Drilled 8-28-01
 Thickness of Bentonite Seal 2 ft
 Length of PVC Well Screen 10 ft
 Depth of PVC Well 22 ft
 Depth of Exploratory Well 23.5 ft
 Depth to Ground Water 18 ft



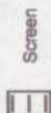
Grout Surface Seal



Bentonite Pellet Seal



Sand Pack



Screen

Completion Notes

1. The monitoring well was installed on date using air rotary drilling techniques.
2. The well was constructed with 2" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
3. The well is protected with a locked stick up steel cover and a compression cap.
4. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
5. The depths indicated are referenced from the ground surface.

Boring Log And Monitoring Well Details

Monitoring Well - 38

EOTT Energy Corp. Jimmy B Cooper, Lea County

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Scale: NTS

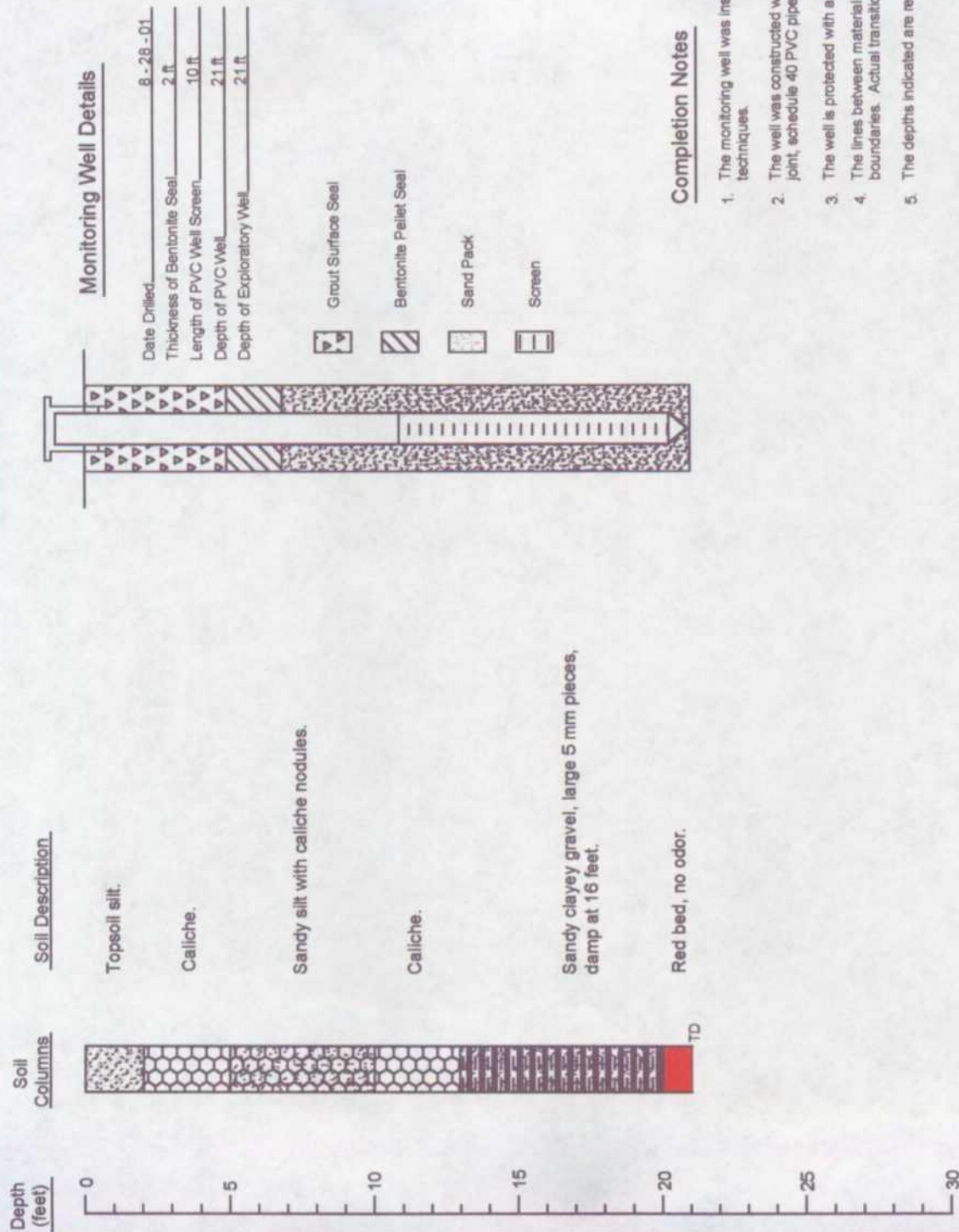
Prep By: JGJ

