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OIL CONSERVATION DIVISION

BP Amoco



**1999 Fourth Annual
Report**

AMOCO PIPE LINE
COMPANY
ARTESIA, NEW MEXICO

July 12, 1999



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1999
FOURTH ANNUAL REPORT
BPAmoco Pipeline Company Station
Artesia, New Mexico

1. INTRODUCTION

The objective of this Report is to provide the State of New Mexico Energy, Minerals & Natural Resources Department, Oil Conservation Division (OCD) information relative to activities and data collected at the subject site during the past 12 months (since June 1998). Activities completed since that time include the following:

- (1) gauging of fluid levels from site monitoring wells;
- (2) sampling of groundwater from Monitoring Wells MW-11 and MW-14 in August and December 1998 and in April and June 1999;
- (3) removal of the remediation equipment and restoration of soil conditions at the aeration sprinkler system;
- (4) relocation of the product storage tank to the Monitoring Well MW-2 site;
- (5) regular bailing of free phase hydrocarbon (FPH) from MW-2; and
- (6) submittal of a status report in December 1998.

These activities are discussed in detail in subsequent sections of this report.

Site History

A release of free phase hydrocarbon (FPH) was discovered at an BPAmoco Pipeline Company (BPAPL) site located approximately 12 miles southeast of Artesia, New Mexico (Site). BPAPL installed an interception trench and a groundwater separation/air stripper remediation system in November 1994 to control and remediate the FPH and dissolved hydrocarbon associated with the release. The system operated from that time until early 1997, when a request was made to and granted by the OCD to discontinue operation of the active remediation system due to lack of FPH and dissolved hydrocarbon in the monitoring wells in the vicinity of the remediation system at the site.

Quarterly reporting had been submitted to the OCD throughout operation of the remediation system. Annual reports have also been submitted, with the most recent

annual report being titled "Remediation System Operations Third Annual Report", dated June 30, 1998. That annual report describes activities that had occurred at the site from June 1997 through June 1998.

The report summarized current activities ongoing at the site, including:

- Monitoring of water levels in wells;
- Sampling Monitoring Wells MW-11 and MW-14 for BTEX; and
- Monitoring for FPH in wells.

As part of that report, Clayton Environmental Consultants (Clayton) concluded that the migration of free product had apparently stopped. Additionally, no dissolved BTEX had been detected in the downgradient wells MW-11 and MW-14 during the reported year of regular sampling. The historic groundwater sampling data taken from the Clayton report are included in Appendix A of this report. Site figures showing historic FPH thicknesses are also included in Appendix A.

2.0 ACTIVITIES DURING THE PAST YEAR

2.1 Fluid Level Gauging

During the period from June 1998 through June 1999, fluid levels from site monitoring wells were gauged. The 1998 gauging events (not included in the Clayton Annual Report) were conducted on May 29, June 30, July 23, August 19, and December 5, and the 1999 events on April 1 and June 3. Results of the gauging are presented in Table 1. Historic graphs of the depth to water data versus time are included on Figures 2 through 15. The data indicate the depth to water in the site wells generally increased (water levels dropped) during 1998 and early-1999, but the water levels in the recent June gauging are higher, reflecting the influence on the water table from recent increases in precipitation. Consistent with previous reports, Figures 16 through 19 contain maps showing water

level depth data for four selected quarters during the past year (August and December 1998, April and June 1999).

The fluid level data indicate that FPH thickness increased in MW-4 during December 1998, but the levels decreased back to zero by June 1999. This occurrence of FPH may be due to the drop of water levels during the same period. FPH thicknesses in the remaining wells either remained relatively constant or decreased. Overall, FPH thicknesses have decreased substantially since the release occurred.

2.2 *Groundwater Sampling*

Consistent with work conducted by Clayton, groundwater samples were collected regularly from Monitoring Wells MW-11 and MW-14 and submitted to a laboratory for BTEX analysis. Samples were collected in August and December 1998 and in April and June 1999. Laboratory analytical results are included in Appendix B. The results indicate that no BTEX constituents were detected in either well during the sampling period.

Annual sampling of other monitoring wells that did not historically contain FPH was not conducted during the reporting period. The wells included in the annual sampling are MW-4, MW-6, MW-7, MW-8, MW-10, MW-12, and MW-13. Those wells are scheduled for sampling in August/September 1999. Following sampling, MW-6, MW-7, MW-10, and MW-13 from this group of monitoring wells will be abandoned, as specified in the December 1998 Summary Report, unless the analytical data indicate significant increases in dissolved BTEX content. Other wells to be abandoned include MW-1, MW-5, and MW-9. Abandonment activities are scheduled for December 1999.

2.3 Removal of Remediation Equipment and Restoration of Soil Conditions

During October 1998, personnel from BEI met at the site with Mr. Jack Ford and Mr. Mike Stubblefield of the OCD. The primary purpose of the meeting was to discuss the status of the project, and to detail the removal of the remediation treatment system/building.

The treatment system was dismantled during late-November and early-December 1998. All equipment was removed from the treatment area at that time. The product storage tank was relocated to the tank battery area for storage of FPH removed from MW-2, as discussed later in this report. Details of the system dismantling were also discussed in the December 1998 Status Report.

The New Mexico Land Commission expressed a concern related to soils in the area where the sprinkle irrigation system sprayed treated water from the air stripper (letter to BPAPL from Mr. Mike Matush dated August 4, 1998). Mr. Matush stated that the site should be returned to a productive state following removal of the interception trench and treatment shed. He also requested that BPAPL determine the extent of damage in the sprayed area by conducting soil testing. The effluent sprinkle irrigation system, which is no longer operational, was located adjacent to and west of the stripper building (see Figure 1).

The area discussed above was inspected by BEI, and soil samples were collected during October 1998 and submitted to a laboratory for analysis of potential contaminants resulting from sprinkler operations from the air stripper effluent. Results of that investigation were included in the Status Report submitted to the OCD by BEI in December 1998.

Following removal of the equipment and building, the area in the vicinity of the remediation building, including the sprinkle irrigation system, was restored to its natural condition. The suspected impacted soil area was restored to its natural condition by

removing clean soil from the area of the diversion berm and spreading it over the gypsum outcrop area. Following spreading, the soil area was regraded to allow natural drainage of surface water and to establish conditions that will be conducive for growth of native vegetation. Erosion control mounds were built into the restored soil area to prevent erosion during intense storm events until vegetation is established.

2.4 Relocation of the Product Storage Tank to MW-2

After the remediation building was dismantled, the product storage tank located outside of and south of the treatment building was moved to the area adjacent to MW-2. This was done to allow easy storage of FPH removed from that well.

2.5 Regular Bailing of FPH from MW-2

Beginning in April 1999, a program to regularly remove FPH from Monitoring Well MW-2 was initiated. To date, this activity has occurred two times, with approximately 3 gallons of FPH removed each time. As discussed in Section 3, the bailing is intended to be a temporary hydrocarbon removal technique until a permanent system is installed sometime in August/September 1999.

2.6 Submittal of a Status Report in December 1998

A Status Report with information relative to the dismantling of the remediation system and restoring the soil surrounding the sprinkler aeration system was submitted to the OCD in December 1998. That report also included recommendations for future monitoring and remediation at the site. Those recommendations are included in Section 3 of this report.

3. RECOMMENDATIONS FOR FUTURE MONITORING/REMEDATION

The following recommendations for future monitoring and remediation are based on review of the existing information, including data gathered during the past 12 months.

As stated in the December 1998 Status Report, several of the monitoring wells at the site have either never had measurable accumulations of FPH, or have not had measurable amounts in the past several quarters. Additionally, many have had little or no dissolved BTEX concentrations. Fluid levels collected during early-June 1999 indicate that Monitoring Wells MW-2 and MW-3 are the only wells that had accumulations of FPH (3.10 ft and 0.03 ft, respectively, Table I).

The current monitoring and sampling program requires quarterly monitoring of fluid levels in all monitoring wells, and quarterly sampling and BTEX analysis from MW-11 and MW-14. In addition, the program calls for annual groundwater sampling from Monitoring Wells MW-4, MW-6, MW-7, MW-8, MW-10, MW-12, and MW-13. BPAPL believes that the objective of the groundwater-monitoring program can be met by conducting monitoring from a representative cross section of wells extending from the release area through the former treatment area. Therefore, BPAPL recommends selected monitoring wells be abandoned and excluded from the current monitoring program. The specific monitoring wells recommended for abandonment include:

- MW-1
- MW-5
- MW-6
- MW-7
- MW-9
- MW-10
- MW-13.

Even with these seven monitoring wells abandoned, there will still be seven monitoring wells (MW-2, MW-3, MW-4, MW-8, MW-11, MW-12, and MW-14) for continued monitoring of the site groundwater conditions. The remaining wells are strategically located at the site to allow data collection without compromising the groundwater monitoring program. Data from these wells will continue to allow BPAPL to adequately evaluate critical elements, such as groundwater levels, FPH presence and thickness, and groundwater dissolved hydrocarbon concentrations at the site. BPAPL will abandon the monitoring wells by the end of September 1999.

In addition to abandoning the seven monitoring wells, BPAPL also requests that groundwater sampling from Monitoring Wells MW-11 and MW-14 be performed semiannually, instead of quarterly, for one year. After that time, the need to continue sampling from those wells will be reevaluated. Those two wells will be sampled during August/September 1999 and March/April 2000. Also, the remaining wells that are sampled on an annual basis will be sampled during the August/September period. After that time, the need to continue sampling from those wells will also be reevaluated based on the groundwater BTEX concentrations and trends.

Recovery of FPH from monitoring well MW-2 has been implemented by hand bailing the FPH and placing it in a storage tank adjacent to the well. BPAPL is currently evaluating techniques for automatic FPH recovery from MW-2. The techniques being evaluated will allow for continuous recovery of FPH, instead of periodic recovery currently being performed. The recovered FPH will be pumped to the storage tank located next to MW-2. Methods for continuous FPH recovery being evaluated include hydrophilic skimmers along with low maintenance air or solar-powered pumping equipment; a self-adjusting pump also powered by either solar energy or on-site electricity that automatically adjusts the pump intake for changing water level; and wind-powered positive-displacement pumps for pumping total fluids to the storage tank. Specific details of the selected system will be furnished to the OCD for review and approval. We anticipate the selected system will be installed sometime in August or September 1999. FPH that is recovered from MW-2 will be periodically removed from the storage tank for proper disposal.



TABLE

TABLE 1
Monitoring Well Fluid Level Data
BPAmoco Pipeline Company
Artesia, New Mexico

| Well No. | Date | Depth to FPH, ft | Depth to Water, ft | FPH Thickness, ft |
|----------|----------|------------------|--------------------|-------------------|
| MW-1 | 5/21/93 | 20.52 | 20.73 | 0.21 |
| | 11/17/94 | 17.54 | 17.56 | 0.02 |
| | 2/9/95 | 18.02 | 18.05 | 0.03 |
| | 6/16/95 | 19.15 | 19.21 | 0.06 |
| | 10/2/95 | skim | 16.48 | skim |
| | 11/26/95 | 15.85 | 15.87 | 0.02 |
| | 4/16/96 | 14.32 | 14.33 | 0.01 |
| | 7/6/96 | 15.55 | 15.57 | 0.02 |
| | 9/30/96 | 11.70 | 11.75 | 0.05 |
| | 1/10/97 | 12.79 | 12.90 | 0.11 |
| | 4/2/97 | 13.60 | 13.62 | 0.02 |
| | 7/10/97 | 14.78 | 14.79 | 0.01 |
| | 10/17/97 | 14.62 | 14.63 | 0.01 |
| | 1/18/98 | none | 13.74 | 0.00 |
| | 4/18/98 | 13.75 | 13.76 | 0.01 |
| | 5/29/98 | none | 14.56 | 0.00 |
| | 6/30/98 | none | 14.9 | 0.00 |
| | 7/23/98 | none | 15.71 | 0.00 |
| | 8/19/98 | none | 16.49 | 0.00 |
| | 12/5/98 | none | 17.94 | 0.00 |
| 4/1/99 | none | 18.30 | 0.00 | |
| 6/3/99 | none | 17.65 | 0.00 | |
| MW-2 | 5/21/93 | 25.81 | 27.56 | 1.75 |
| | 11/17/94 | 23.28 | 26.67 | 3.39 |
| | 2/9/95 | 23.98 | 26.50 | 2.52 |
| | 6/16/95 | 25.63 | 26.45 | 0.82 |
| | 10/2/95 | 22.01 | 26.18 | 4.17 |
| | 11/26/95 | 21.23 | 26.17 | 4.94 |
| | 4/16/96 | 20.58 | 22.46 | 1.88 |
| | 7/6/96 | 21.86 | 25.18 | 3.32 |
| | 9/30/96 | 19.17 | 20.94 | 1.77 |
| | 1/10/97 | 20.20 | 22.98 | 2.78 |
| | 4/2/97 | 21.00 | 24.04 | 3.04 |
| | 7/10/97 | 22.41 | 23.50 | 1.09 |
| | 10/17/97 | 21.92 | 26.18 | 4.26 |
| | 1/18/98 | 20.03 | 24.00 | 3.97 |
| | 4/18/98 | 21.04 | 25.31 | 4.27 |
| | 5/29/98 | 21.68 | 25.86 | 4.18 |
| | 6/30/98 | 22.00 | 26.2 | 4.20 |
| | 7/23/98 | 23.08 | 26.25 | 3.17 |
| | 8/19/98 | 23.66 | 26.16 | 2.50 |
| | 12/5/98 | 24.90 | 26.70 | 1.80 |
| 4/1/99 | 25.15 | 26.47 | 1.32 | |
| 6/1/99 | 23.10 | 26.20 | 3.10 | |

TABLE 1 (cont.)
Monitoring Well Fluid Level Data

| Well No. | Date | Depth to FPH, ft | Depth to Water, ft | FPH Thickness, ft |
|----------|----------|------------------|--------------------|-------------------|
| MW-3 | 5/21/93 | 16.45 | 17.81 | 1.36 |
| | 11/17/94 | 13.07 | 13.65 | 0.58 |
| | 2/9/95 | 13.75 | 14.32 | 0.57 |
| | 6/16/95 | 15.20 | 15.84 | 0.64 |
| | 10/2/95 | 10.69 | 11.43 | 0.74 |
| | 11/26/95 | 9.69 | 10.41 | 0.72 |
| | 4/16/96 | 9.58 | 9.63 | 0.05 |
| | 7/6/96 | 11.70 | 11.80 | 0.10 |
| | 9/30/96 | 8.71 | 8.75 | 0.04 |
| | 1/10/97 | 10.33 | 10.40 | 0.07 |
| | 4/2/97 | 11.36 | 11.42 | 0.06 |
| | 7/10/97 | 13.02 | 13.10 | 0.08 |
| | 10/17/97 | 13.22 | 13.24 | 0.02 |
| | 1/18/98 | 10.68 | 10.78 | 0.10 |
| | 4/18/98 | 11.47 | 11.55 | 0.08 |
| | 5/29/98 | 12.34 | 12.45 | 0.11 |
| | 6/30/98 | 12.70 | 12.80 | 0.10 |
| | 7/23/98 | 13.95 | 14.02 | 0.07 |
| | 8/19/98 | 15.08 | 15.15 | 0.07 |
| | 12/5/98 | 16.4 | 16.5 | 0.10 |
| 4/1/99 | 16.00 | 16.08 | 0.08 | |
| 6/3/99 | 14.35 | 14.38 | 0.03 | |
| MW-4 | 11/17/94 | none | 28.28 | 0.00 |
| | 2/9/95 | none | 28.51 | 0.00 |
| | 6/16/95 | none | 29.58 | 0.00 |
| | 10/2/95 | none | 24.42 | 0.00 |
| | 11/26/95 | none | 22.61 | 0.00 |
| | 4/16/96 | none | 20.63 | 0.00 |
| | 7/6/96 | none | 26.44 | 0.00 |
| | 9/30/96 | none | 21.88 | 0.00 |
| | 1/10/97 | none | 25.24 | 0.00 |
| | 4/2/97 | none | 25.49 | 0.00 |
| | 4/18/98 | none | 25.02 | 0.00 |
| | 12/5/98 | 29.52 | 29.70 | 0.18 |
| 4/1/99 | 28.65 | 28.67 | 0.02 | |
| 6/3/99 | none | 26.48 | 0.00 | |

TABLE 1 (cont.)
Monitoring Well Fluid Level Data

| Well No. | Date | Depth to FPH, ft | Depth to Water, ft | FPH Thickness, ft |
|----------|----------|------------------|--------------------|-------------------|
| MW-5 | 11/17/94 | 16.22 | 24.19 | 7.97 |
| | 2/9/95 | 16.84 | 24.85 | 8.01 |
| | 6/16/95 | 19.44 | 21.14 | 1.70 |
| | 10/2/95 | 16.19 | 17.85 | 1.66 |
| | 11/26/95 | 17.58 | 19.31 | 1.73 |
| | 4/16/96 | 17.04 | 17.25 | 0.21 |
| | 7/6/96 | 16.20 | 16.36 | 0.16 |
| | 9/30/96 | 11.17 | 11.38 | 0.21 |
| | 1/10/97 | 13.45 | 13.60 | 0.15 |
| | 4/2/97 | 14.19 | 14.35 | 0.16 |
| | 7/10/97 | 16.22 | 16.25 | 0.03 |
| | 10/17/97 | 13.37 | 13.39 | 0.02 |
| | 1/18/98 | 13.57 | 13.58 | 0.01 |
| | 4/18/98 | 14.04 | 14.05 | 0.01 |
| | 5/29/98 | none | 15.09 | 0.00 |
| | 6/30/98 | none | 15.42 | 0.00 |
| | 7/23/98 | none | 17.30 | 0.00 |
| | 8/19/98 | 18.09 | 18.10 | 0.01 |
| | 12/5/98 | none | 18.94 | 0.00 |
| 4/1/99 | none | 19.48 | 0.00 | |
| 6/3/99 | none | 14.46 | 0.00 | |
| MW-6 | 11/17/94 | trace | 14.53 | trace |
| | 2/9/95 | none | 15.02 | 0.00 |
| | 6/16/95 | 16.24 | 16.27 | 0.03 |
| | 10/2/95 | none | 13.55 | 0.00 |
| | 11/26/95 | none | 14.84 | 0.00 |
| | 4/16/96 | none | 13.80 | 0.00 |
| | 7/6/96 | none | 14.55 | 0.00 |
| | 9/30/96 | none | 9.62 | 0.00 |
| | 1/10/97 | none | 12.26 | 0.00 |
| | 4/2/97 | none | 12.03 | 0.00 |
| | 4/18/98 | none | 12.14 | 0.00 |
| | 12/5/98 | none | 15.95 | 0.00 |
| | 4/1/99 | none | 16.04 | 0.00 |
| 6/3/99 | none | 13.6 | 0.00 | |

**TABLE 1 (cont.)
Monitoring Well Fluid Level Data**

| Well No. | Date | Depth to FPH, ft | Depth to Water, ft | FPH Thickness, ft |
|-----------------|-------------|-------------------------|---------------------------|--------------------------|
| MW-7 | 11/17/94 | none | 34.33 | 0.00 |
| | 2/9/95 | none | 34.67 | 0.00 |
| | 6/16/95 | none | 35.61 | 0.00 |
| | 10/2/95 | none | 33.79 | 0.00 |
| | 11/26/95 | none | 33.20 | 0.00 |
| | 4/16/96 | none | 30.95 | 0.00 |
| | 7/6/96 | none | 33.36 | 0.00 |
| | 9/30/96 | none | 29.15 | 0.00 |
| | 1/10/97 | none | 30.72 | 0.00 |
| | 4/2/97 | none | 31.85 | 0.00 |
| | 4/18/98 | None | 31.94 | 0.00 |
| | 12/5/98 | None | 35.24 | 0.00 |
| | 4/1/99 | None | 35.24 | 0.00 |
| | 6/3/99 | None | 33.32 | 0.00 |
| MW-8 | 11/17/94 | 13.69 | 14.95 | 1.26 |
| | 2/9/95 | 14.46 | 15.02 | 0.56 |
| | 6/16/95 | 15.50 | 16.41 | 0.91 |
| | 10/2/95 | 13.03 | 13.45 | 0.42 |
| | 11/26/95 | 14.16 | 14.71 | 0.55 |
| | 4/16/96 | 13.66 | 13.70 | 0.04 |
| | 7/6/96 | 13.05 | 13.07 | 0.02 |
| | 9/30/96 | 8.04 | 8.07 | 0.03 |
| | 1/10/97 | 9.89 | 9.90 | 0.01 |
| | 4/2/97 | 10.58 | 10.60 | 0.02 |
| | 7/10/97 | none | 12.59 | 0.00 |
| | 10/17/97 | none | 10.20 | 0.00 |
| | 1/18/98 | none | 10.08 | 0.00 |
| | 4/18/98 | none | 10.52 | 0.00 |
| | 5/29/99 | none | 11.55 | 0.00 |
| | 6/30/98 | none | 11.87 | 0.00 |
| | 7/23/98 | none | 13.65 | 0.00 |
| | 8/19/98 | none | 14.42 | 0.00 |
| | 12/5/98 | none | 15.30 | 0.00 |
| 4/1/99 | none | 15.73 | 0.00 | |
| 6/3/99 | none | 11.88 | 0.00 | |