Checked By: BB

May 1, 2002

ETGI Project # EOT 2074C

Monitoring Well MW-39



Boring Log And Monitoring Well Details

Monitoring Well - 39

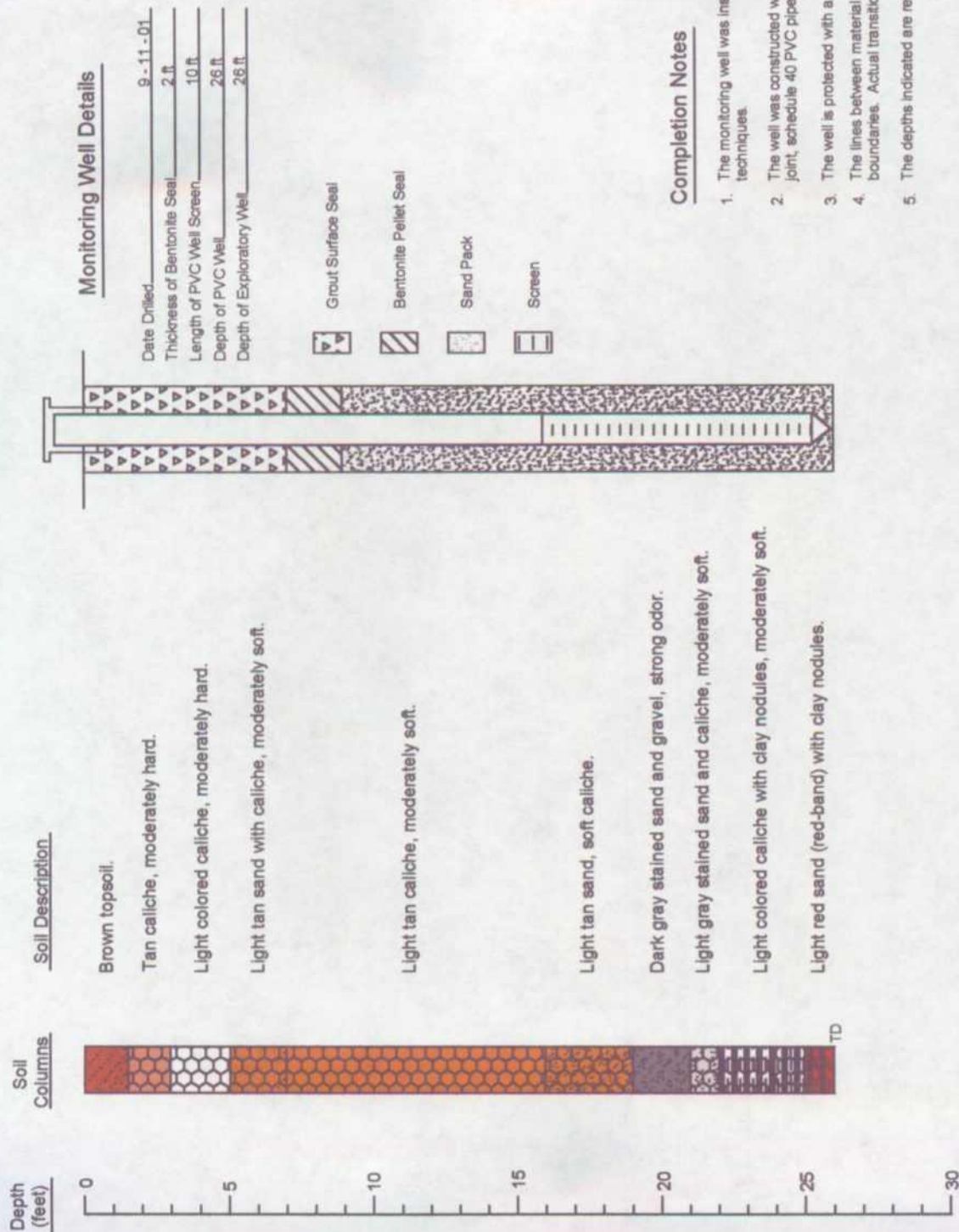
EOTT Energy Corp. Jimmy B Cooper, Lea County



Environmental Technology Group, Inc.

Scale: NTS
May 1, 2002
Prep By: JDU
Checked By: BB
ETGI Project # EOT 2074C

Monitoring Well MW-40



Completion Notes

1. The monitoring well was installed on date using air rotary drilling techniques.
2. The well was constructed with 2" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
3. The well is protected with a locked stick up steel cover and a compression cap.
4. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
5. The depths indicated are referenced from the ground surface.

Boring Log And Monitoring Well Details

Monitoring Well - 40

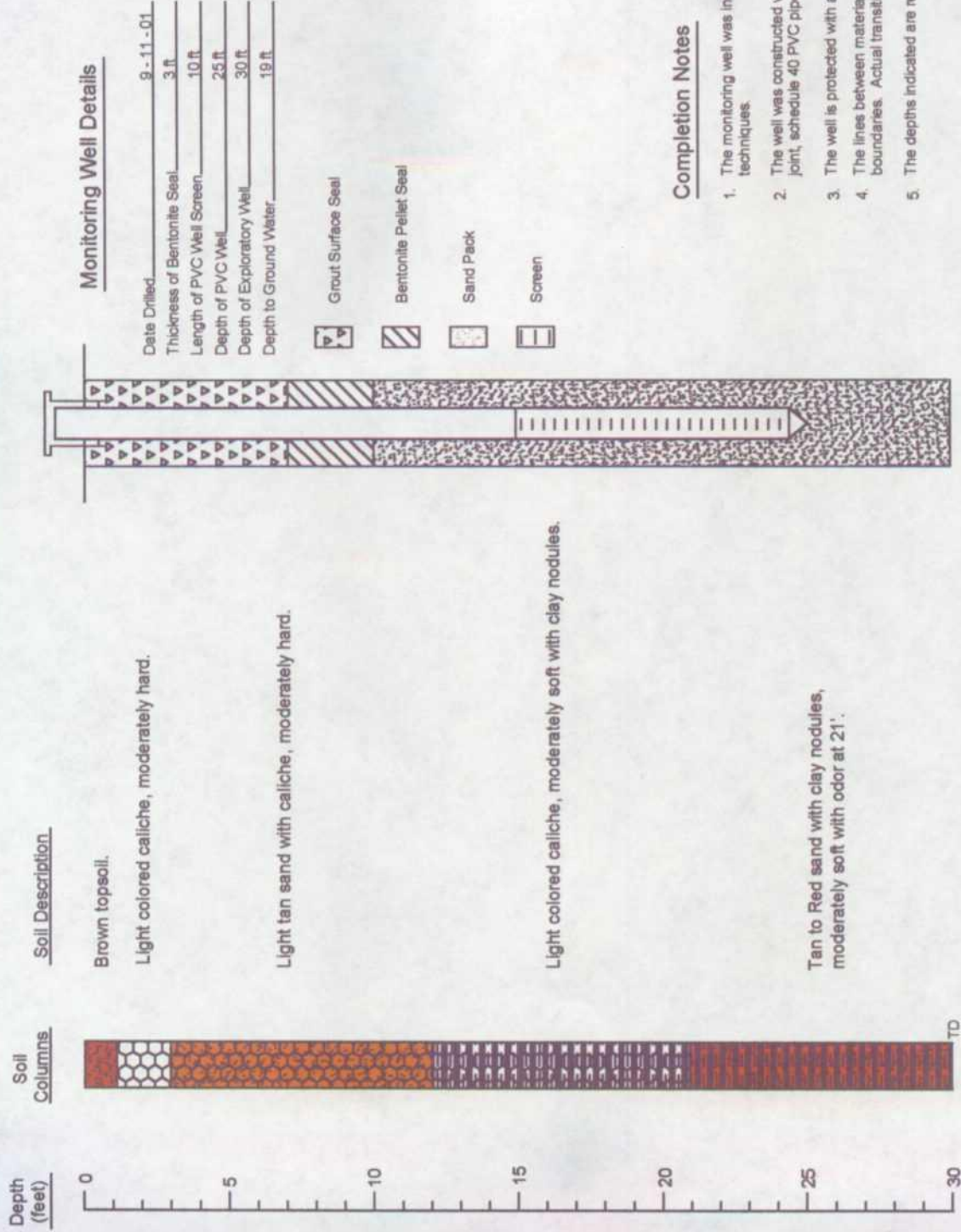
EOTT Energy Corp. Jimmy B Cooper, Lea County



Environmental Technology Group, Inc.

Scale: NTS	Prep By: JDU	Checked By: BB
May 1, 2002		ETGI Project # EOT 2074C

Monitoring Well MW-41



Completion Notes

1. The monitoring well was installed on date using air rotary drilling techniques.
2. The well was constructed with 2" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
3. The well is protected with a locked stick up steel cover and a compression cap.
4. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
5. The depths indicated are referenced from the ground surface.

Boring Log And Monitoring Well Details

Monitoring Well - 41

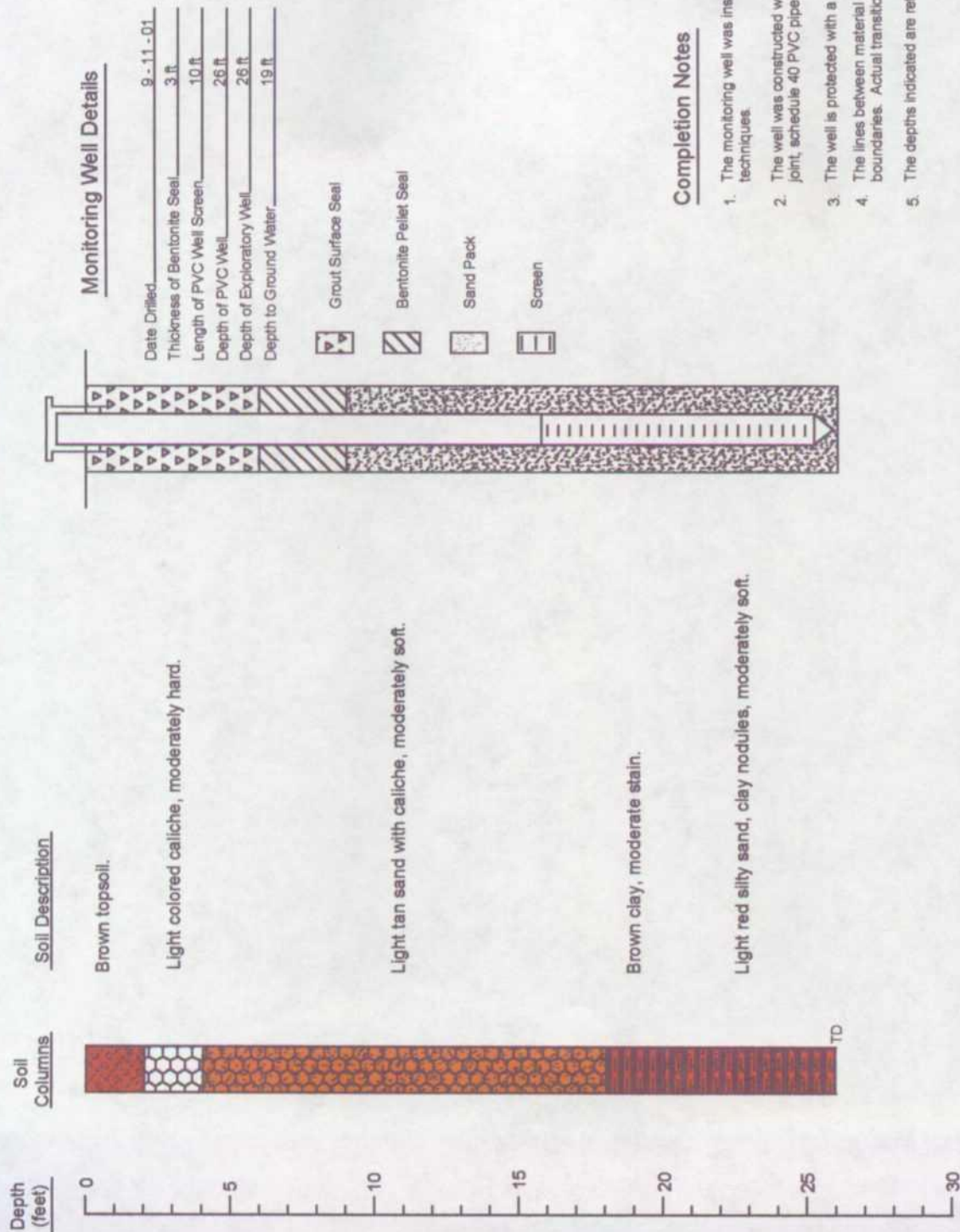
EOTT Energy Corp. Jimmy B Cooper, Lea County



Environmental Technology Group, Inc.