**TABLE 1 (cont.)
Monitoring Well Fluid Level Data**

| Well No. | Date | Depth to FPH, ft | Depth to Water, ft | FPH Thickness, ft |
|-----------------|-------------|-------------------------|---------------------------|--------------------------|
| MW-9 | 11/17/94 | 23.07 | 23.10 | 0.03 |
| | 2/9/95 | trace | 23.41 | trace |
| | 6/16/95 | trace | 24.65 | trace |
| | 10/2/95 | skim | 20.73 | skim |
| | 11/26/95 | skim | 19.52 | skim |
| | 4/16/96 | 17.53 | 17.54 | 0.01 |
| | 7/6/96 | 21.20 | 21.23 | 0.03 |
| | 9/30/96 | 16.00 | 16.02 | 0.02 |
| | 1/10/97 | 17.55 | 17.57 | 0.02 |
| | 4/2/97 | 18.91 | 18.92 | 0.01 |
| | 7/10/97 | 20.39 | 20.41 | 0.02 |
| | 10/17/97 | 20.13 | 20.15 | 0.02 |
| | 1/18/98 | 18.39 | 18.40 | 0.01 |
| | 4/18/98 | 18.80 | 18.81 | 0.01 |
| | 5/29/98 | none | 19.50 | 0.00 |
| | 6/30/98 | none | 19.82 | 0.00 |
| | 7/23/98 | 21.00 | 21.01 | 0.01 |
| | 8/19/98 | none | 21.75 | 0.00 |
| | 12/5/98 | none | 23.18 | 0.00 |
| 4/1/99 | none | 22.85 | 0.00 | |
| 6/3/99 | none | 20.85 | 0.00 | |
| MW-10 | 11/17/94 | 19.02 | 21.24 | 2.22 |
| | 2/9/95 | 19.74 | 22.36 | 2.62 |
| | 6/16/95 | 20.97 | 23.30 | 2.33 |
| | 10/2/95 | 18.49 | 19.55 | 1.06 |
| | 11/26/95 | 20.13 | 22.03 | 1.90 |
| | 4/16/96 | 20.26 | 20.88 | 0.62 |
| | 7/6/96 | 19.86 | 20.03 | 0.17 |
| | 9/30/96 | none | 15.62 | 0.00 |
| | 1/10/97 | 19.00 | 19.05 | 0.05 |
| | 4/2/97 | 19.35 | 19.40 | 0.05 |
| | 7/10/97 | 20.37 | 20.42 | 0.05 |
| | 10/17/97 | none | 16.58 | 0.00 |
| | 1/18/98 | none | 17.82 | 0.00 |
| | 4/18/98 | none | 18.27 | 0.00 |
| | 5/29/99 | none | 18.72 | 0.00 |
| | 6/30/98 | none | 19.04 | 0.00 |
| | 7/23/98 | none | 19.26 | 0.00 |
| | 8/19/98 | none | 19.40 | 0.00 |
| | 12/5/98 | none | 19.69 | 0.00 |
| 4/1/99 | none | 19.62 | 0.00 | |
| 6/3/99 | none | 17.10 | 0.00 | |

TABLE 1 (cont.)
Monitoring Well Fluid Level Data

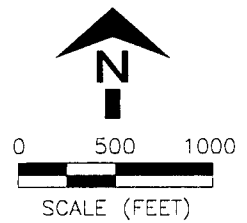
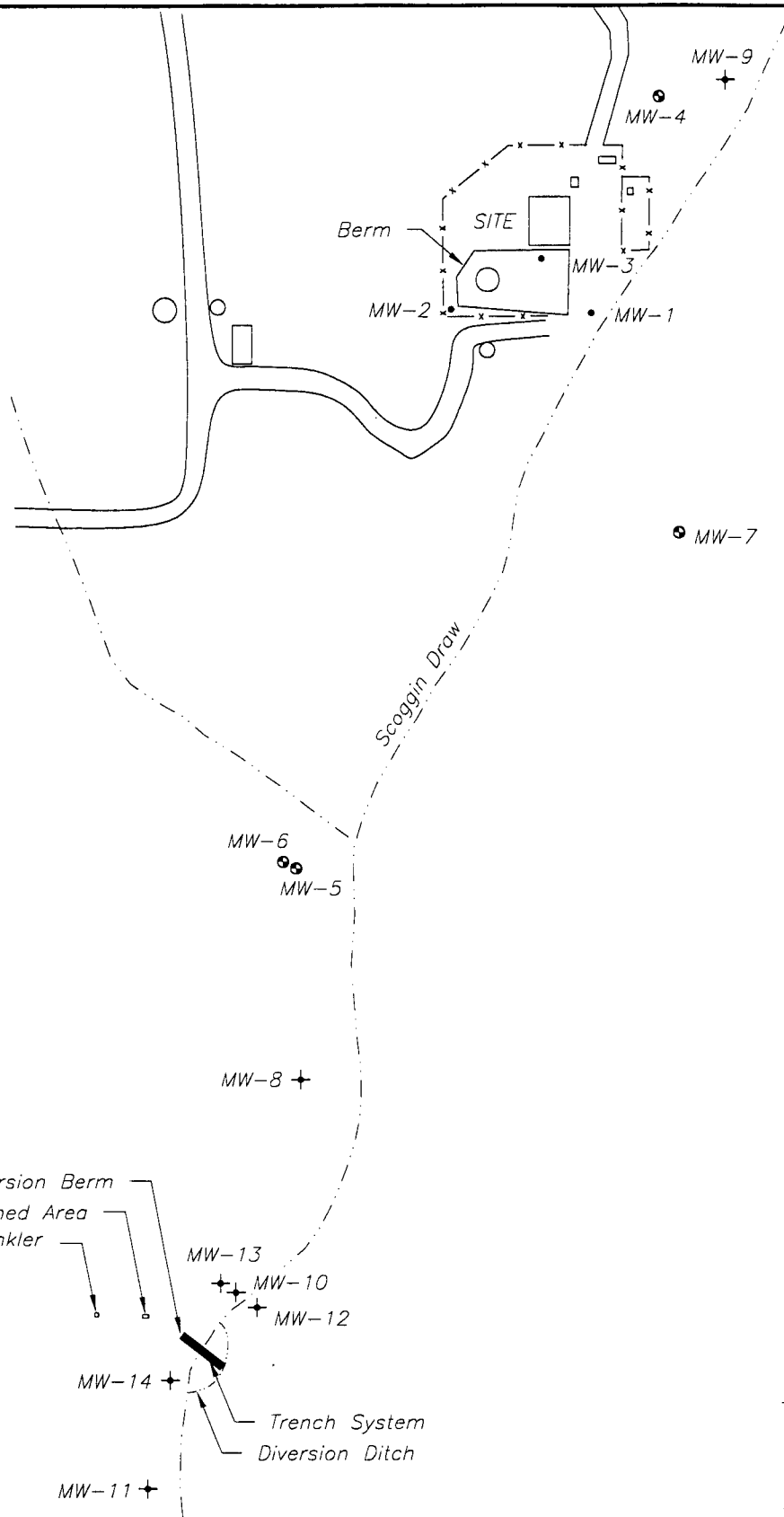
| Well No. | Date | Depth to FPH, ft | Depth to Water, ft | FPH Thickness, ft |
|----------|----------|------------------|--------------------|-------------------|
| MW-11 | 11/17/94 | none | 19.34 | 0.00 |
| | 2/9/95 | none | 19.61 | 0.00 |
| | 6/16/95 | none | 20.08 | 0.00 |
| | 10/2/95 | none | 19.74 | 0.00 |
| | 11/26/95 | none | 19.94 | 0.00 |
| | 4/16/96 | none | 19.68 | 0.00 |
| | 7/6/96 | none | 19.75 | 0.00 |
| | 9/30/96 | none | 18.65 | 0.00 |
| | 1/10/97 | none | 19.92 | 0.00 |
| | 4/2/97 | none | 14.50 | 0.00 |
| | 1/18/98 | none | 18.91 | 0.00 |
| | 4/18/98 | none | 19.07 | 0.00 |
| | 6/30/98 | none | 19.39 | 0.00 |
| | 8/19/98 | none | 19.54 | 0.00 |
| | 12/5/98 | none | 19.47 | 0.00 |
| | 4/1/99 | none | 19.44 | 0.00 |
| 6/2/99 | none | 19.58 | 0.00 | |
| MW-12 | 11/17/94 | none | 16.47 | 0.00 |
| | 2/9/95 | none | 16.78 | 0.00 |
| | 6/16/95 | none | 17.28 | 0.00 |
| | 10/2/95 | none | 16.03 | 0.00 |
| | 11/26/95 | none | 16.63 | 0.00 |
| | 4/16/96 | none | 16.55 | 0.00 |
| | 7/6/96 | none | 16.45 | 0.00 |
| | 9/30/96 | none | 13.81 | 0.00 |
| | 1/10/97 | none | 18.92 | 0.00 |
| | 4/2/97 | none | 15.20 | 0.00 |
| | 4/18/98 | none | 14.91 | 0.00 |
| | 12/5/98 | none | 16.63 | 0.00 |
| | 4/1/99 | none | 16.87 | 0.00 |
| 6/3/99 | none | 15.55 | 0.00 | |

**TABLE 1 (cont.)
Monitoring Well Fluid Level Data**

| Well No. | Date | Depth to FPH, ft | Depth to Water, ft | FPH Thickness, ft |
|-----------------|-------------|-------------------------|---------------------------|--------------------------|
| MW-13 | 11/17/94 | 20.41 | 20.49 | 0.08 |
| | 2/9/95 | 20.84 | 20.87 | 0.03 |
| | 6/16/95 | 21.35 | 21.40 | 0.05 |
| | 10/2/95 | 19.35 | 19.44 | 0.09 |
| | 11/26/95 | 21.53 | 21.58 | 0.05 |
| | 4/16/96 | 21.82 | 21.90 | 0.08 |
| | 7/6/96 | 21.00 | 21.05 | 0.05 |
| | 9/30/96 | 16.40 | 16.42 | 0.02 |
| | 1/10/97 | 19.17 | 19.19 | 0.02 |
| | 4/2/97 | 18.50 | 18.52 | 0.02 |
| | 7/10/97 | none | 19.00 | 0.00 |
| | 10/17/97 | none | 18.03 | 0.00 |
| | 1/18/98 | none | 19.11 | 0.00 |
| | 4/18/98 | none | 19.60 | 0.00 |
| | 5/29/98 | none | 19.96 | 0.00 |
| | 6/30/98 | none | 20.28 | 0.00 |
| | 7/23/98 | none | 20.91 | 0.00 |
| | 8/19/98 | none | 21.25 | 0.00 |
| | 12/5/98 | none | 21.6 | 0.00 |
| | 4/1/99 | none | 21.81 | 0.00 |
| 6/3/99 | none | 18.52 | 0.00 | |
| MW-14 | 11/17/94 | none | 18.11 | 0.00 |
| | 2/9/95 | none | 18.45 | 0.00 |
| | 6/16/95 | none | 18.93 | 0.00 |
| | 10/2/95 | none | 18.63 | 0.00 |
| | 11/26/95 | none | 18.83 | 0.00 |
| | 4/16/96 | none | 18.55 | 0.00 |
| | 7/6/96 | none | 18.58 | 0.00 |
| | 9/30/96 | none | 17.63 | 0.00 |
| | 1/10/97 | none | 17.42 | 0.00 |
| | 4/2/97 | none | 17.82 | 0.00 |
| | 1/18/98 | none | 17.61 | 0.00 |
| | 4/18/98 | none | 17.77 | 0.00 |
| | 6/30/98 | none | 18.10 | 0.00 |
| | 8/19/98 | none | 18.23 | 0.00 |
| | 12/5/98 | none | 18.15 | 0.00 |
| 4/1/99 | none | 18.27 | 0.00 | |
| 6/2/99 | none | 18.25 | 0.00 | |



FIGURES



LEGEND

- Monitoring Well (1993)
- ◉ Phase II Monitoring Well
- + Phase III Monitoring Well

AMOCO PIPELINE COMPANY
Artesia, New Mexico

SITE LAYOUT


BASCOR Environmental, Inc.
consulting engineers and scientists



| | | | | | | | |
|-------|-----------|---------|--------|----------|--------|------|--------|
| DRAWN | S.WHITNEY | CHECKED | S.SENN | APPROVED | R.SENN | DATE | 7-6-99 |
|-------|-----------|---------|--------|----------|--------|------|--------|