Scale: MTS	Prep By: JDU	Checked By: BB
May 1, 2002	ETGI Project # EOT 2074C	

Monitoring Well MW-42



Boring Log And Monitoring Well Details

Monitoring Well - 42

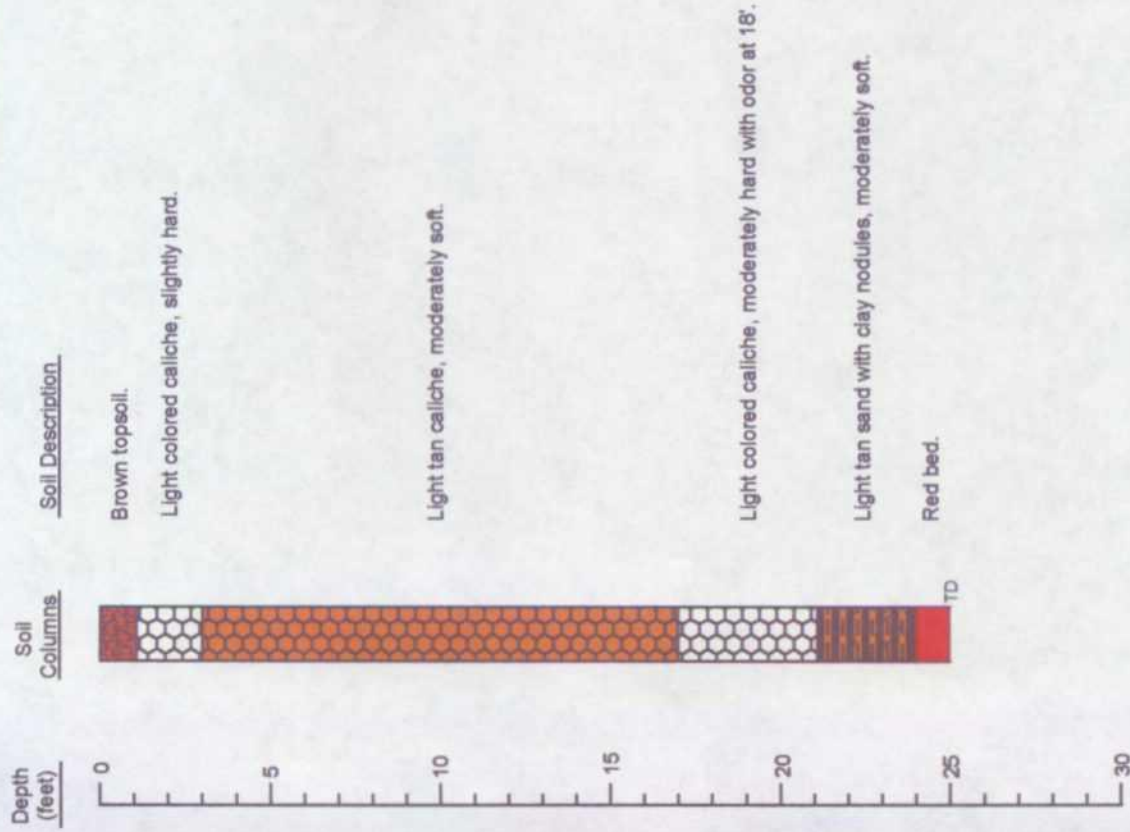
EOTT Energy Corp. Jimmy B Cooper, Lea County



Environmental Technology Group, Inc.

Scale: NTS
May 1, 2002
Prep By: JDU
Checked By: BB
ETGI Project # EOT 2074C

Monitoring Well MW-43



Monitoring Well Details

Date Drilled 9-12-01

Thickness of Bentonite Seal 2 ft

Length of PVC Well Screen 10 ft

Depth of PVC Well 25 ft

Depth of Exploratory Well 25 ft



Completion Notes

1. The monitoring well was installed on date using air rotary drilling techniques.
2. The well was constructed with 2" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
3. The well is protected with a locked stick up steel cover and a compression cap.
4. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
5. The depths indicated are referenced from the ground surface.