FILENAME:
D:\DWGS\AP98223\BASEMAP.DWG

REFERENCE FILES:
NONE

FIGURE 1

Depth to Water in MW-1

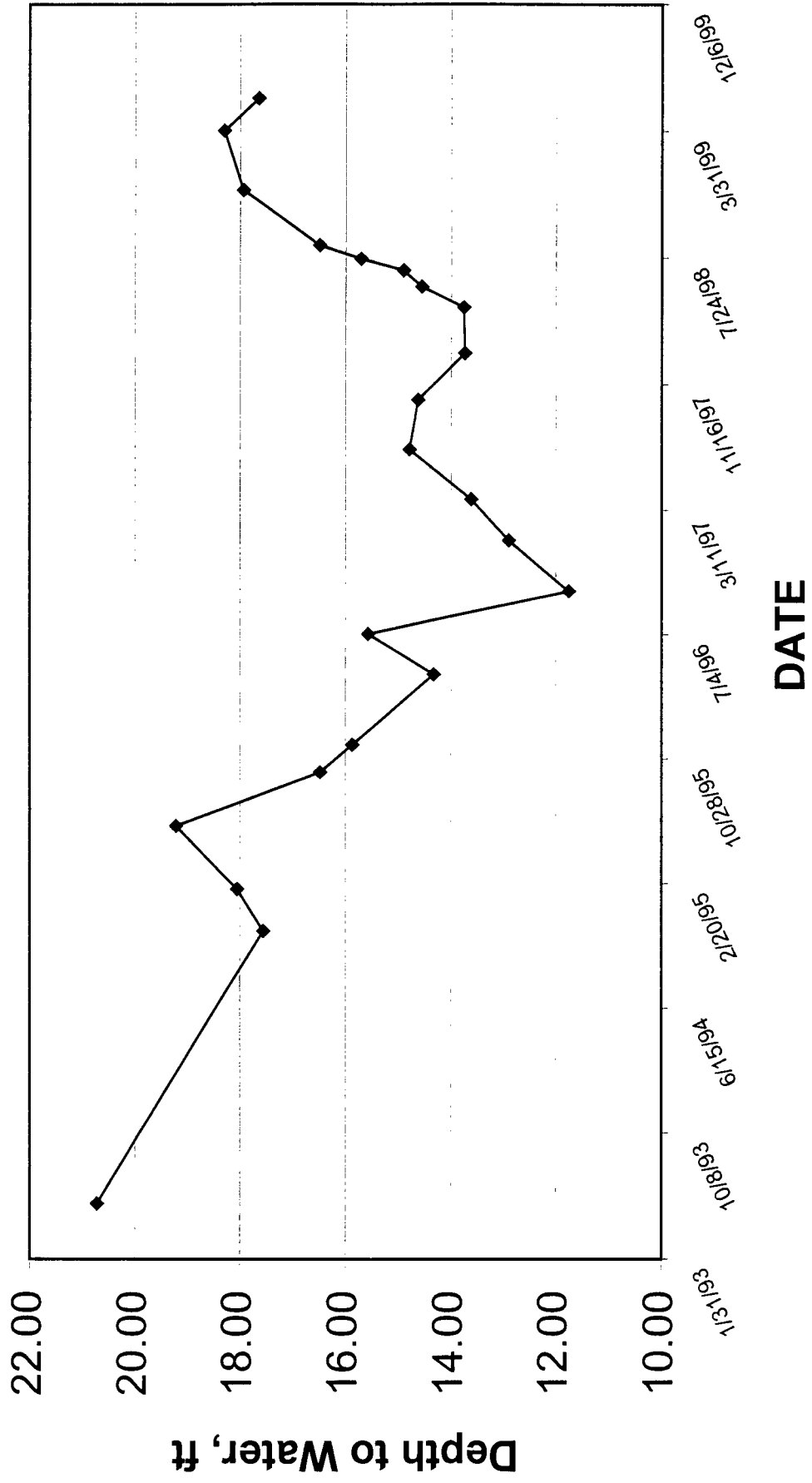


FIGURE 2

Depth to Water in MW-2

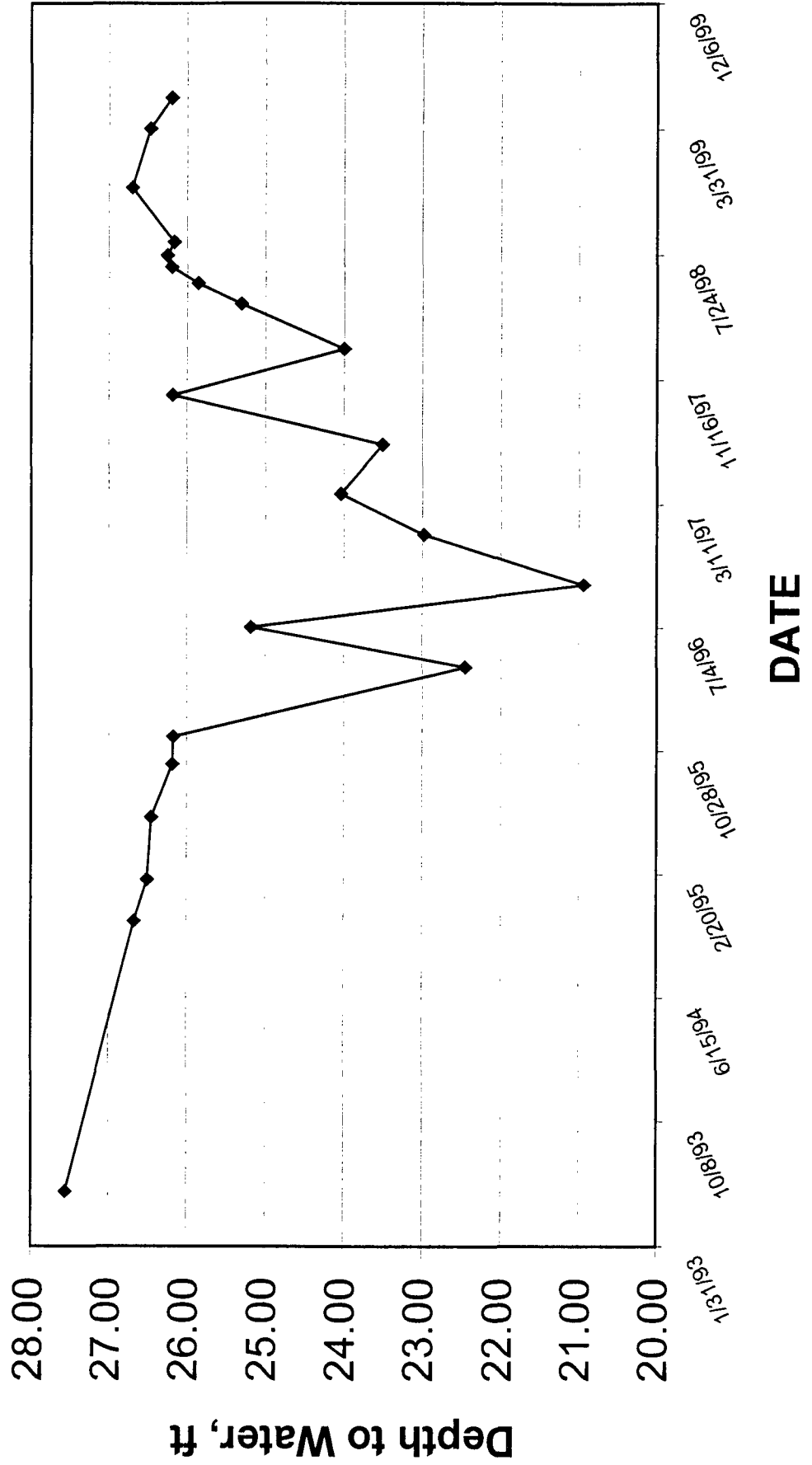


FIGURE 3

Depth to Water in MW-3

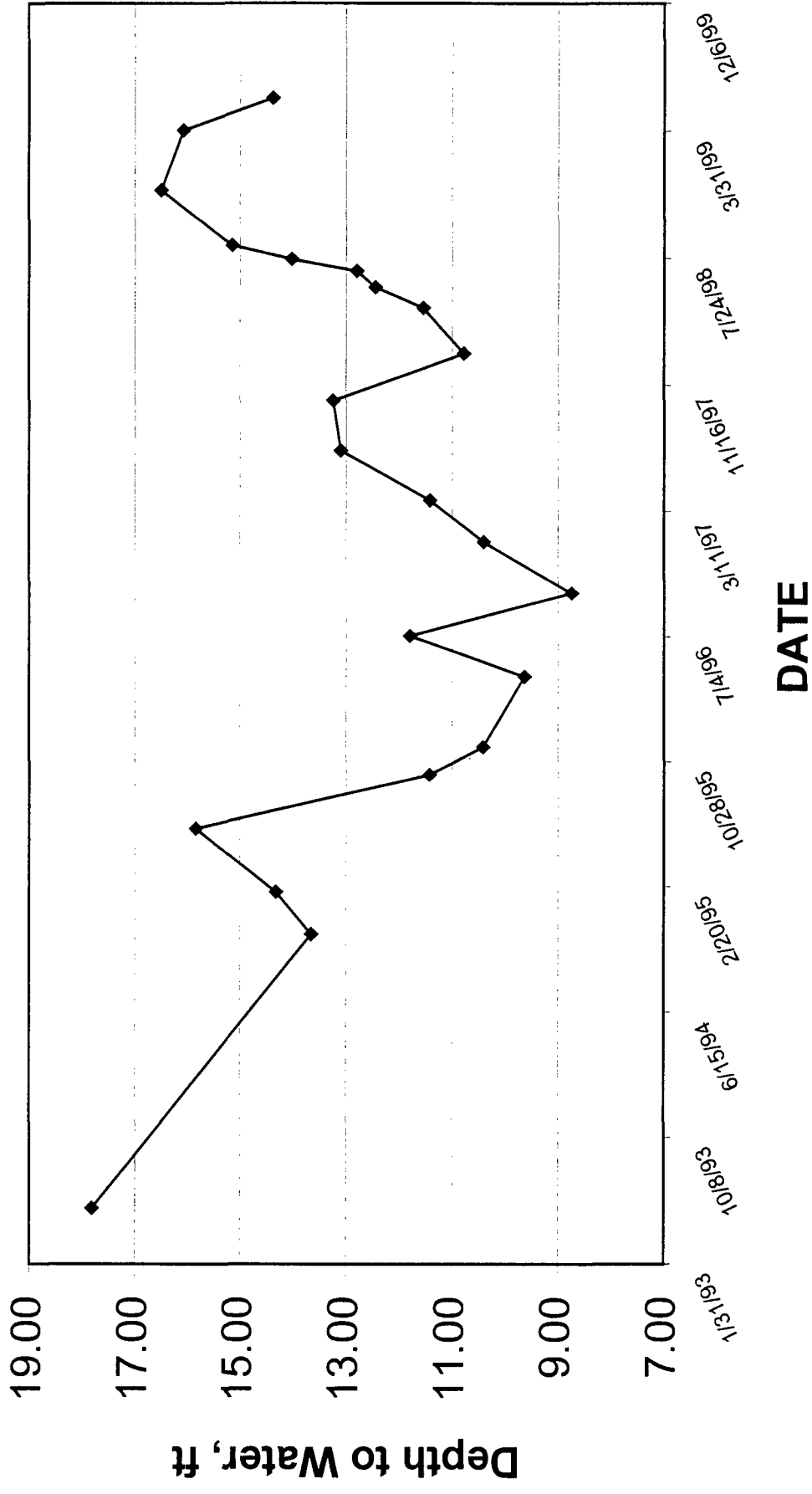


FIGURE 4

Depth to Water in MW-4

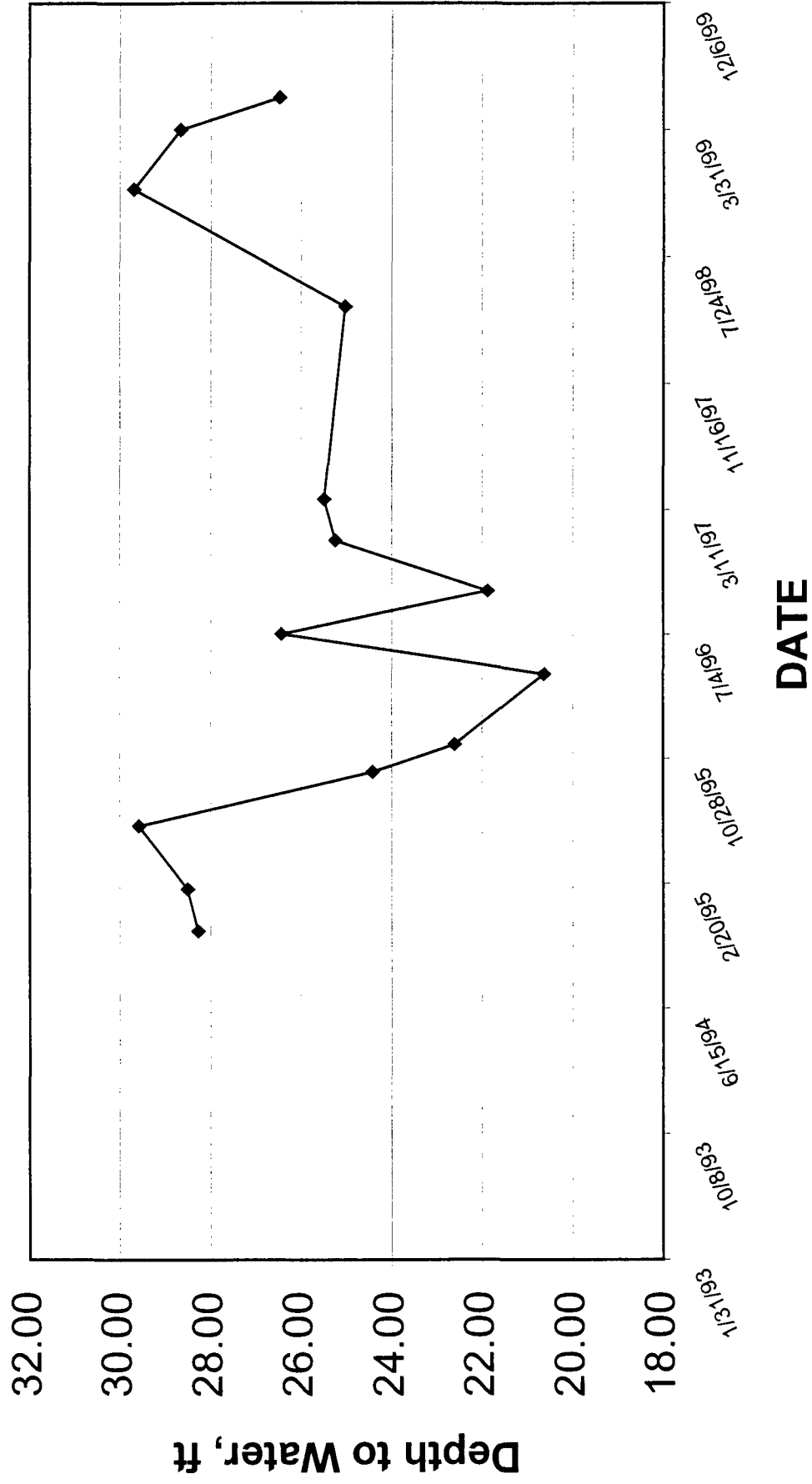


FIGURE 5

Depth to Water in MW-5

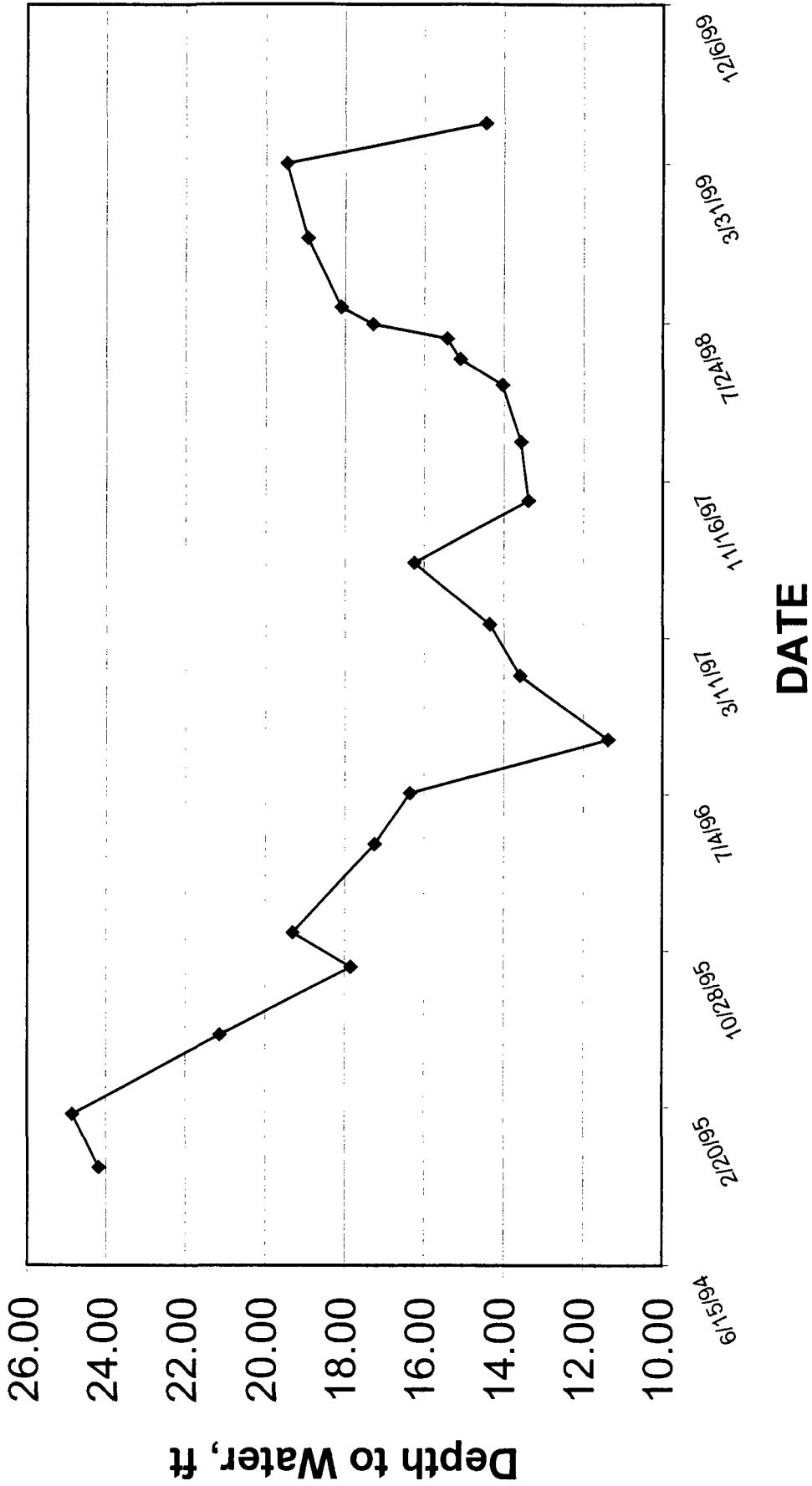


FIGURE 6

Depth to Water in MW-6

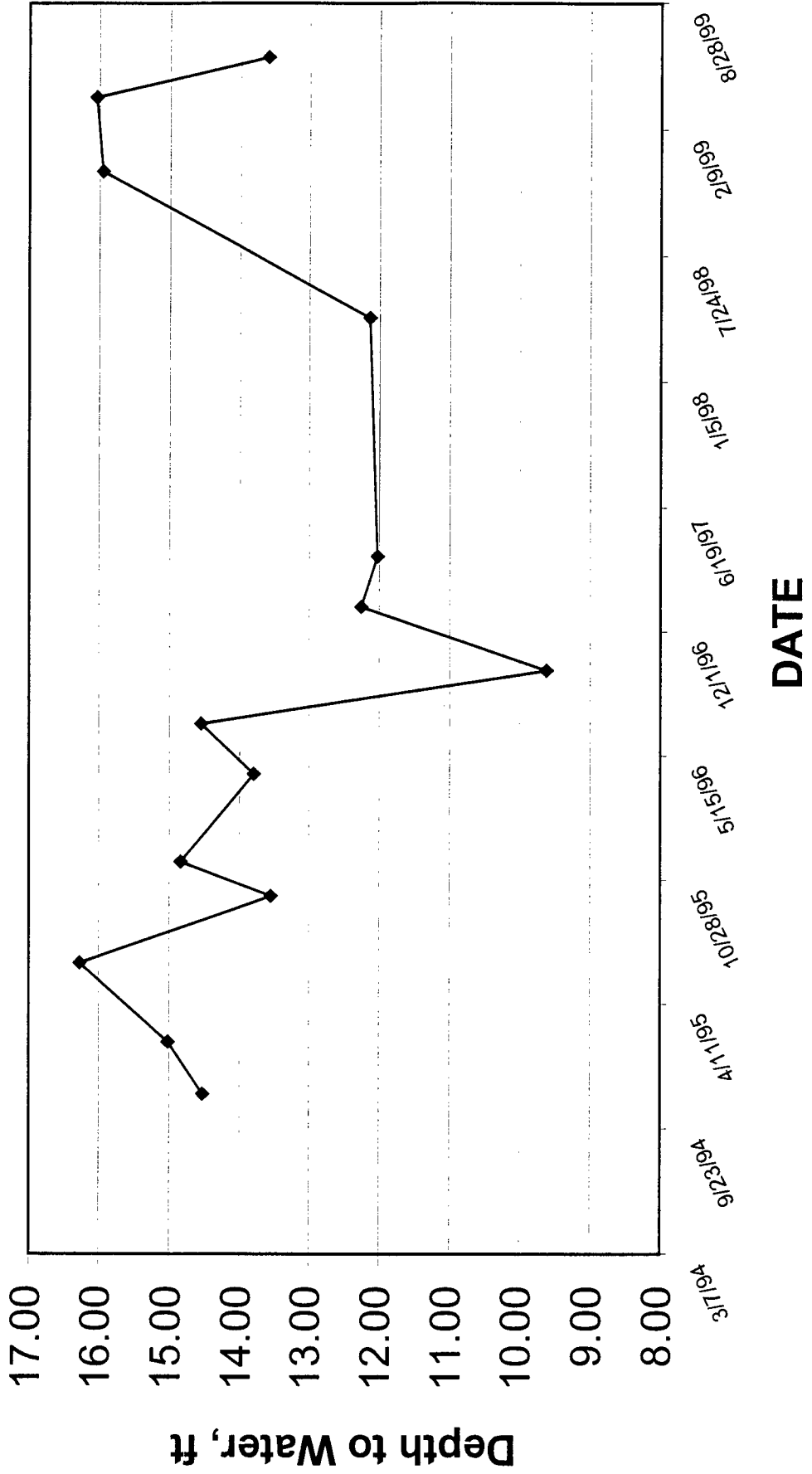


FIGURE 7

Depth to Water in MW-7

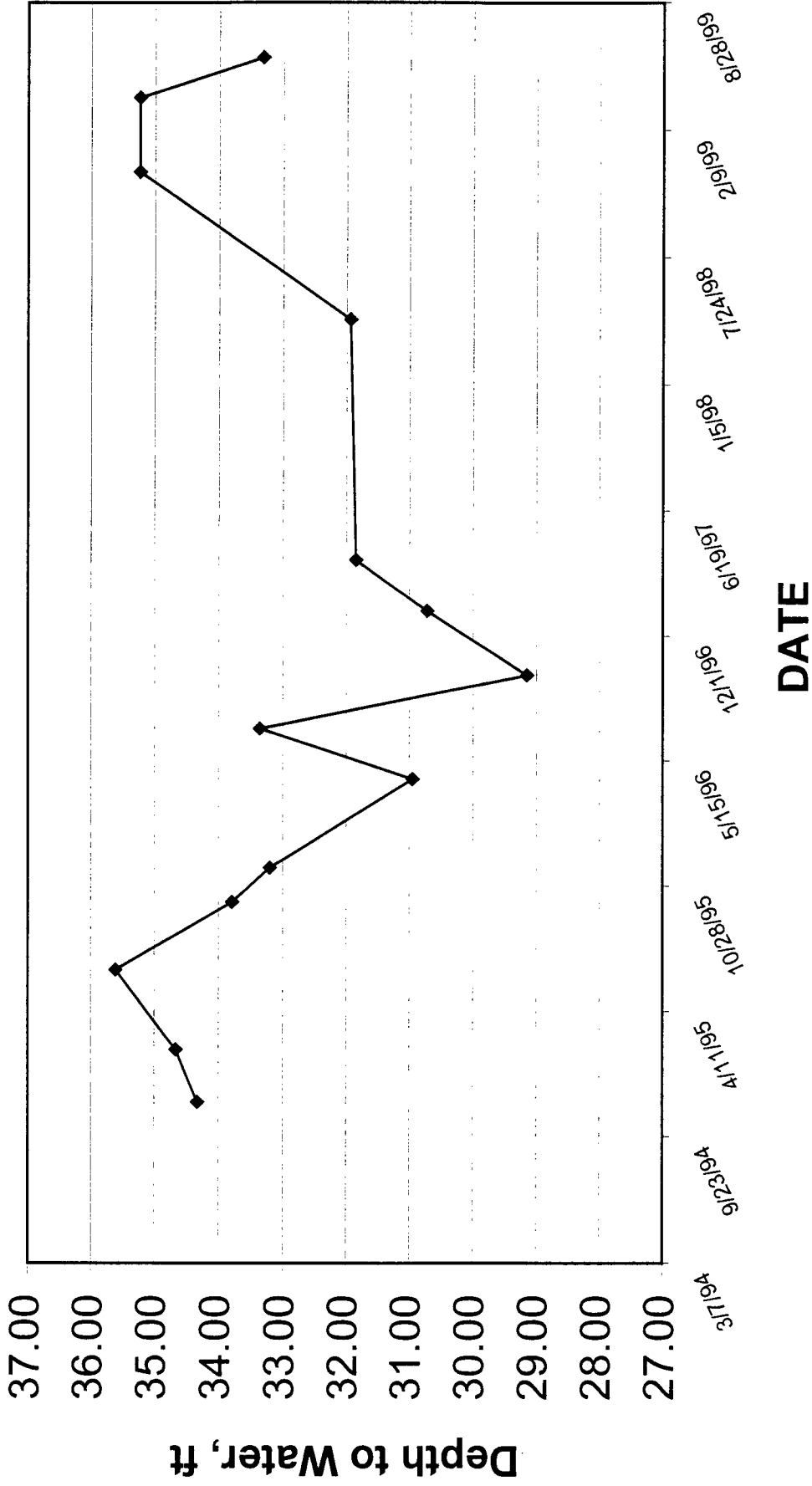


FIGURE 8

Depth to Water in MW-8

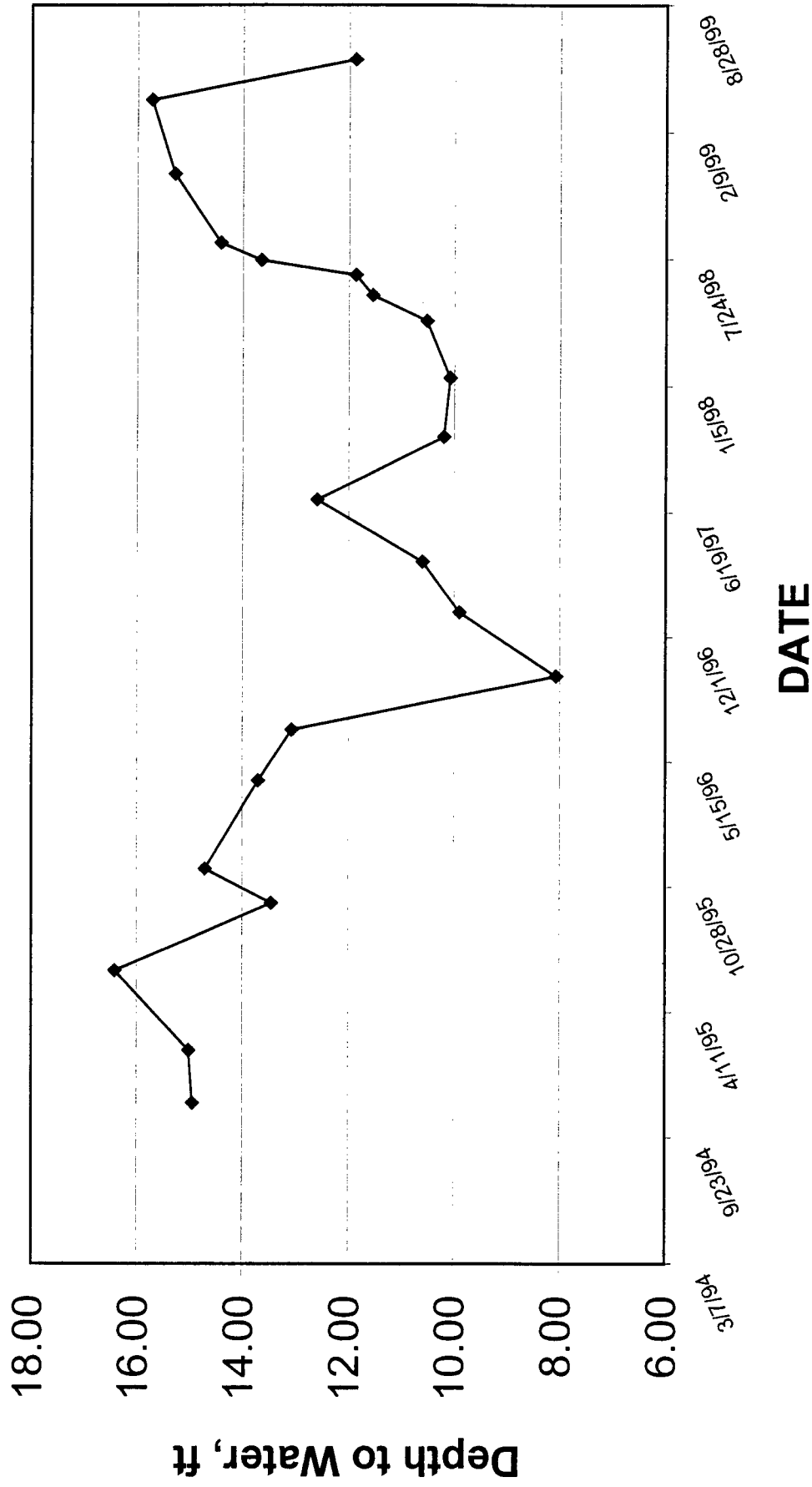


FIGURE 9

Depth to Water in MW-9

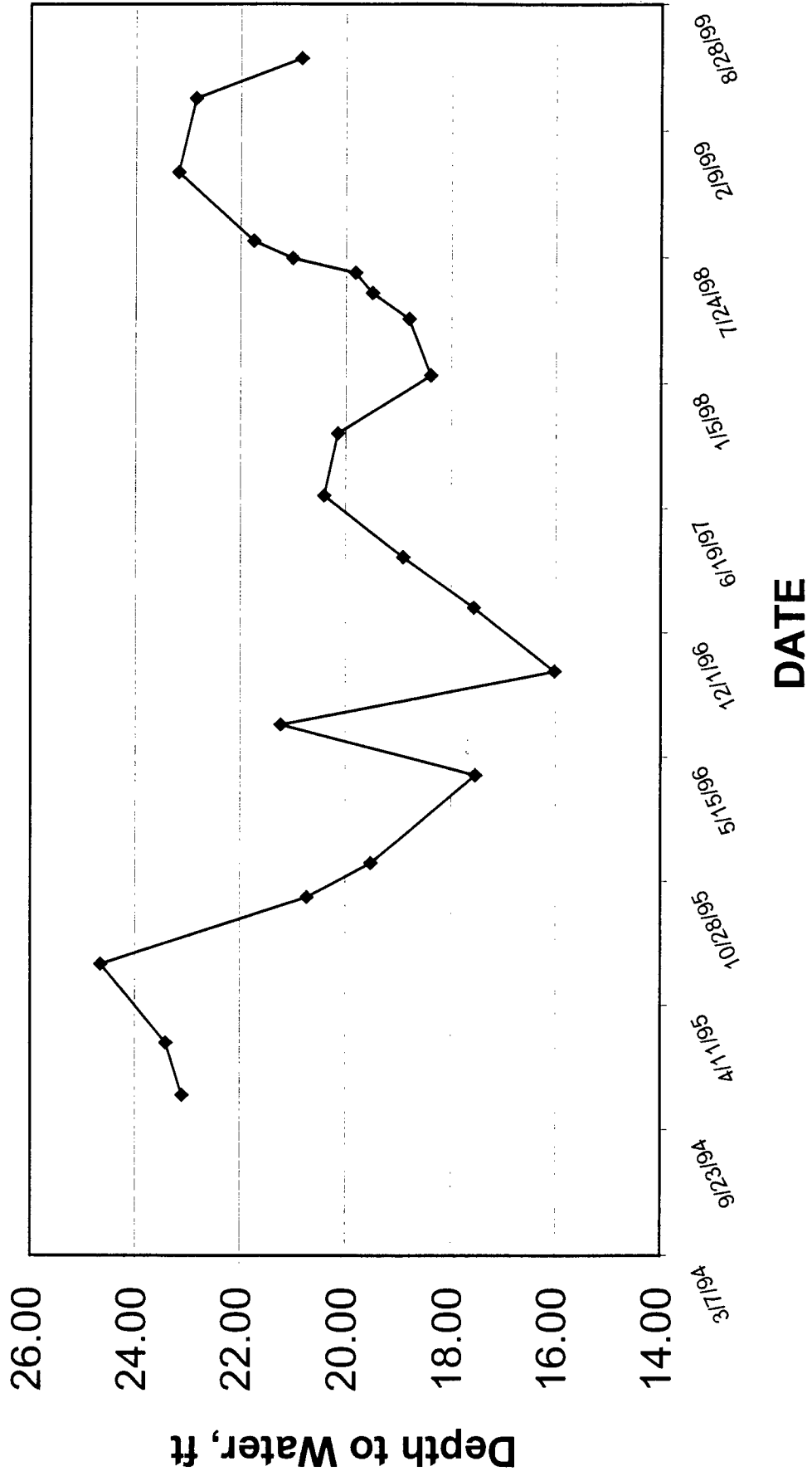


FIGURE 10

Depth to Water in MW-10

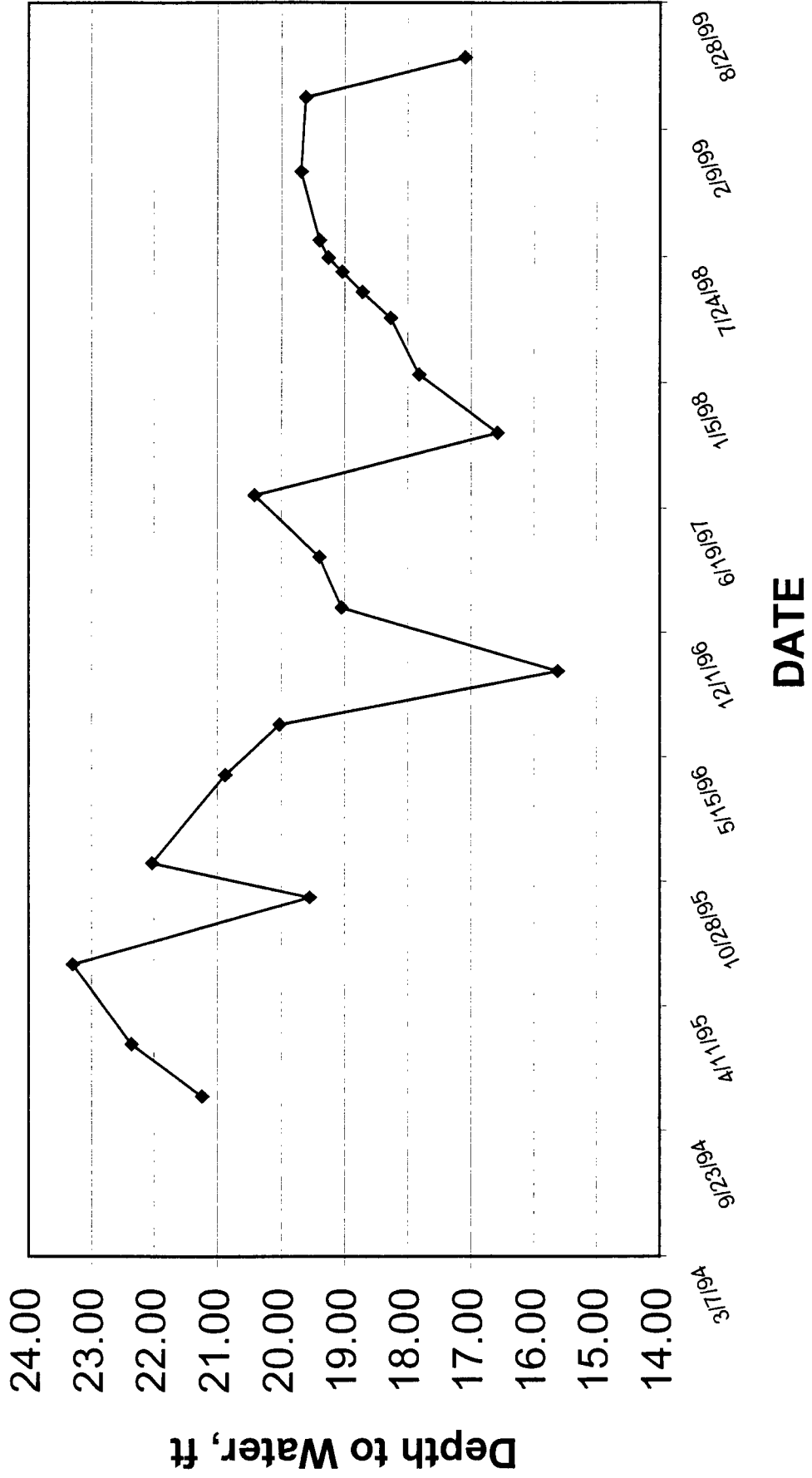


FIGURE 11

Depth to Water in MW-11

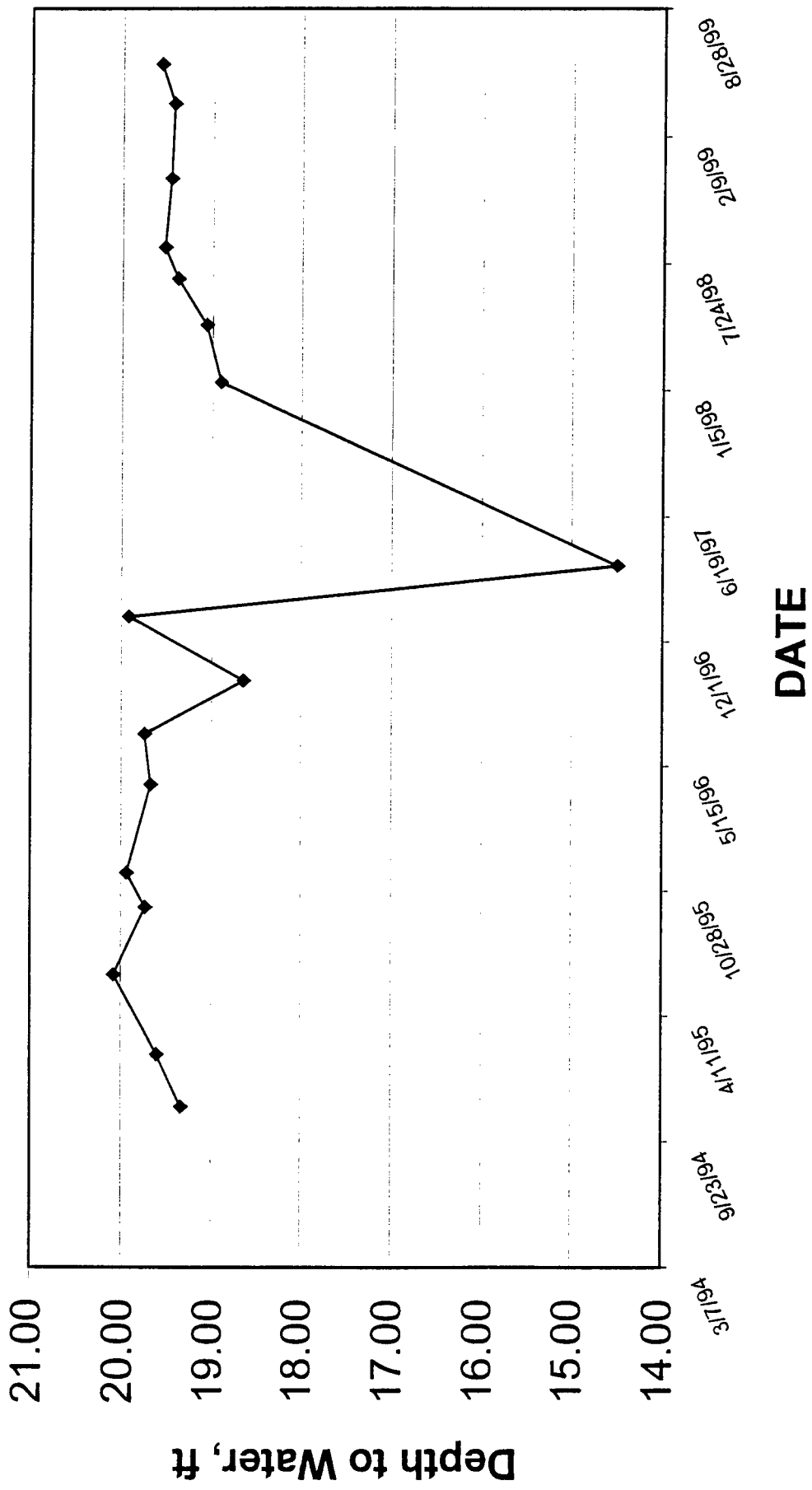


FIGURE 12

Depth to Water in MW-12

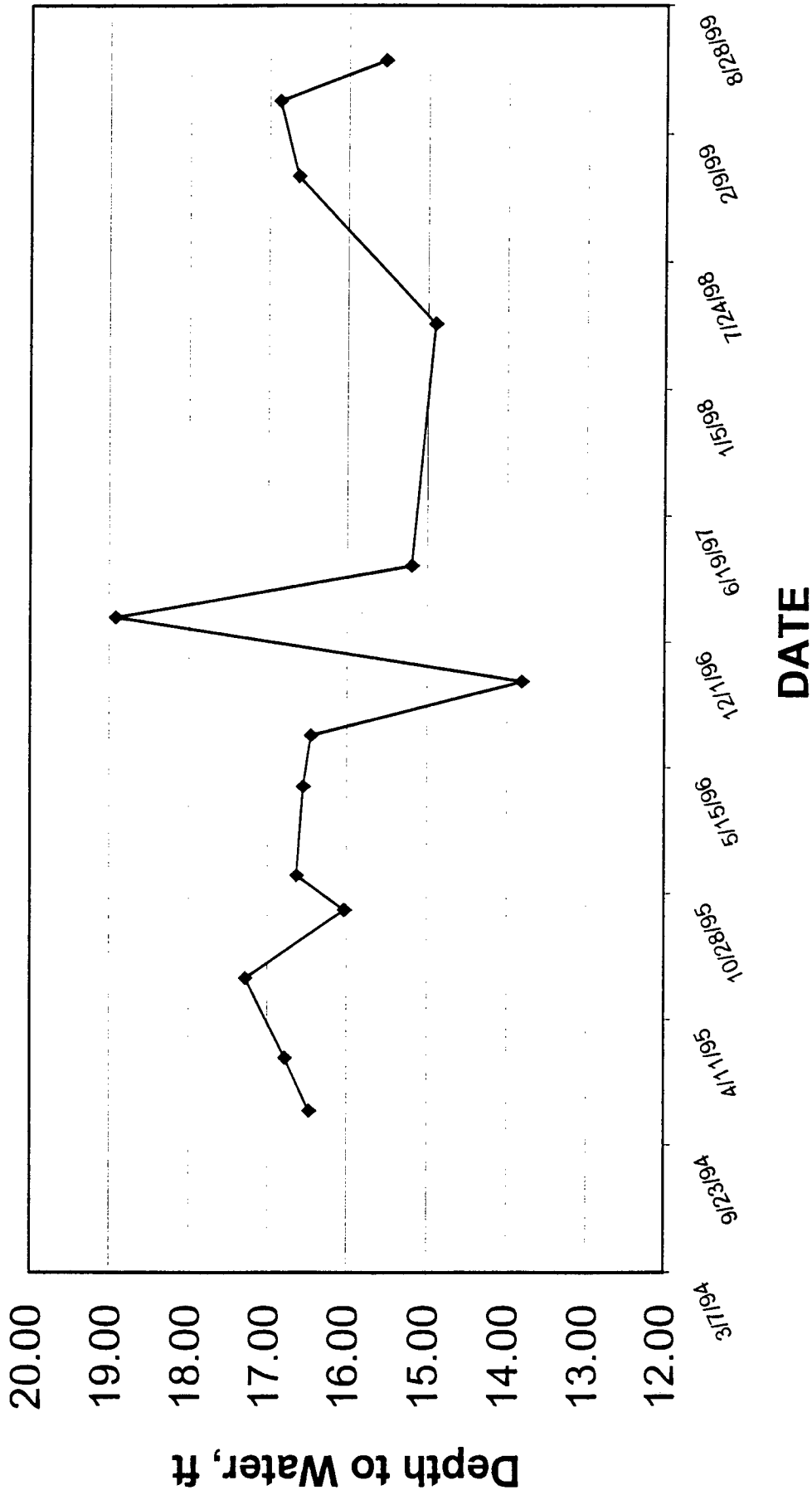


FIGURE 13

Depth to Water in MW-13

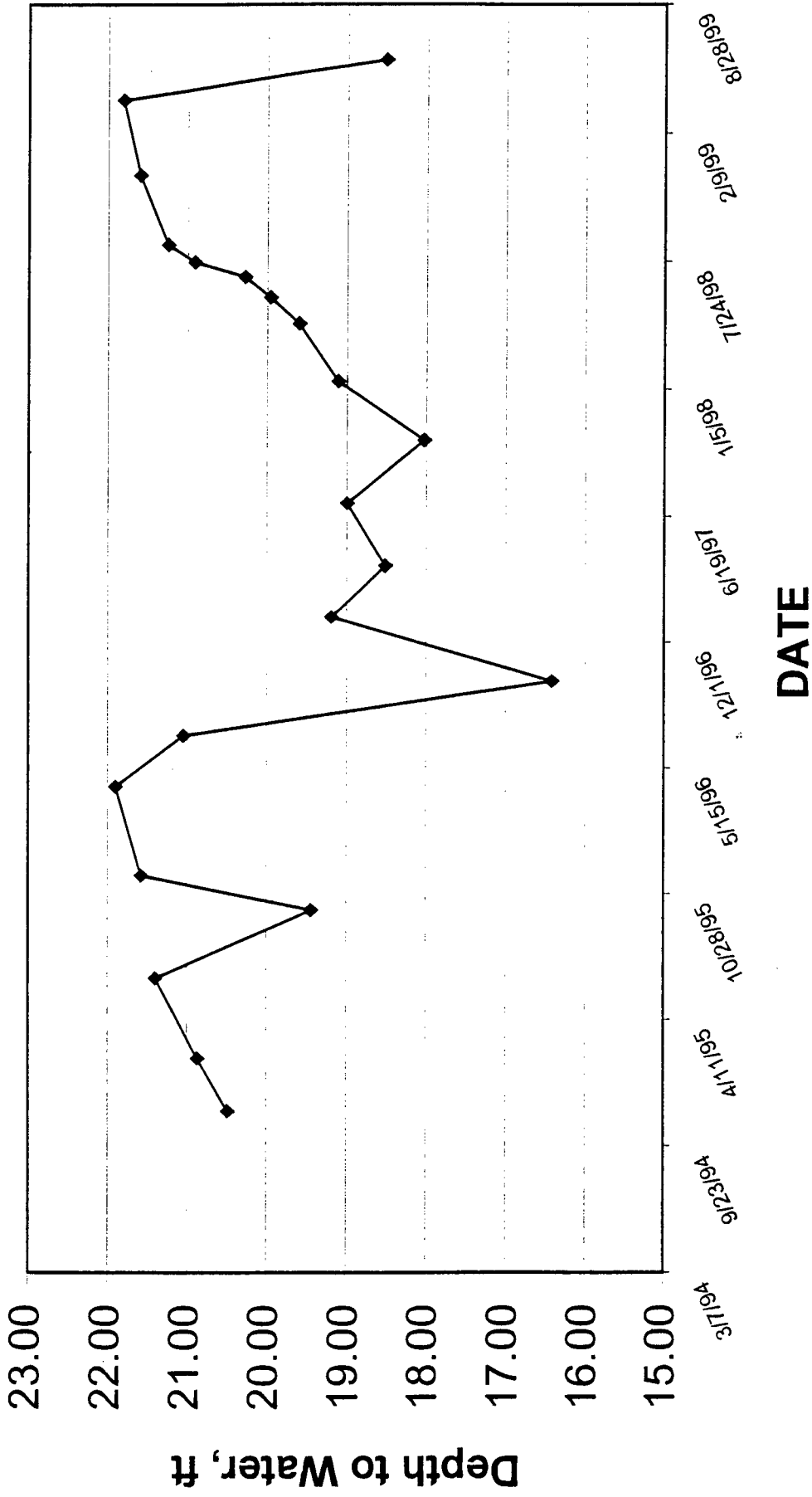


FIGURE 14

Depth to Water in MW-14

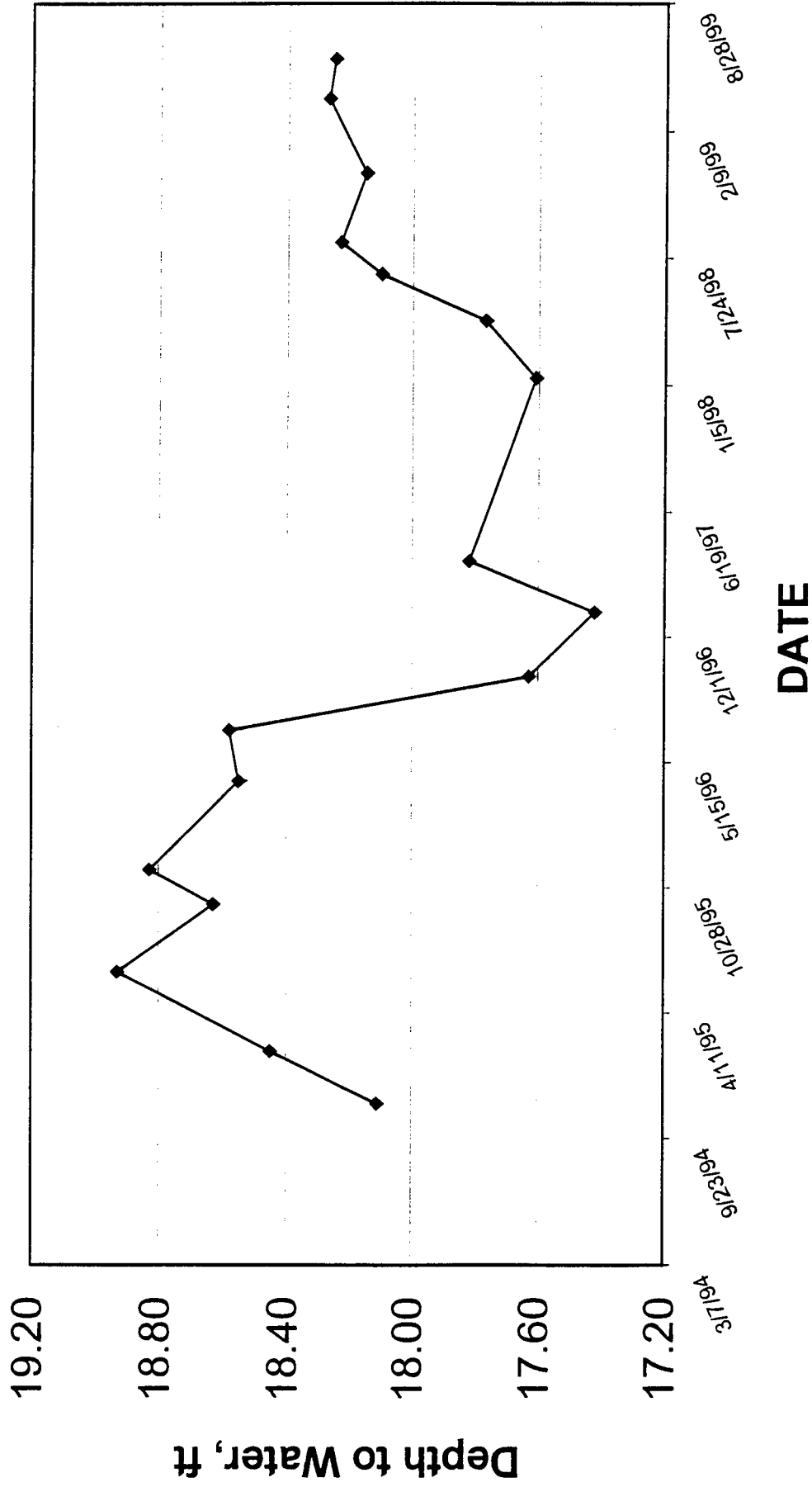
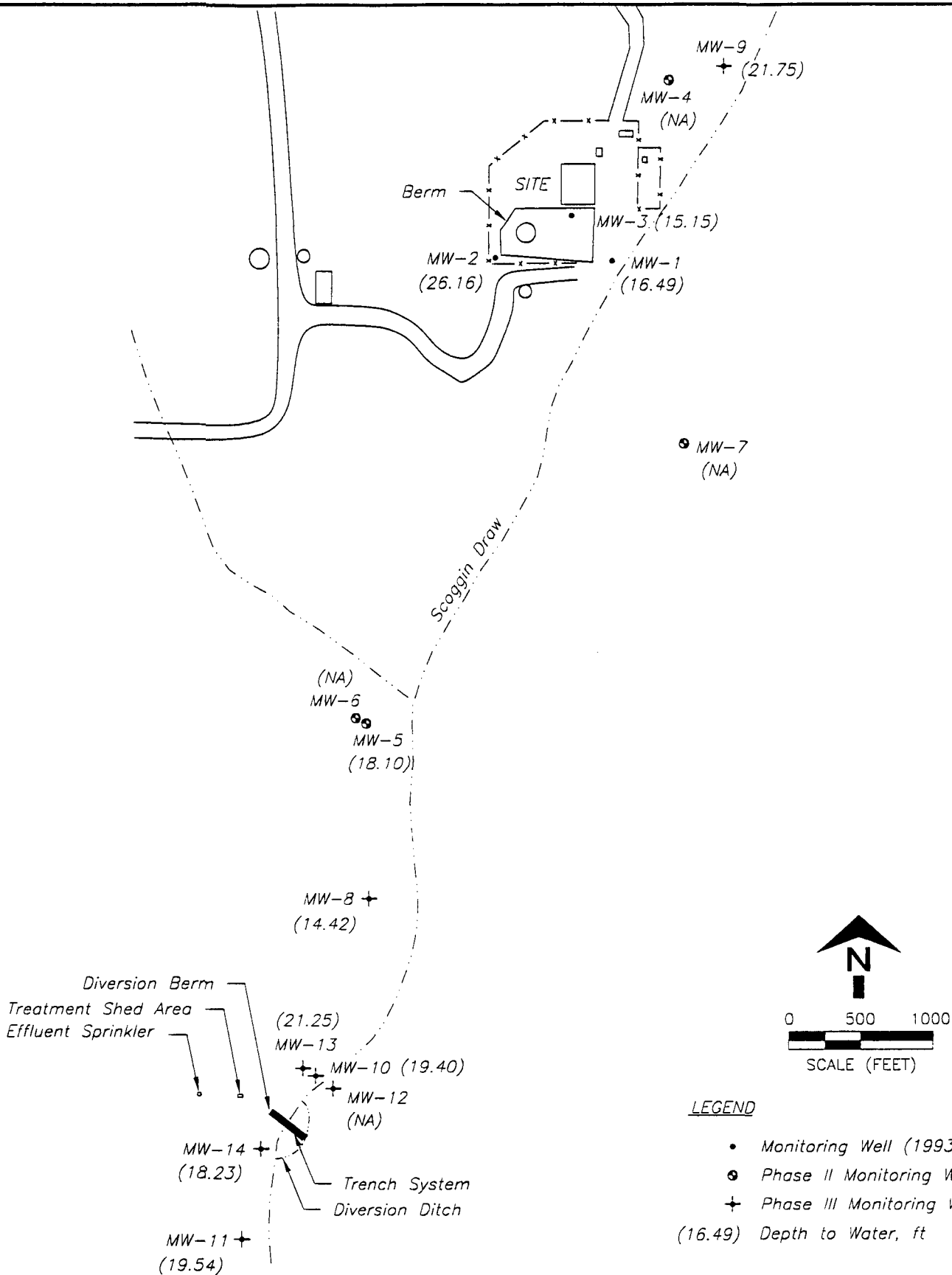