Boring Log And Monitoring Well Details

Monitoring Well - 43

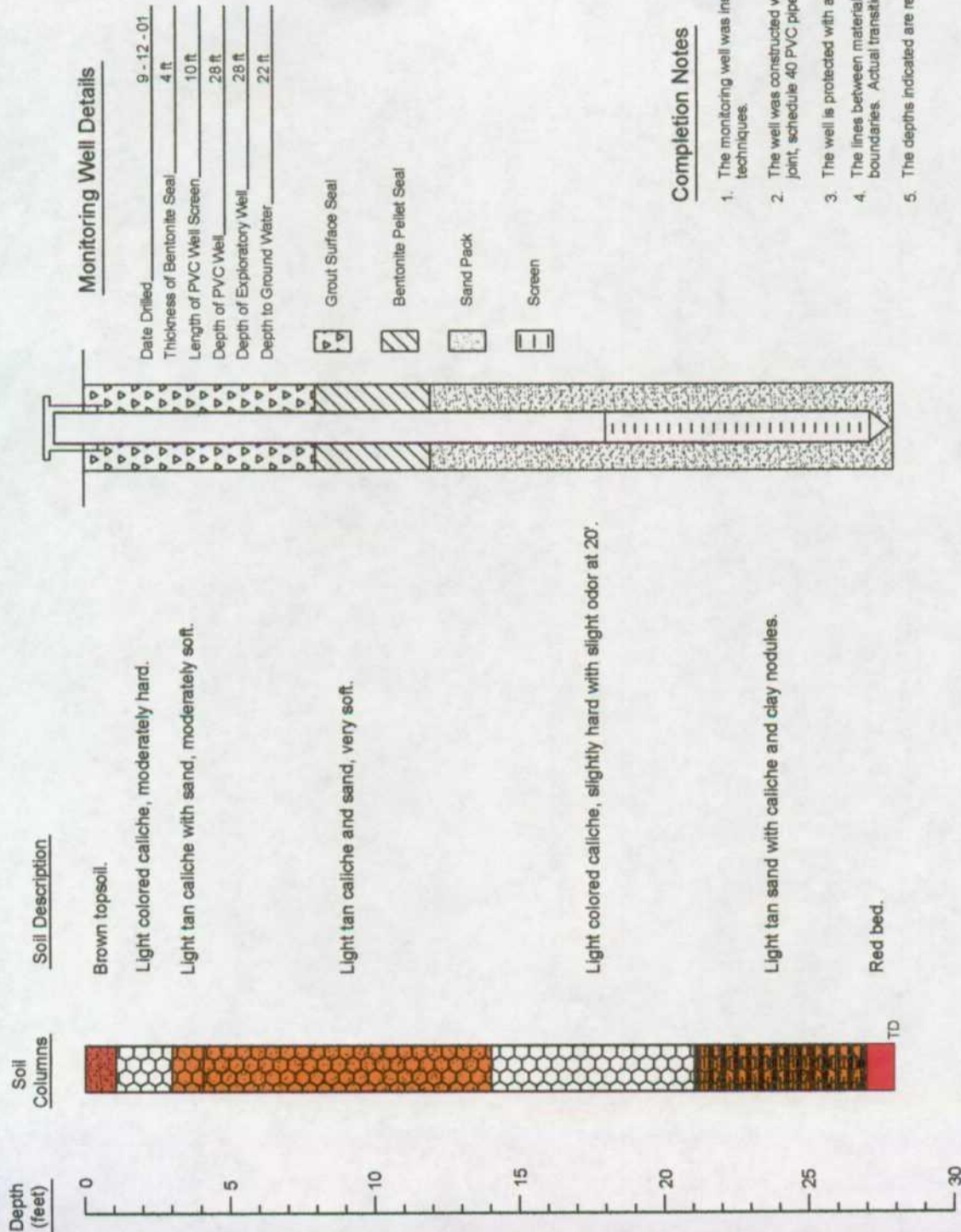
EOTT Energy Corp. Jimmy B Cooper, Lea County

Environmental Technology
Group, Inc.

Scale: NTS
May 1, 2002
Prep By: JDU
Checked By: BB
ETGI Project # EOT 2074C



Monitoring Well MW-44



Boring Log And Monitoring Well Details

Monitoring Well - 44

EOTT Energy Corp. Jimmy B Cooper, Lea County



Environmental Technology Group, Inc.

Scale: NTS

Prep By: JDU

Checked By: BB

May 1, 2002

ETGI Project # EOT 2074C

Former Headgate Tank Battery

Former Gull Tank Battery



LEGEND:

- Abandoned Irrigation Well Location
- Windmill Location
- Abandoned Water Well Location
- Domestic Well Location
- Monitor Well Location

Fence

Site Map

EOTT Energy Pipeline, LP
Jimmy Cooper Jr.
Lea County, NM



Environmental Technology
Group, Inc.

Scale: 1" = 160'