FIGURE 15



LEGEND

- Monitoring Well (1993)
 - ◉ Phase II Monitoring Well
 - + Phase III Monitoring Well
- (16.49) Depth to Water, ft



AMOCO PIPELINE COMPANY
Artesia, New Mexico

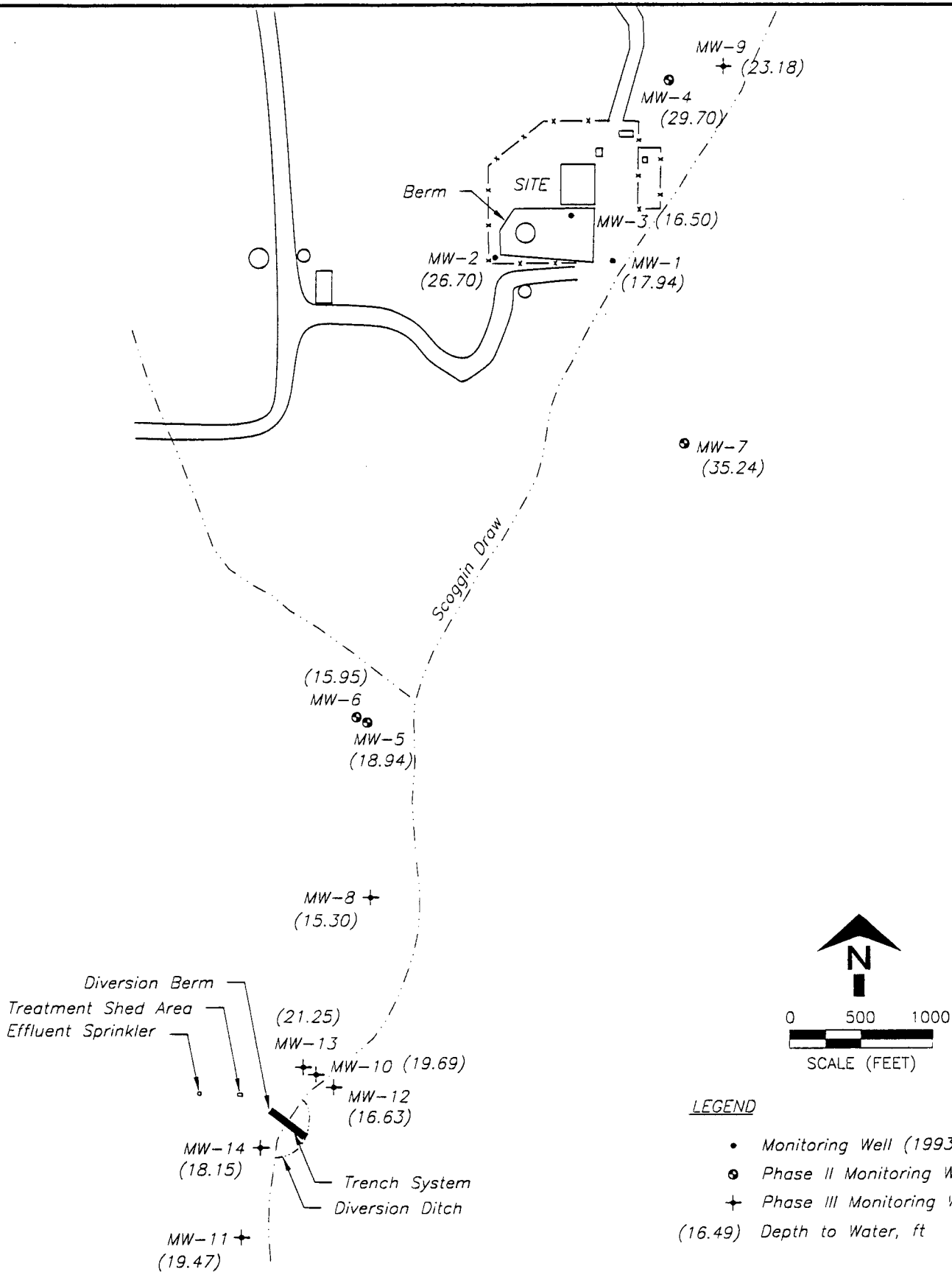
MEASURED DEPTH TO WATER DATA, 8/19/98

DRAWN S.WHITNEY CHECKED S.SENN APPROVED R.SENN DATE 7-9-99

FILENAME: D:\DWGS\AP98223\DEPTH TO WATER.DWG

REFERENCE FILES: NONE

FIGURE 16



LEGEND

- Monitoring Well (1993)
- Phase II Monitoring Well
- + Phase III Monitoring Well

(16.49) Depth to Water, ft

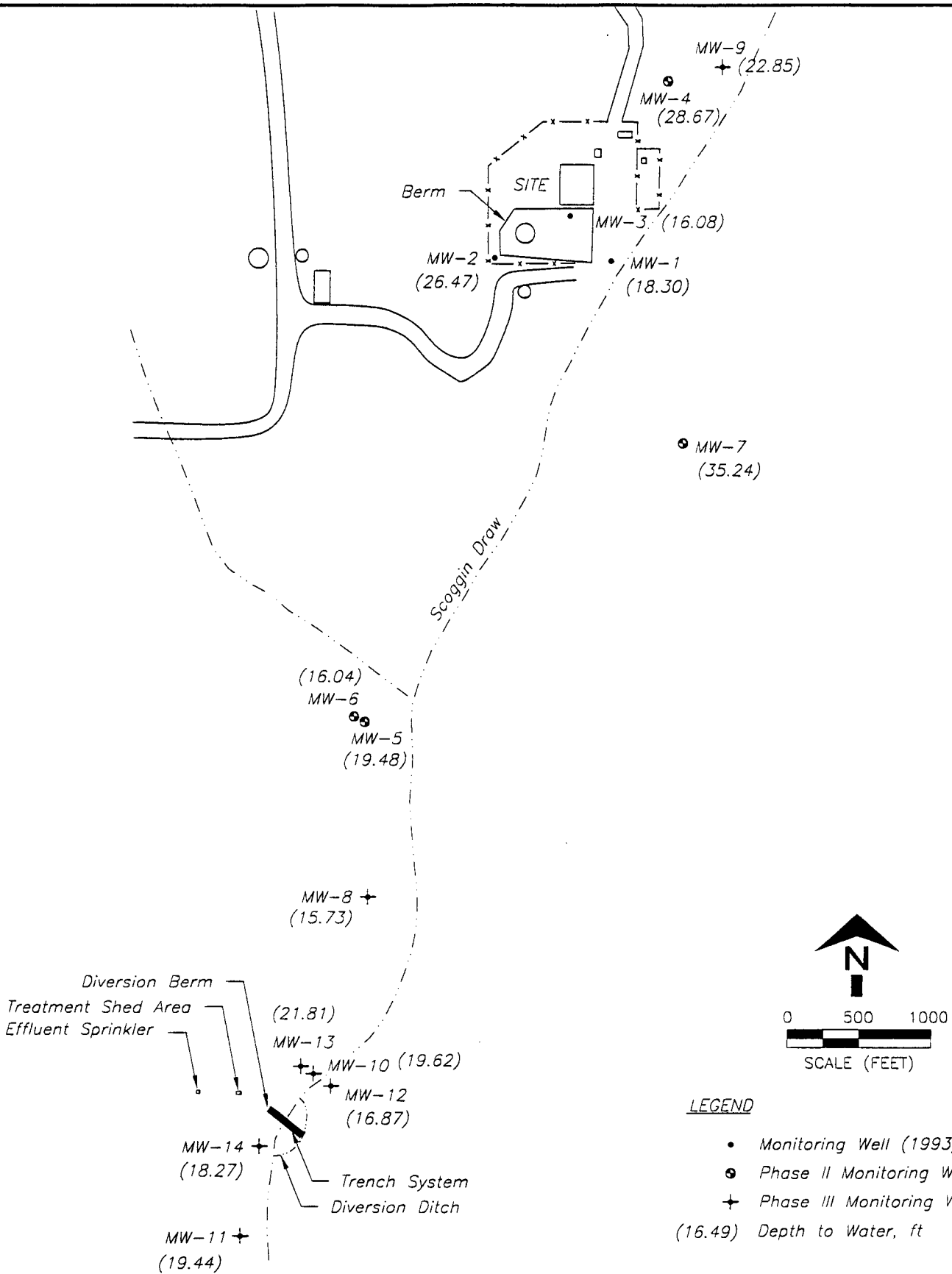


AMOCO PIPELINE COMPANY
Artesia, New Mexico

MEASURED DEPTH TO WATER DATA, 12/5/98

DRAWN S. WHITNEY CHECKED S. SENN APPROVED R. SENN DATE 7-9-99

FILENAME: D:\DWGS\AP98223\DEPTH TO WATER.DWG REFERENCE FILES: NONE **FIGURE 17**



LEGEND

- Monitoring Well (1993)
- Phase II Monitoring Well
- + Phase III Monitoring Well

(16.49) Depth to Water, ft


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 consulting engineers and scientists

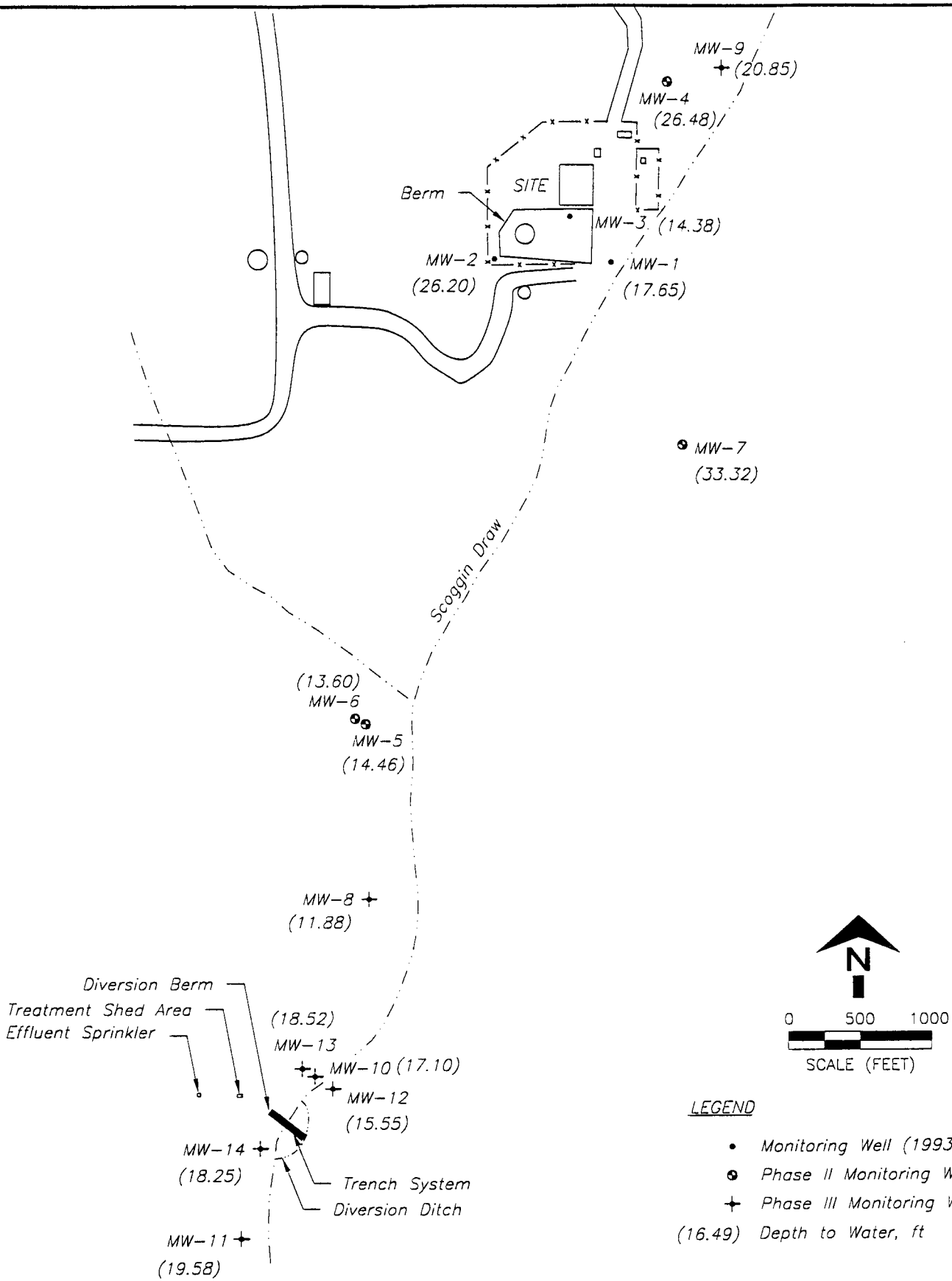


AMOCO PIPELINE COMPANY
 Artesia, New Mexico

MEASURED DEPTH TO WATER DATA, 4/1/98

DRAWN S.WHITNEY CHECKED S.SENN APPROVED R.SENN DATE 7-9-99

FILENAME: D:\DWGS\AP98223\DEPTH TO WATER.DWG REFERENCE FILES: NONE **FIGURE 18**



LEGEND

- Monitoring Well (1993)
- Phase II Monitoring Well
- + Phase III Monitoring Well
- (16.49) Depth to Water, ft

BASCOR Environmental, Inc.
consulting engineers and scientists

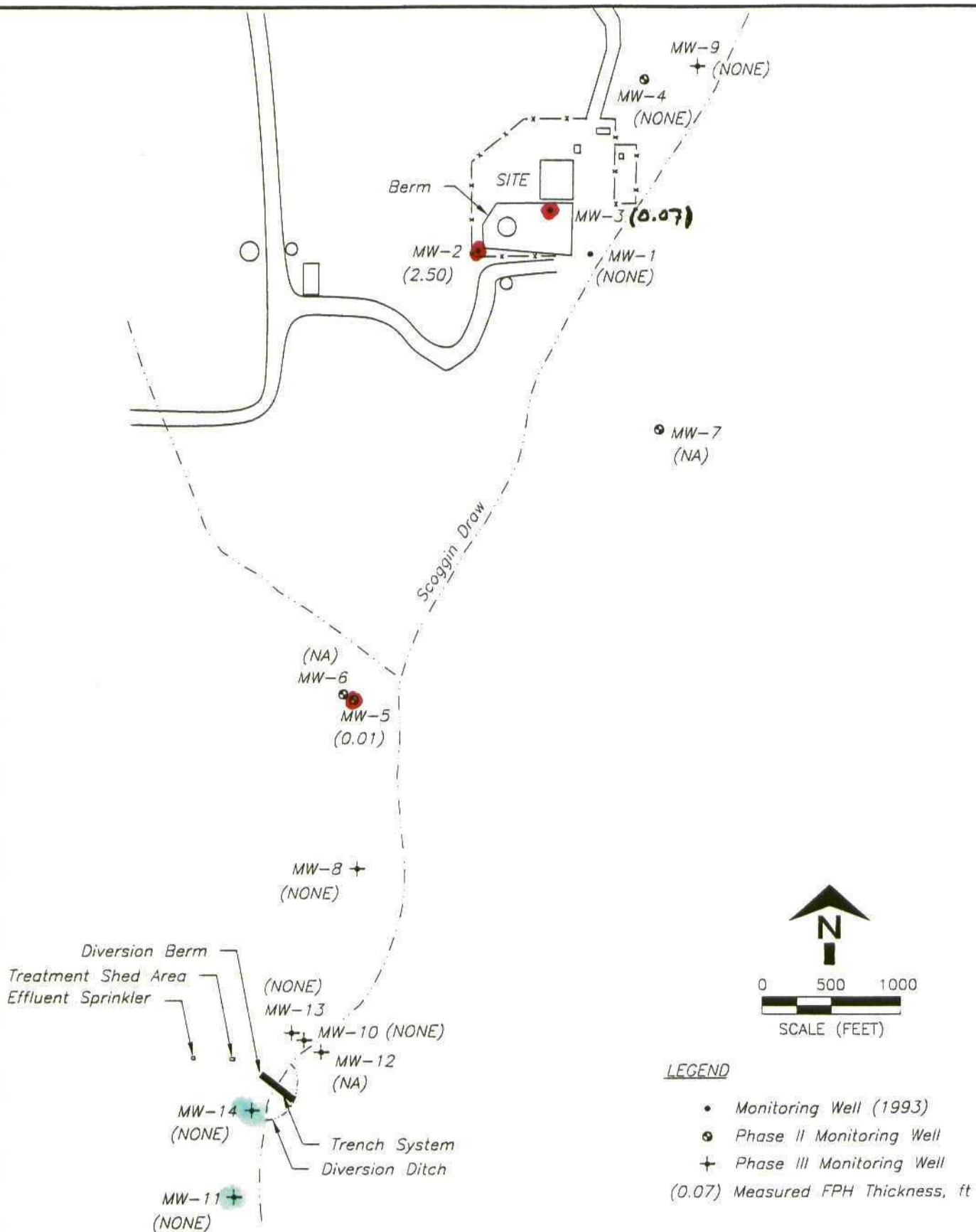


AMOCO PIPELINE COMPANY
Artesia, New Mexico

MEASURED DEPTH TO WATER DATA, 6/3/98

DRAWN S. WHITNEY CHECKED S. SENN APPROVED R. SENN DATE 7-9-99

FILENAME: D:\DWGS\AP98223\DEPTH TO WATER.DWG REFERENCE FILES: NONE **FIGURE 19**




BASCOR Environmental, Inc.
 consulting engineers and scientists

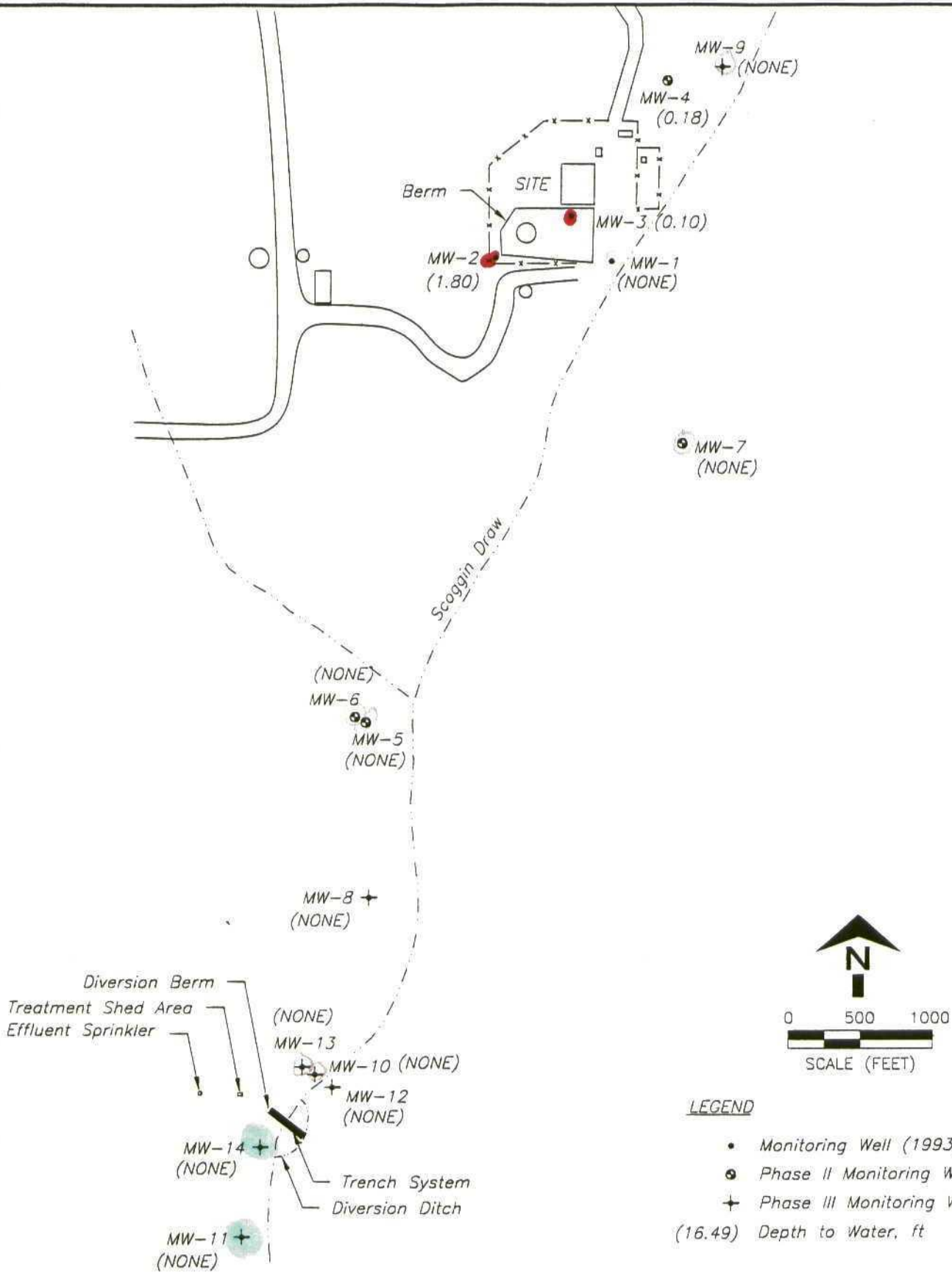


AMOCO PIPELINE COMPANY
 Artesia, New Mexico

MEASURED FPH THICKNESS DATA, 8/19/98

| | | | | | | | |
|-----------|------------------------------------|---------|--------|------------------|--------|------|--------|
| DRAWN | S.WHITNEY | CHECKED | S.SENN | APPROVED | R.SENN | DATE | 7-9-99 |
| FILENAME: | D:\DWGS\AP98223\DEPTH TO WATER.DWG | | | REFERENCE FILES: | NONE | | |