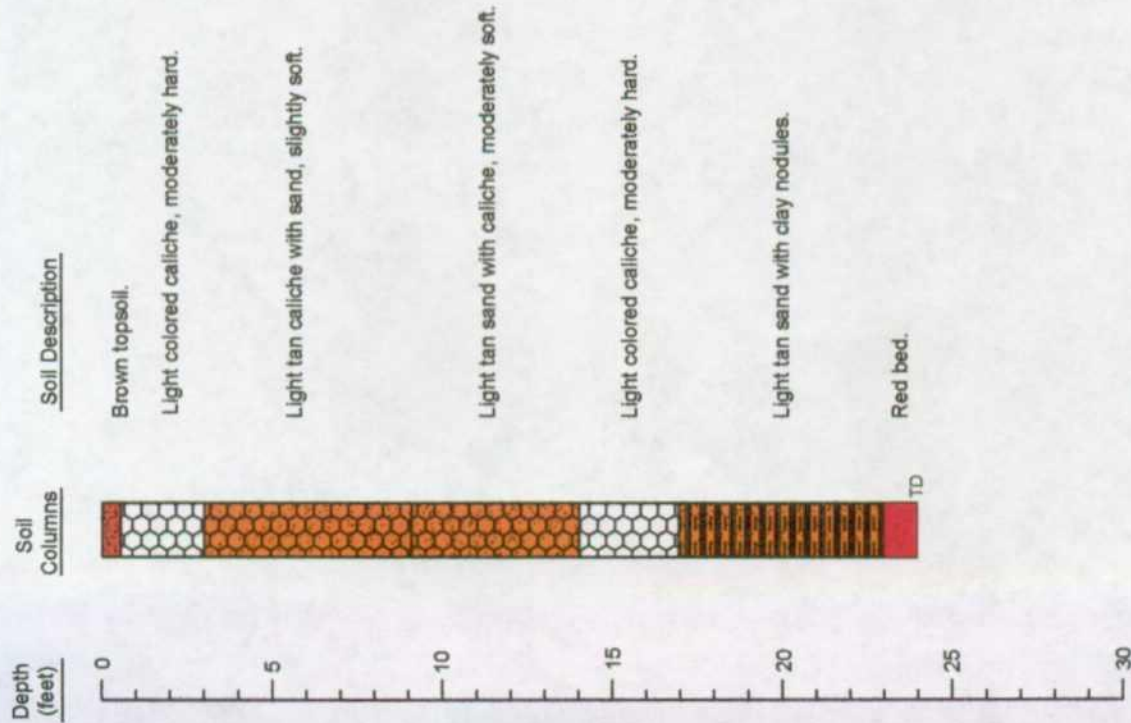
Prep By: JQJ

April 2, 2002

Checked By: BB

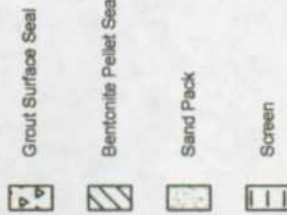
ETGI Project #: EOT2074C

Monitoring Well MW-45



Monitoring Well Details

Date Drilled 9-12-01
 Thickness of Bentonite Seal 3 ft
 Length of PVC Well Screen 10 ft
 Depth of PVC Well 28 ft
 Depth of Exploratory Well 28 ft
 Depth to Ground Water 19 ft



Completion Notes

1. The monitoring well was installed on date using air rotary drilling techniques.
2. The well was constructed with 2" ID, 0.020 inch factory slot, threaded joint, schedule 40 PVC pipe.
3. The well is protected with a locked stick up steel cover and a compression cap.
4. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
5. The depths indicated are referenced from the ground surface.

Boring Log And Monitoring Well Details

Monitoring Well - 45

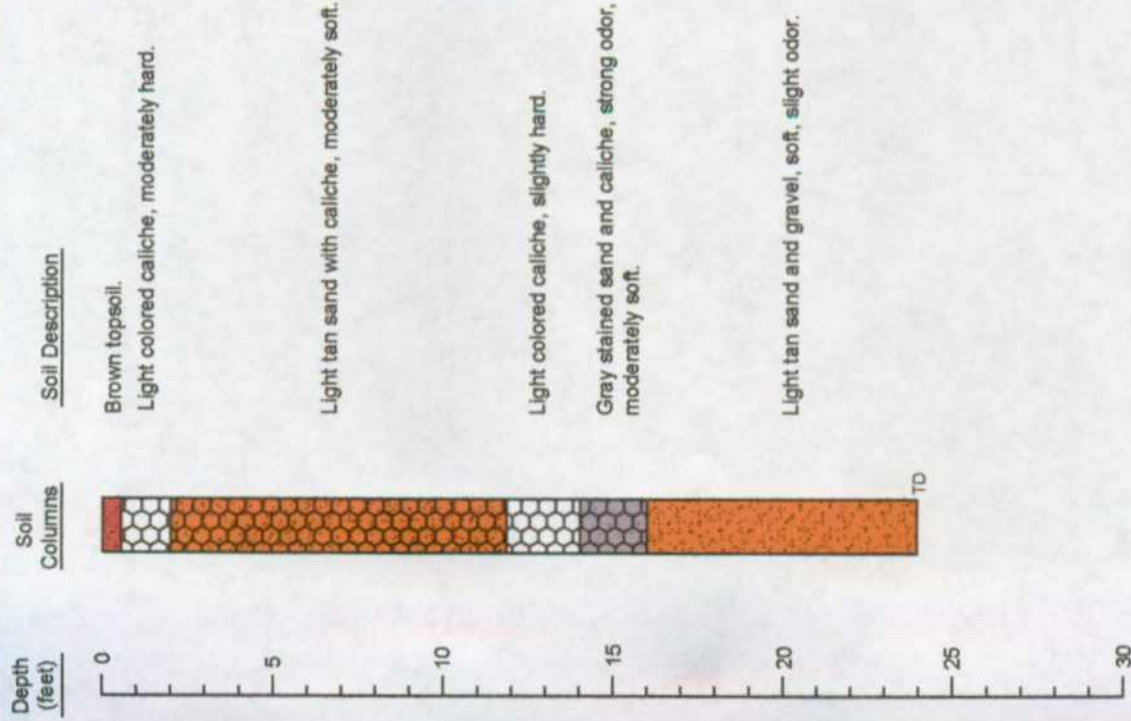
EOTT Energy Corp. Jimmy B Cooper, Lea County



Environmental Technology Group, Inc.

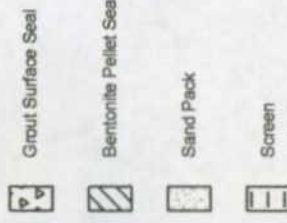
Scale: NTS
 May 1, 2002
 Prep By: JDU
 Checked By: BB
 ETGI Project # EOT 2074C

Monitoring Well MW-46



Monitoring Well Details

Date Drilled	9 - 12 - 01
Thickness of Bentonite Seal	2 ft
Length of PVC Well Screen	10 ft
Depth of PVC Well	24 ft
Depth of Exploratory Well	24 ft
Depth to Ground Water	17 ft



Completion Notes

1. The monitoring well was installed on date using air rotary drilling techniques.
2. The well was constructed with 2" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
3. The well is protected with a locked stick up steel cover and a compression cap.
4. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
5. The depths indicated are referenced from the ground surface.