FIGURE 20



LEGEND

- Monitoring Well (1993)
- Phase II Monitoring Well
- + Phase III Monitoring Well

(16.49) Depth to Water, ft

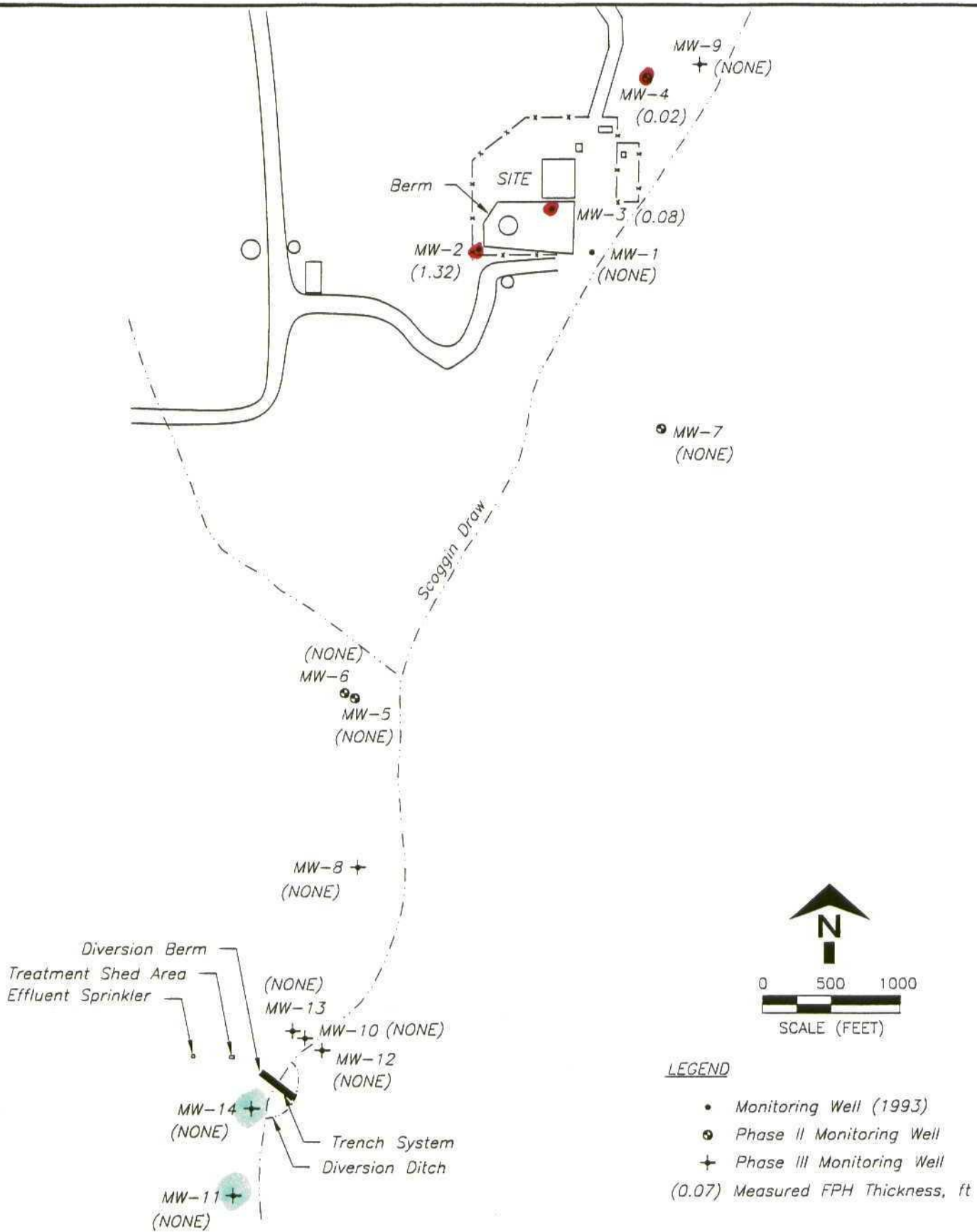


AMOCO PIPELINE COMPANY
Artesia, New Mexico

MEASURED FPH THICKNESS DATA, 12/5/98

DRAWN S.WHITNEY CHECKED S.SENN APPROVED R.SENN DATE 7-9-99

FILENAME: D:\DWGS\AP98223\DEPTH TO WATER.DWG REFERENCE FILES: NONE **FIGURE 21**



AMOCO PIPELINE COMPANY
Artesia, New Mexico

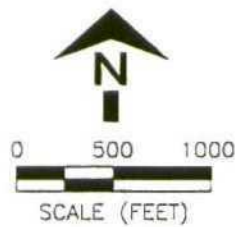
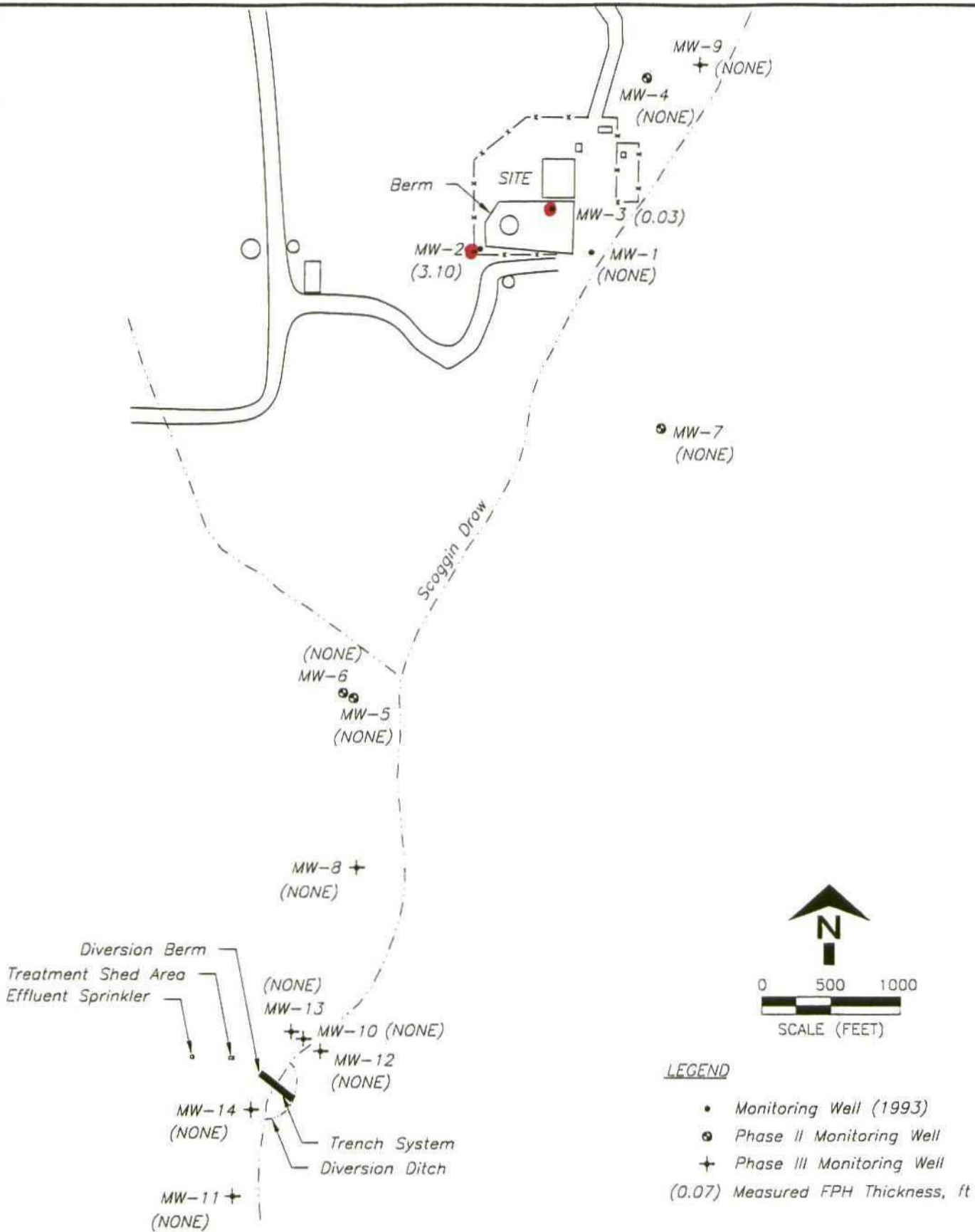
MEASURED FPH THICKNESS DATA, 4/1/99

| | | | | | | | |
|-------|------------|---------|---------|----------|---------|------|--------|
| DRAWN | S. WHITNEY | CHECKED | S. SENN | APPROVED | R. SENN | DATE | 7-9-99 |
|-------|------------|---------|---------|----------|---------|------|--------|

FILENAME: D:\DWGS\AP98223\DEPTH TO WATER.DWG

REFERENCE FILES: NONE

FIGURE 22



LEGEND

- Monitoring Well (1993)
- ⊙ Phase II Monitoring Well
- + Phase III Monitoring Well
- (0.07) Measured FPH Thickness, ft



AMOCO PIPELINE COMPANY
Artesia, New Mexico

MEASURED FPH THICKNESS DATA, 6/3/99

DRAWN S.WHITNEY CHECKED S.SENN APPROVED R.SENN DATE 7-9-99

FILENAME: D:\DWGS\AP98223\DEPTH TO WATER.DWG

REFERENCE FILES: NONE

FIGURE 23

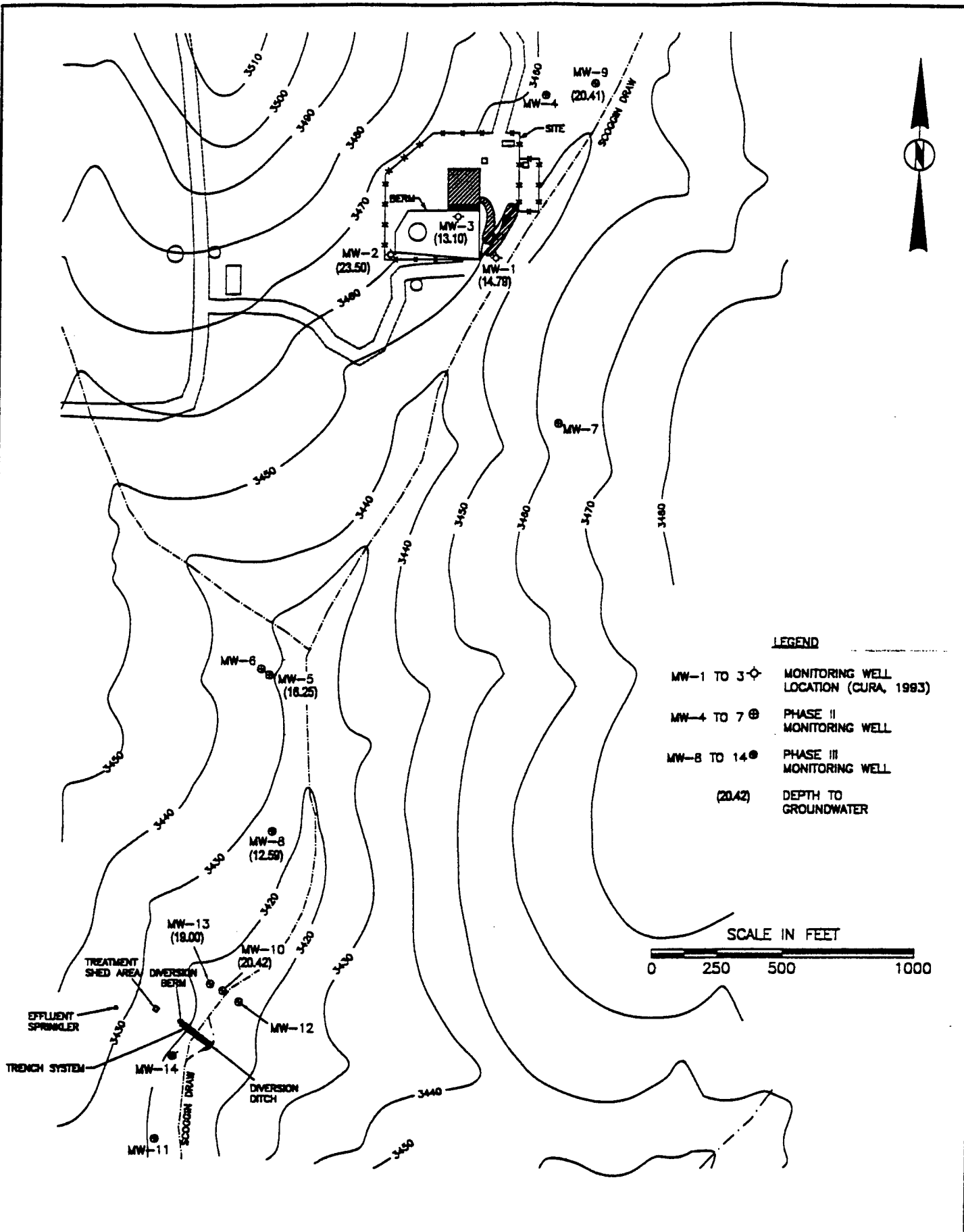


APPENDICES

A decorative border consisting of multiple parallel lines forming a rectangular frame with a stepped top edge, enclosing the text.

APPENDIX A

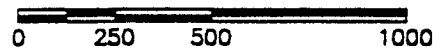
**Historic Data Collected
by Clayton
Environmental
Consultants**



LEGEND

- MW-1 TO 3 ◊ MONITORING WELL LOCATION (CURA, 1993)
- MW-4 TO 7 ⊕ PHASE II MONITORING WELL
- MW-8 TO 14 ⊙ PHASE III MONITORING WELL
- (20.42) DEPTH TO GROUNDWATER

SCALE IN FEET



| | |
|----------|----------|
| CHECK BY | HMM |
| DRAWN BY | BCP |
| DATE | 6-26-98 |
| SCALE | AS SHOWN |
| CAD NO. | 6466101A |
| PRJ NO. | 64661.01 |

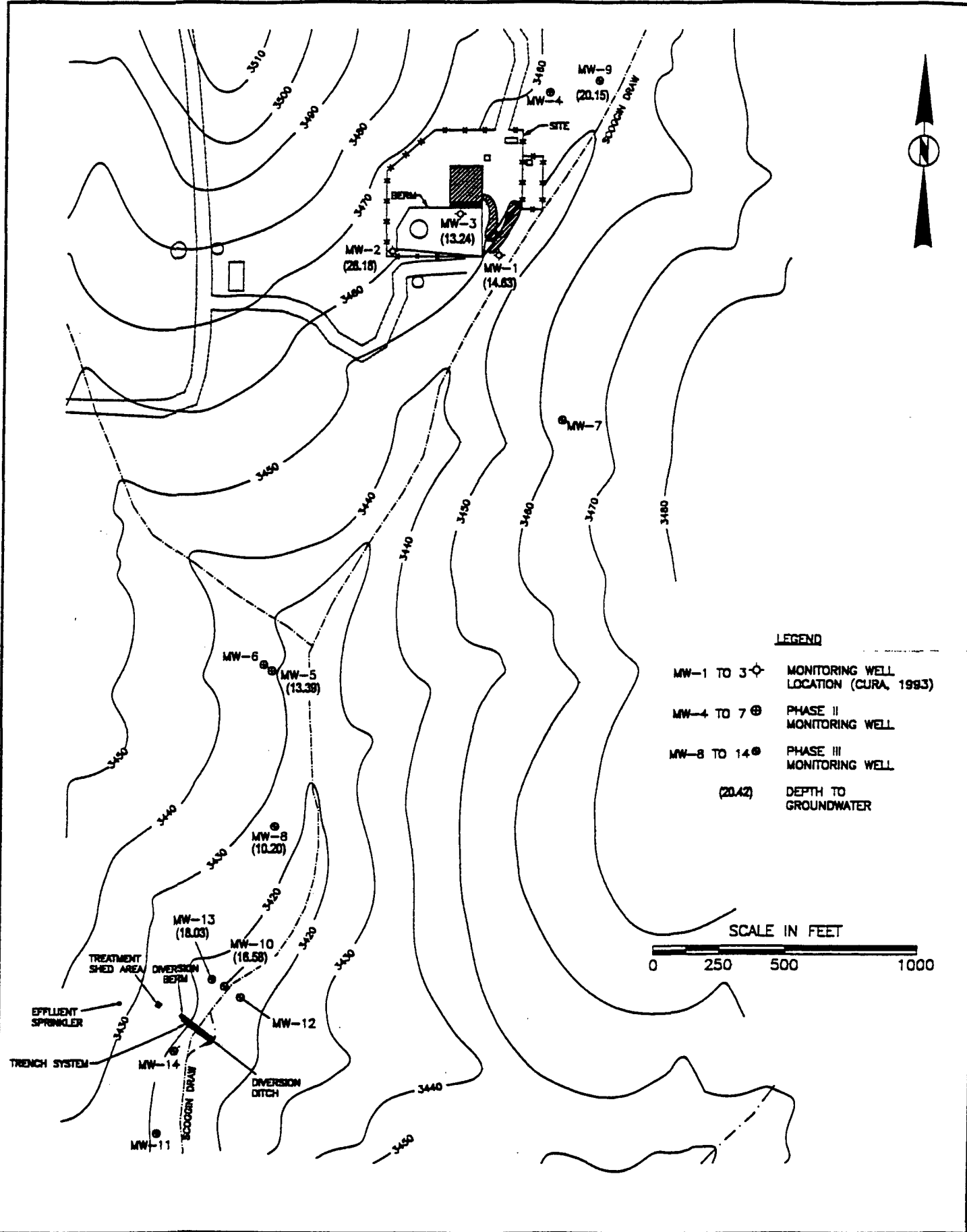
DEPTH TO GROUNDWATER
JULY 10, 1997

AMOCO PIPELINE COMPANY
ARTESIA, NEW MEXICO

Clayton
ENVIRONMENTAL
CONSULTANTS

Div. of Clayton Group Services, Inc.

FIGURE
WT-1



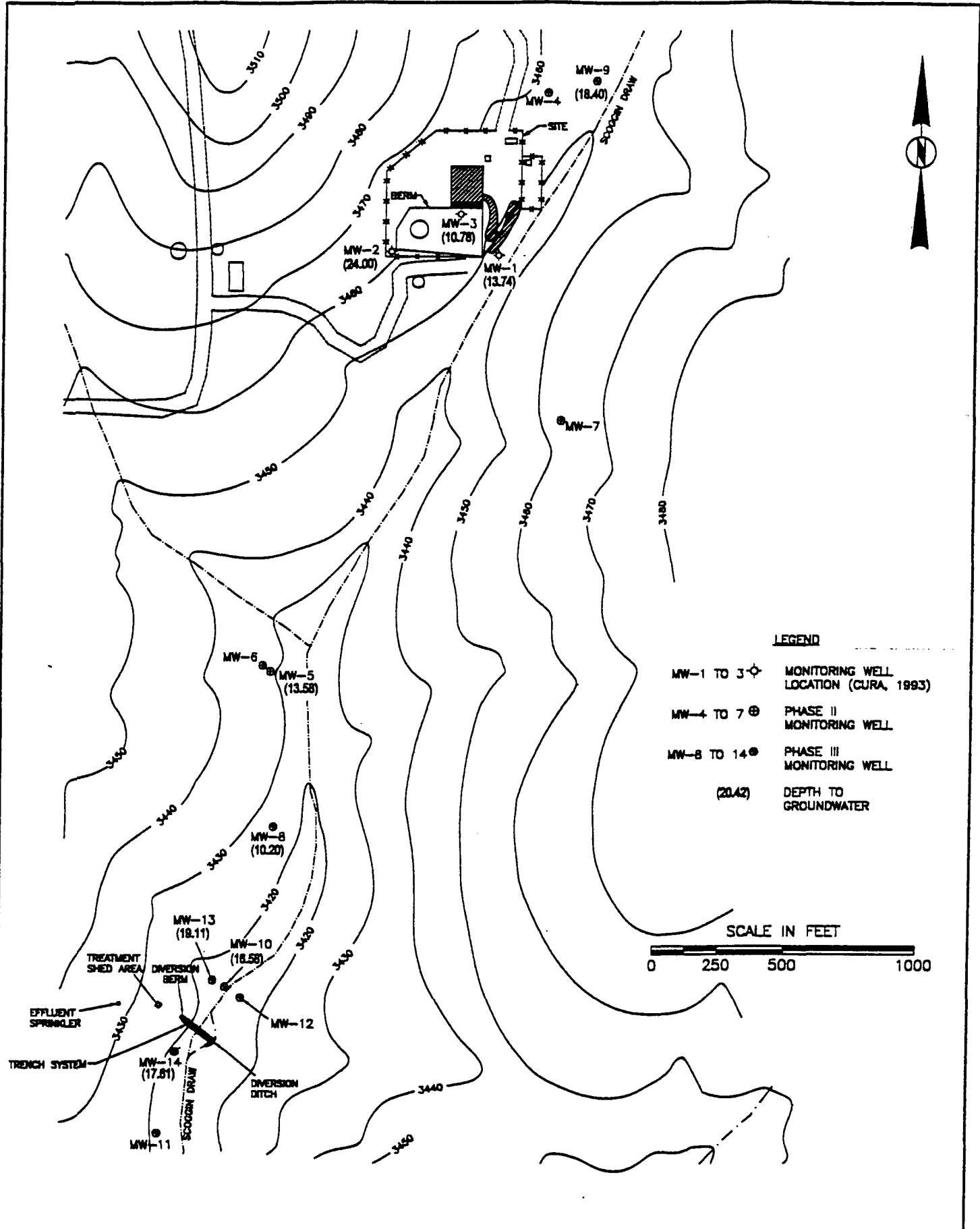
| | |
|----------|----------|
| CHECK BY | HMM |
| DRAWN BY | BCP |
| DATE | 6-26-98 |
| SCALE | AS SHOWN |
| CAD NO. | 6466101B |
| PRJ NO. | 64661.01 |

DEPTH TO GROUNDWATER
OCTOBER 17, 1997

AMOCO PIPELINE COMPANY
ARTESIA, NEW MEXICO

Clayton
ENVIRONMENTAL
CONSULTANTS
Div. of Clayton Group Services, Inc.

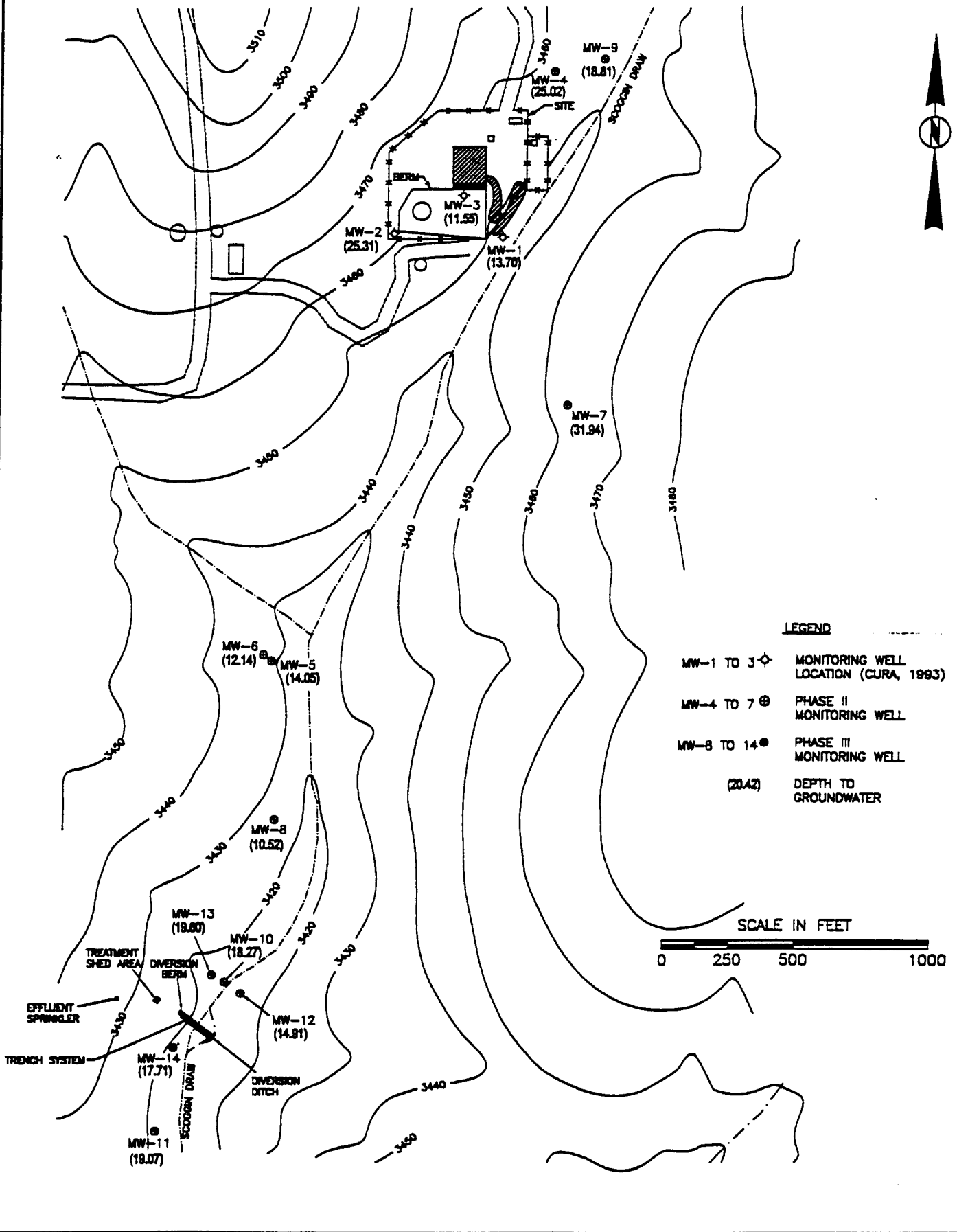
FIGURE
WT-2



| | |
|----------|----------|
| CHECK BY | HMM |
| DRAWN BY | BCP |
| DATE | 6-26-98 |
| SCALE | AS SHOWN |
| CAD NO. | 6466101C |
| PRJ NO. | 64661.01 |

DEPTH TO GROUNDWATER
 JANUARY 18, 1998
 AMOCO PIPELINE COMPANY
 ARTESIA, NEW MEXICO

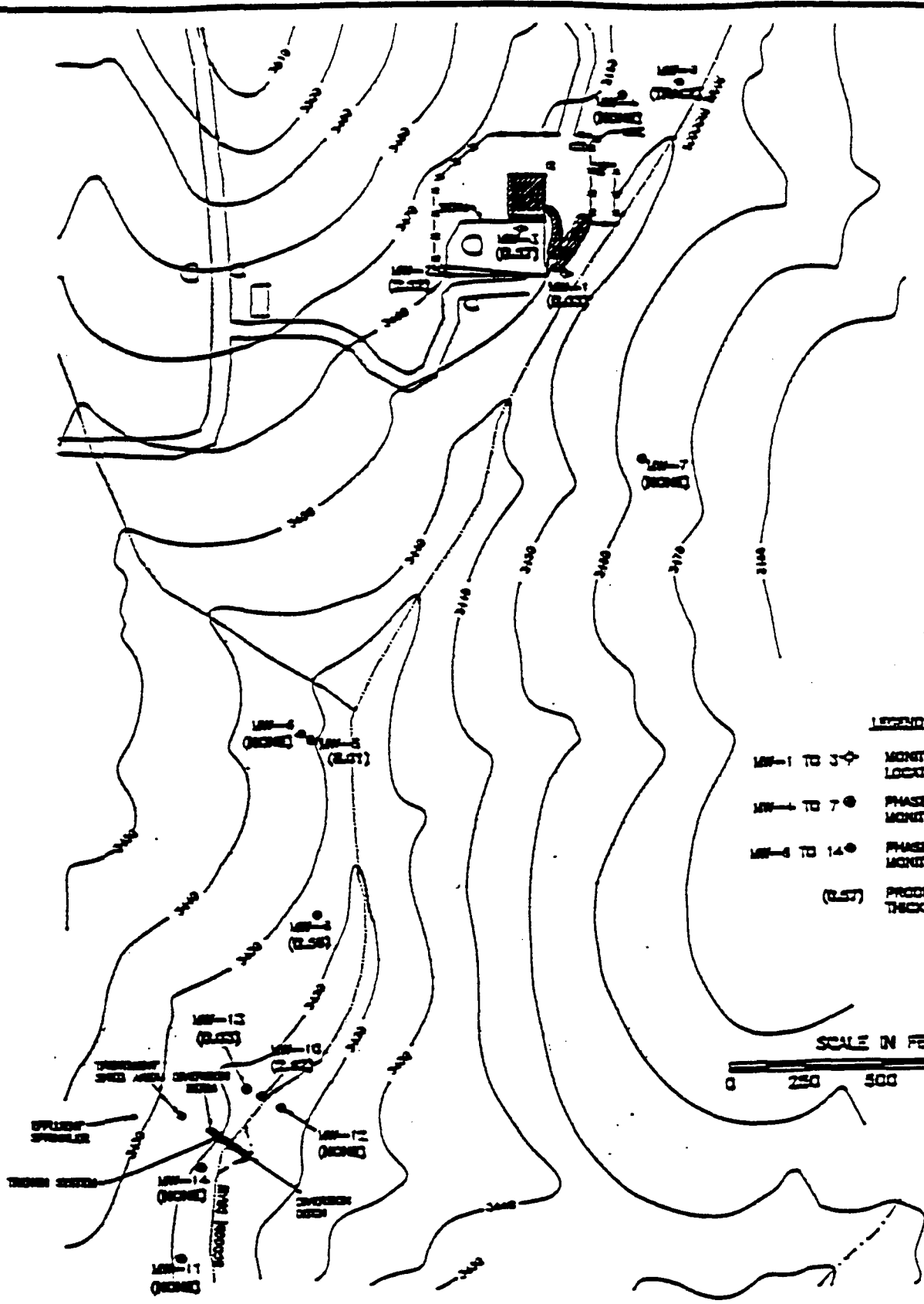
Clayton
 ENVIRONMENTAL
 CONSULTANTS
Div. of Clayton Group Services, Inc.
 FIGURE
 WT-3



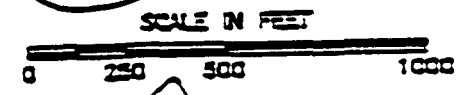
| | |
|----------|----------|
| CHECK BY | HMM |
| DRAWN BY | BCP |
| DATE | 6-26-98 |
| SCALE | AS SHOWN |
| CAD NO. | 6466101D |
| PRJ NO. | 64661.01 |

DEPTH TO GROUNDWATER
 APRIL 18, 1998
 AMOCO PIPELINE COMPANY
 ARTESIA, NEW MEXICO

Clayton
 ENVIRONMENTAL
 CONSULTANTS
Div. of Clayton Group Services, Inc.
 FIGURE WT-4



- LEGEND**
- M-1 TO 3 MONITORING WELL LOCKED (JULY, 1983)
 - M-1 TO 7 PHASE 1 MONITORING WELL
 - M-1 TO 14 PHASE 2 MONITORING WELL
 - (R.L.F.) PRODUCT LEVEL THICKNESS (IN FEET)



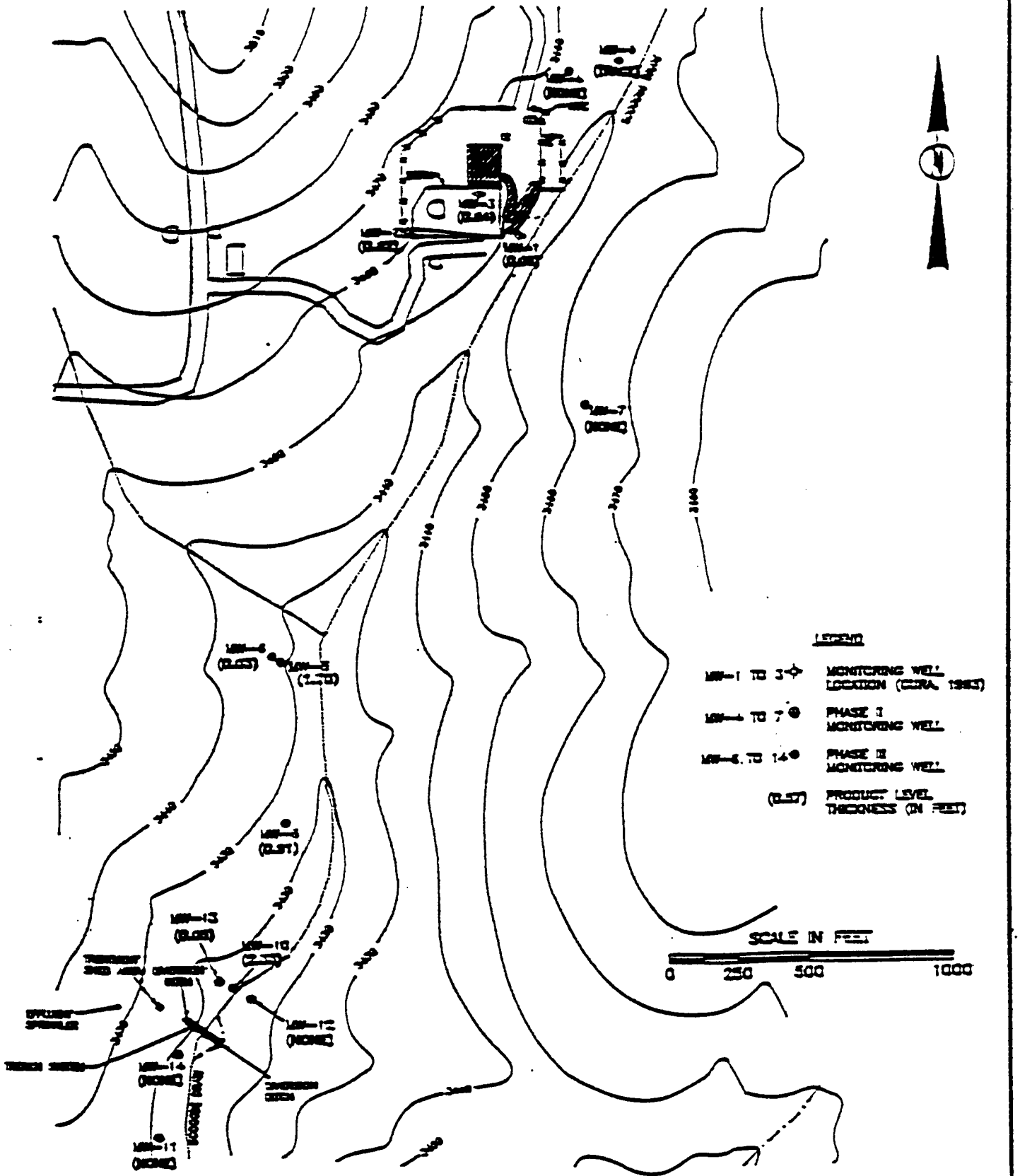
| | |
|----------|------------|
| CHECK BY | HMM |
| DRAWN BY | BCP |
| DATE | 5-3-95 |
| SCALE | AS SHOWN |
| CAD NO. | Z773-00-02 |
| PRJ. NO. | Z773-000 |

FREE PRODUCT
THICKNESS MAP
FEBRUARY 9, 1995

AMCCO PIPELINE COMPANY
ARTESIA, NEW MEXICO

Clayton
ENVIRONMENTAL
CONSULTANTS

FIGURE
1



- LEGEND**
- MW-1 TO 3 ↕ MONITORING WELL LOCATION (CONA, 1983)
 - MW-4 TO 7 ● PHASE I MONITORING WELL
 - MW-8 TO 14 ● PHASE II MONITORING WELL
 - (PLT) PRODUCT LEVEL THICKNESS (IN FEET)



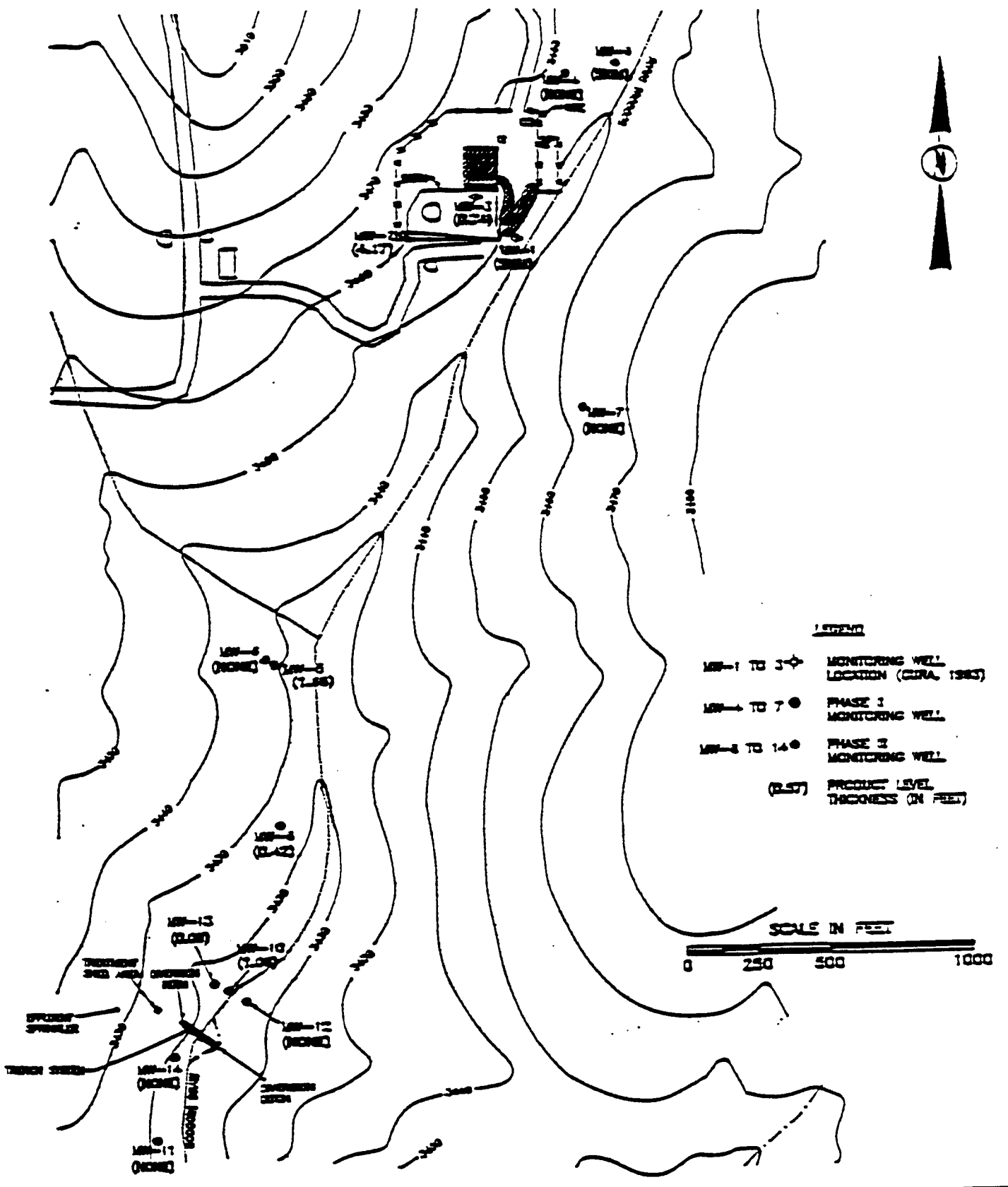
| | |
|----------|-----------|
| CHECK BY | HMM |
| DRAWN BY | BCP |
| DATE | 7-25-85 |
| SCALE | AS SHOWN |
| CAD NO. | Z773102E |
| PRJ. NO. | Z77300-02 |

FREE PRODUCT THICKNESS MAP
 JUNE 18, 1985

AMCO PIPELINE COMPANY
 ARTESIA, NEW MEXICO

Clayton
 ENVIRONMENTAL CONSULTANTS

FIGURE 2



LEGEND

- MW 1 TO 14 \diamond MONITORING WELL LOCATION (GMA, 1983)
- MW 1 TO 7 \bullet PHASE I MONITORING WELL
- MW 8 TO 14 \bullet PHASE II MONITORING WELL
- (R-57) PRODUCT LEVEL THICKNESS (IN FEET)