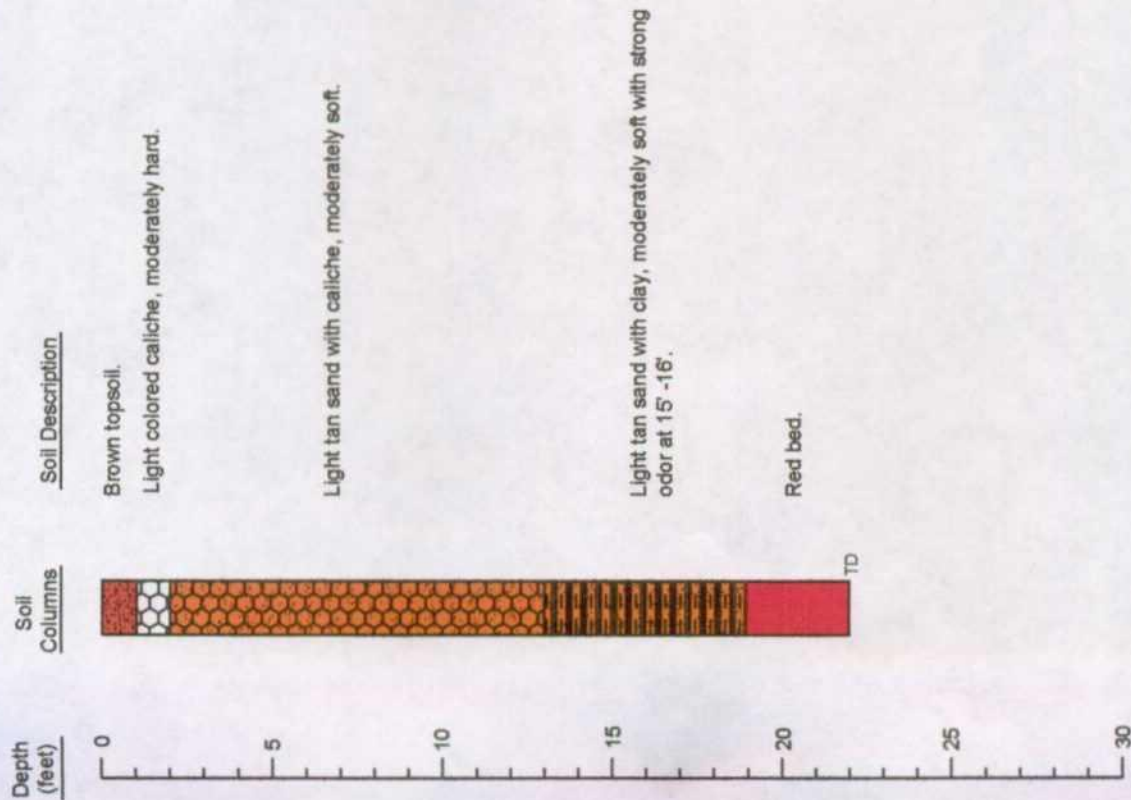
Boring Log And Monitoring Well Details
Monitoring Well - 46
EOTT Energy Corp. Jimmy B Cooper, Lea County



Environmental Technology
Group, Inc.

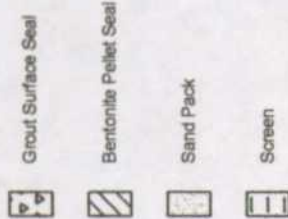
Scale: NTS
May 1, 2002
Prep By: JDI
Checked By: BB
ETGI Project # EOT 2074C

Monitoring Well MW-47



Monitoring Well Details

Date Drilled	9 - 12 - 01
Thickness of Bentonite Seal	3 ft
Length of PVC Well Screen	10 ft
Depth of PVC Well	22 ft
Depth of Exploratory Well	22 ft
Depth to Ground Water	17 ft



Completion Notes

1. The monitoring well was installed on date using air rotary drilling techniques.
2. The well was constructed with 2" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
3. The well is protected with a locked stick up steel cover and a compression cap.
4. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
5. The depths indicated are referenced from the ground surface.

Boring Log And Monitoring Well Details

Monitoring Well - 47

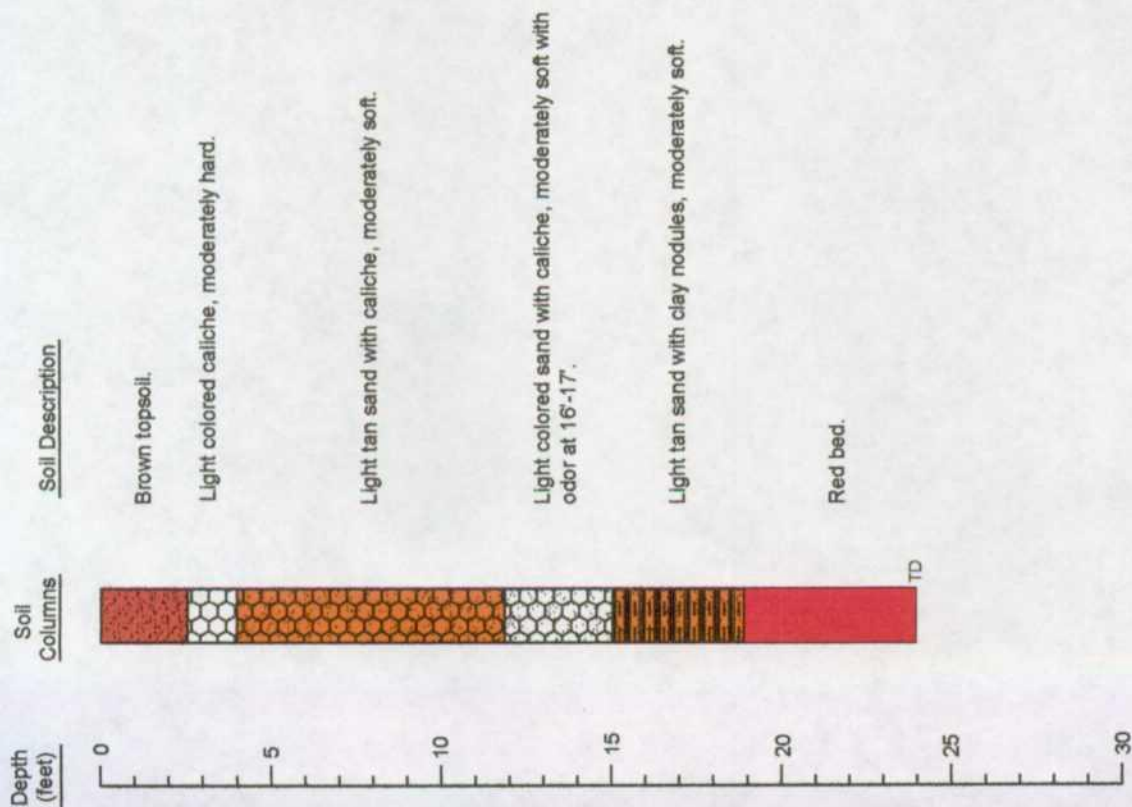
EOTT Energy Corp. Jimmy B Cooper, Lea County

Environmental Technology Group, Inc.



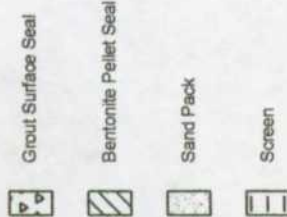
Scale: NTS
Prep By: JDU
Checked By: BB
May 1, 2002
ETGI Project # EOT 2074C

Monitoring Well MW-48



Monitoring Well Details

Date Drilled	9 - 13 - 01
Thickness of Bentonite Seal	3 ft
Length of PVC Well Screen	10 ft
Depth of PVC Well	24 ft
Depth of Exploratory Well	24 ft
Depth to Ground Water	17 ft



Completion Notes

1. The monitoring well was installed on date using air rotary drilling techniques.
2. The well was constructed with 2" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
3. The well is protected with a locked stick up steel cover and a compression cap.
4. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
5. The depths indicated are referenced from the ground surface.

Boring Log And Monitoring Well Details

Monitoring Well - 48

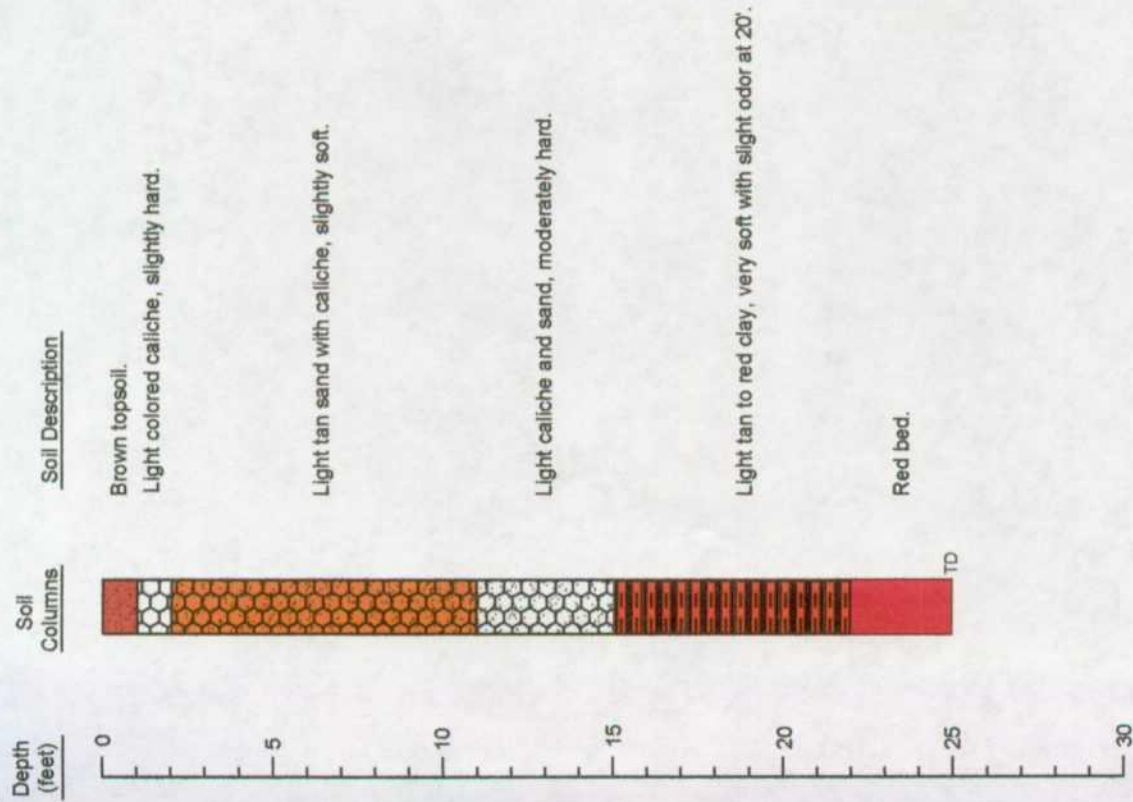
EOTT Energy Corp. Jimmy B Cooper, Lea County



Environmental Technology Group, Inc.

Scale: NTS	Prep By: JDU	Checked By: BB
May 1, 2002	ETGI Project # EOT 2074C	

Monitoring Well MW-49



Completion Notes

1. The monitoring well was installed on date using air rotary drilling techniques.
2. The well was constructed with 2" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
3. The well is protected with a locked stick up steel cover and a compression cap.
4. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
5. The depths indicated are referenced from the ground surface.

Boring Log And Monitoring Well Details

Monitoring Well - 49

EOTT Energy Corp. Jimmy B Cooper, Lea County



Environmental Technology Group, Inc.

Scale: NTS
Prep By: JDU
Checked By: BB
May 1, 2002
ETGI Project # EOT 2074C