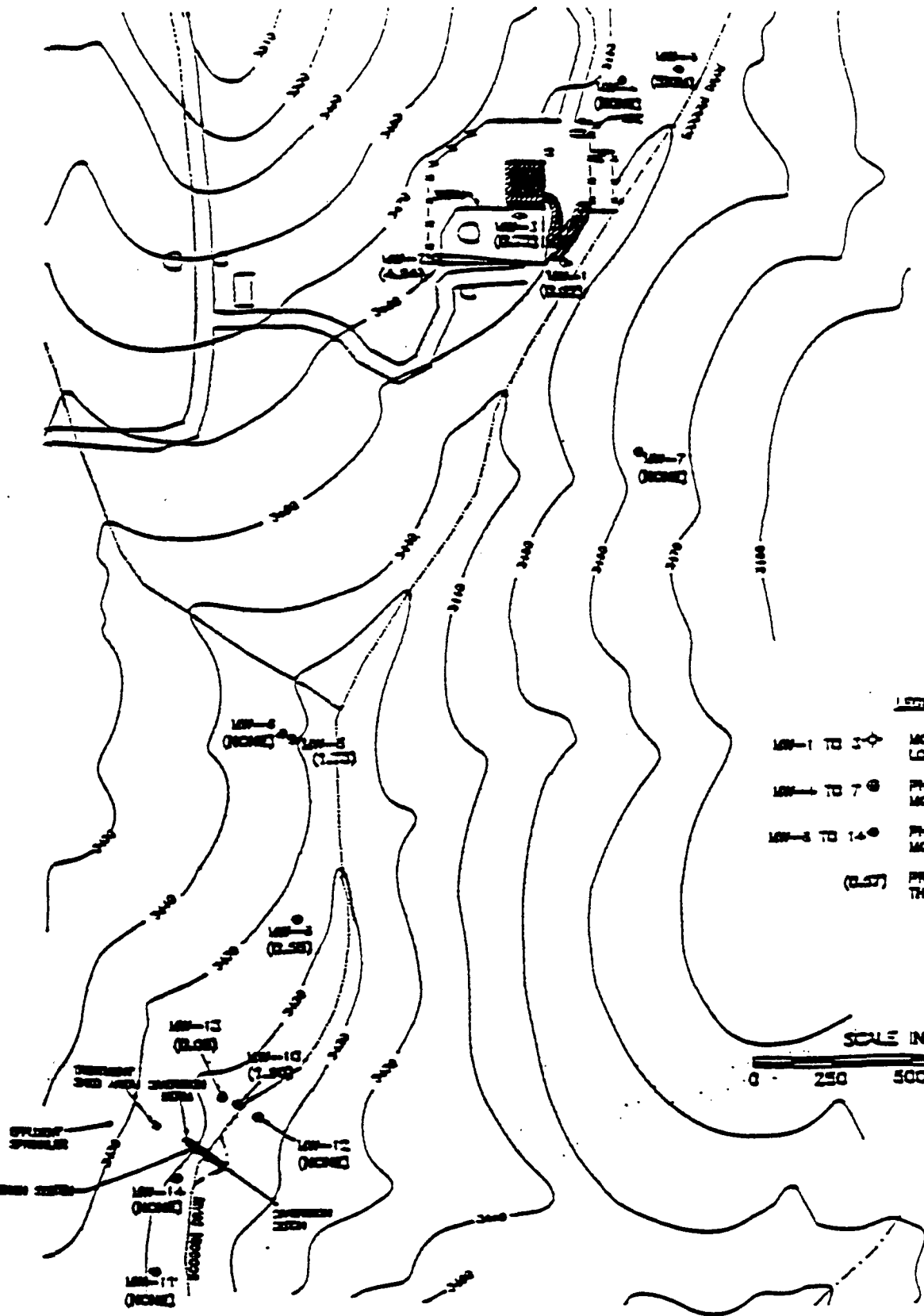
| | |
|----------|-----------|
| CHECK BY | HMM |
| DRAWN BY | BCP |
| DATE | 10-16-85 |
| SCALE | AS SHOWN |
| CAD NO. | Z77300-02 |
| PRJ NO. | Z7731005 |

FREE PRODUCT THICKNESS MAP
OCTOBER 2, 1985

AMOCO PIPELINE COMPANY
ARTESIA, NEW MEXICO

Clayton
ENVIRONMENTAL CONSULTANTS

FIGURE 3



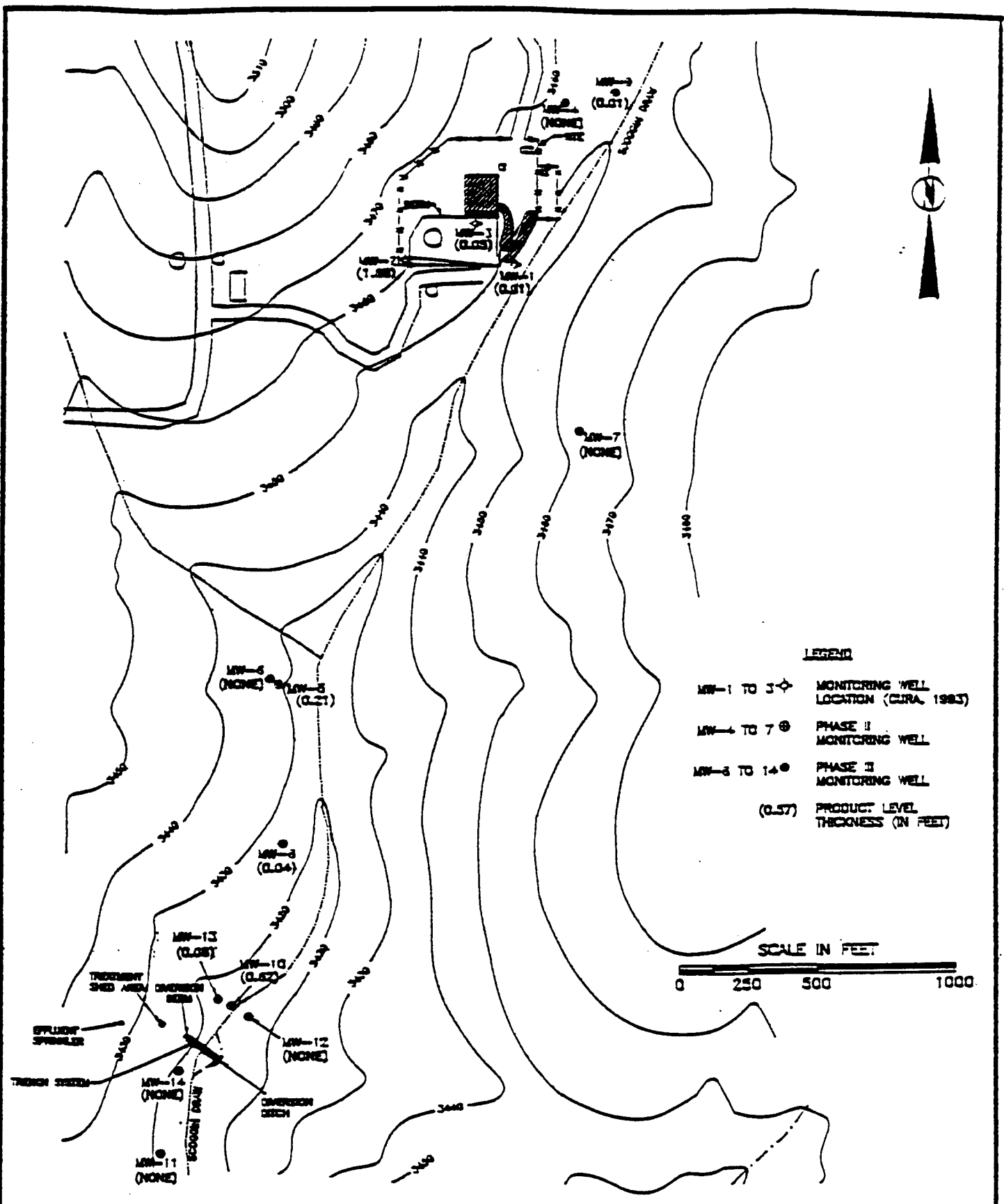
- LEGEND**
- ▲ MW-1, MW-2, MW-3 MONITORING WELL LOCATION (GURA 1983)
 - MW-1, MW-2, MW-3 PHASE I MONITORING WELL
 - MW-1, MW-2, MW-3 PHASE II MONITORING WELL
 - (L) PRODUCT LEVEL THICKNESS (IN FEET)



| | |
|----------|-----------|
| CHECK BY | HMM |
| DRAWN BY | BCP |
| DATE | 1-12-96 |
| SCALE | AS SHOWN |
| CAD NO. | Z77300-02 |
| PRJ. NO. | Z773102G |

FREE PRODUCT THICKNESS MAP
 NOVEMBER 25-28, 1995
 AMOCO PIPELINE COMPANY
 ARTESIA, NEW MEXICO

Clayton
 ENVIRONMENTAL CONSULTANTS
 FIGURE 4



LEGEND

MW-1 TO 3 ◊ MONITORING WELL LOCATION (CURA, 1983)

MW-4 TO 7 ⊕ PHASE II MONITORING WELL

MW-8 TO 14 ⊙ PHASE III MONITORING WELL

(0.57) PRODUCT LEVEL THICKNESS (IN FEET)

SCALE IN FEET

0 250 500 1000

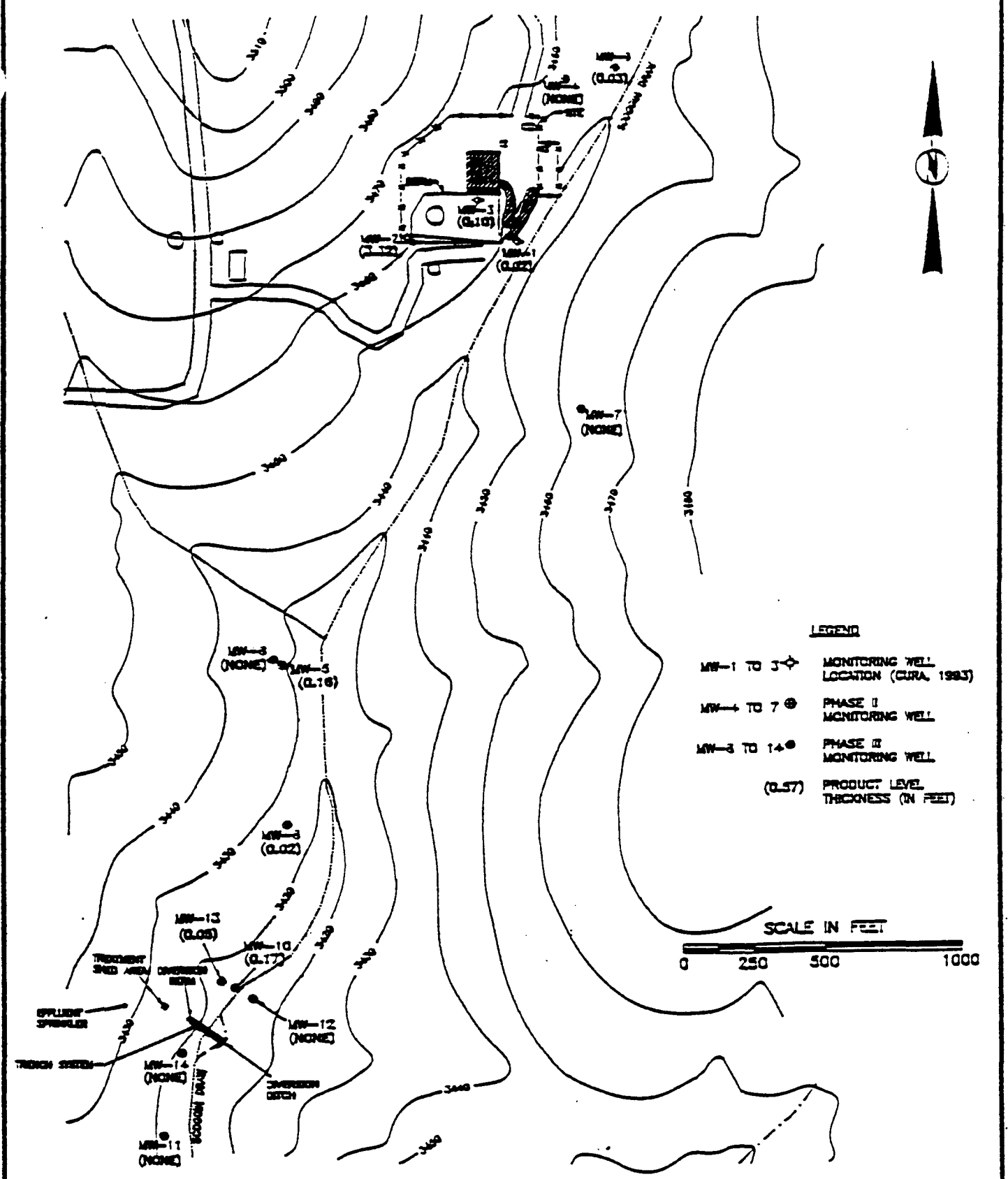
| | |
|----------|------------|
| CHECK BY | HMM |
| DRAWN BY | BCP |
| DATE | 4-24-96 |
| SCALE | AS SHOWN |
| CAO NO. | 2773.00-02 |
| PRJ NO. | 27731024 |

FREE PRODUCT THICKNESS MAP
 APRIL 16-17, 1996

AMOCO PIPELINE COMPANY
 ARTESIA, NEW MEXICO

Clayton
 ENVIRONMENTAL CONSULTANTS

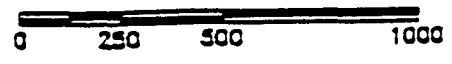
FIGURE 5



LEGEND

- MW-1 TO 3 ◊ MONITORING WELL LOCATION (CURA, 1983)
- MW-4 TO 7 ⊕ PHASE II MONITORING WELL
- MW-8 TO 14 ⊙ PHASE III MONITORING WELL
- (0.57) PRODUCT LEVEL THICKNESS (IN FEET)

SCALE IN FEET



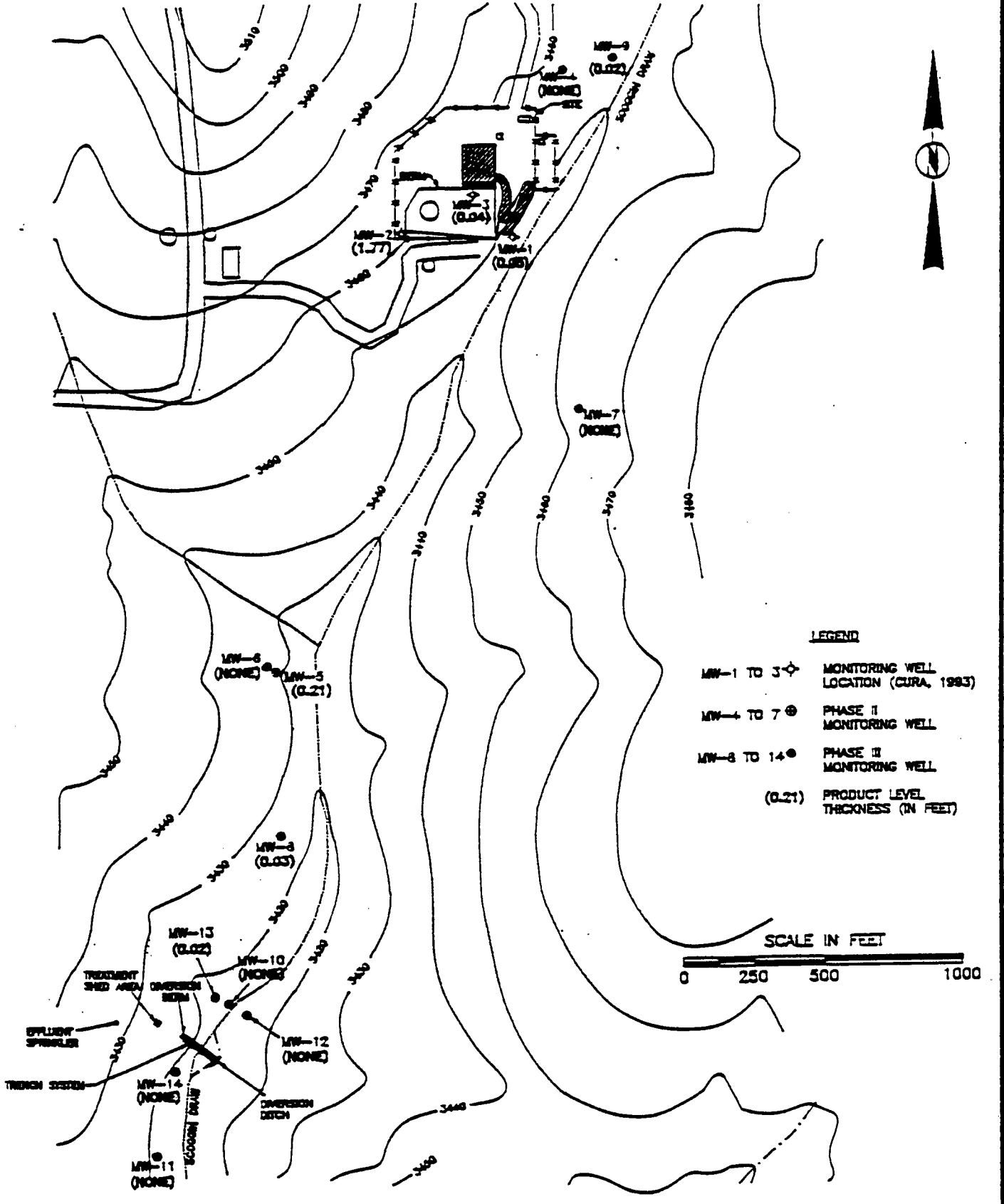
| | |
|----------|------------|
| CHECK BY | HMM |
| DRAWN BY | BCP |
| DATE | 7-18-96 |
| SCALE | AS SHOWN |
| CAD NO. | 2773.00-02 |
| PRJ NO. | 27751021 |

FREE PRODUCT THICKNESS MAP
JULY 2, 1996

AMCCO PIPELINE COMPANY
ARTESIA, NEW MEXICO

Clayton
ENVIRONMENTAL CONSULTANTS

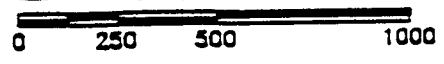
FIGURE 6



LEGEND

- MW-1 TO 3 ◊ MONITORING WELL LOCATION (CURA, 1993)
- MW-4 TO 7 ⊕ PHASE II MONITORING WELL
- MW-8 TO 14 ● PHASE III MONITORING WELL
- (0.21) PRODUCT LEVEL THICKNESS (IN FEET)

SCALE IN FEET



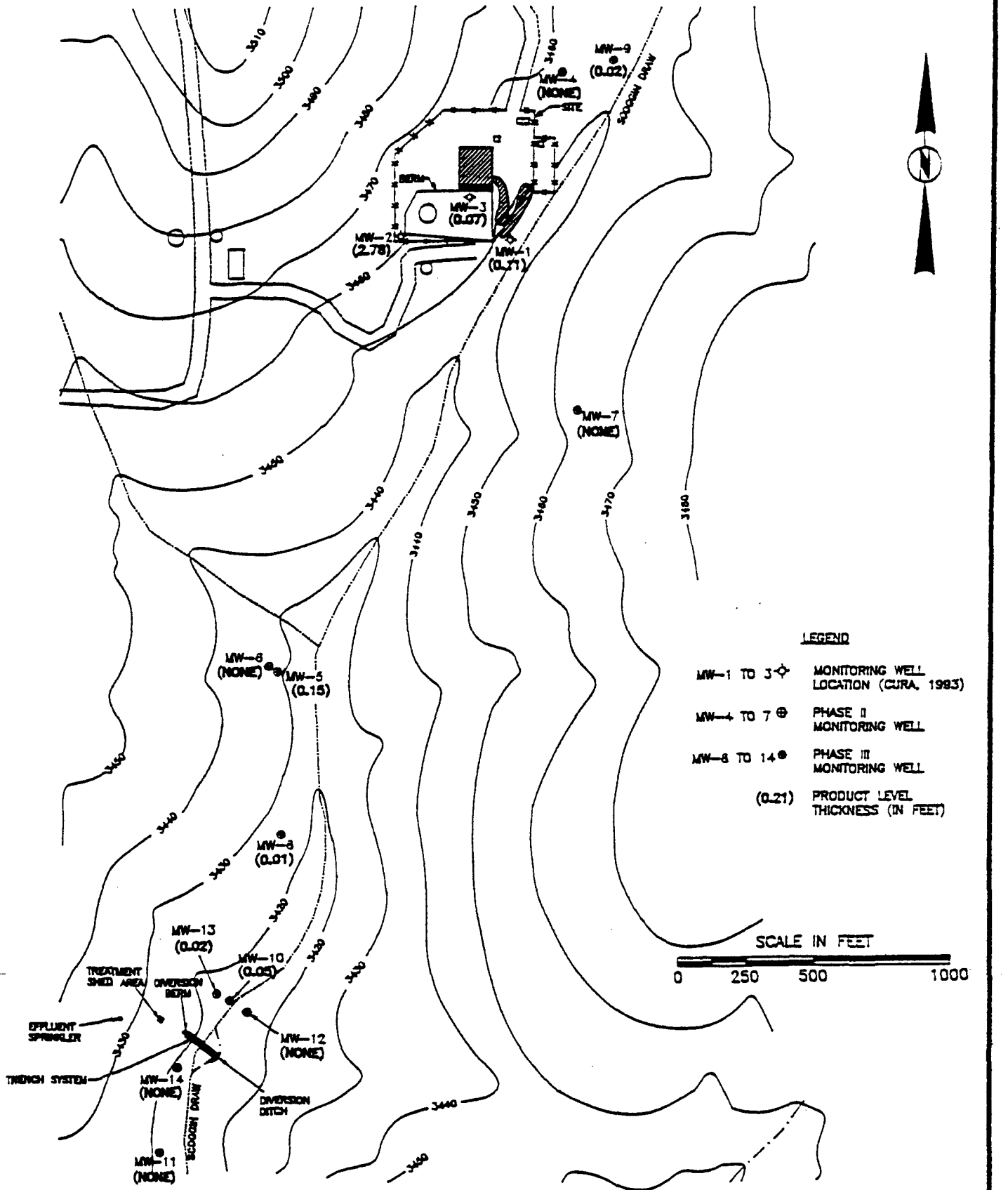
| | |
|----------|------------|
| CHECK BY | HMM |
| DRAWN BY | BCP |
| DATE | 10-9-96 |
| SCALE | AS SHOWN |
| CAO NO. | Z775.00-02 |
| PRJ NO. | Z775102J |

FREE PRODUCT THICKNESS MAP
 SEPTEMBER 30, 1996

AMOCO PIPELINE COMPANY
 ARTESIA, NEW MEXICO

Clayton
 ENVIRONMENTAL CONSULTANTS

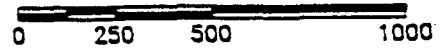
FIGURE 7



LEGEND

- MW-1 TO 3 ◊ MONITORING WELL LOCATION (CJRA, 1993)
- MW-4 TO 7 ⊕ PHASE II MONITORING WELL
- MW-8 TO 14 ● PHASE III MONITORING WELL
- (0.21) PRODUCT LEVEL THICKNESS (IN FEET)

SCALE IN FEET



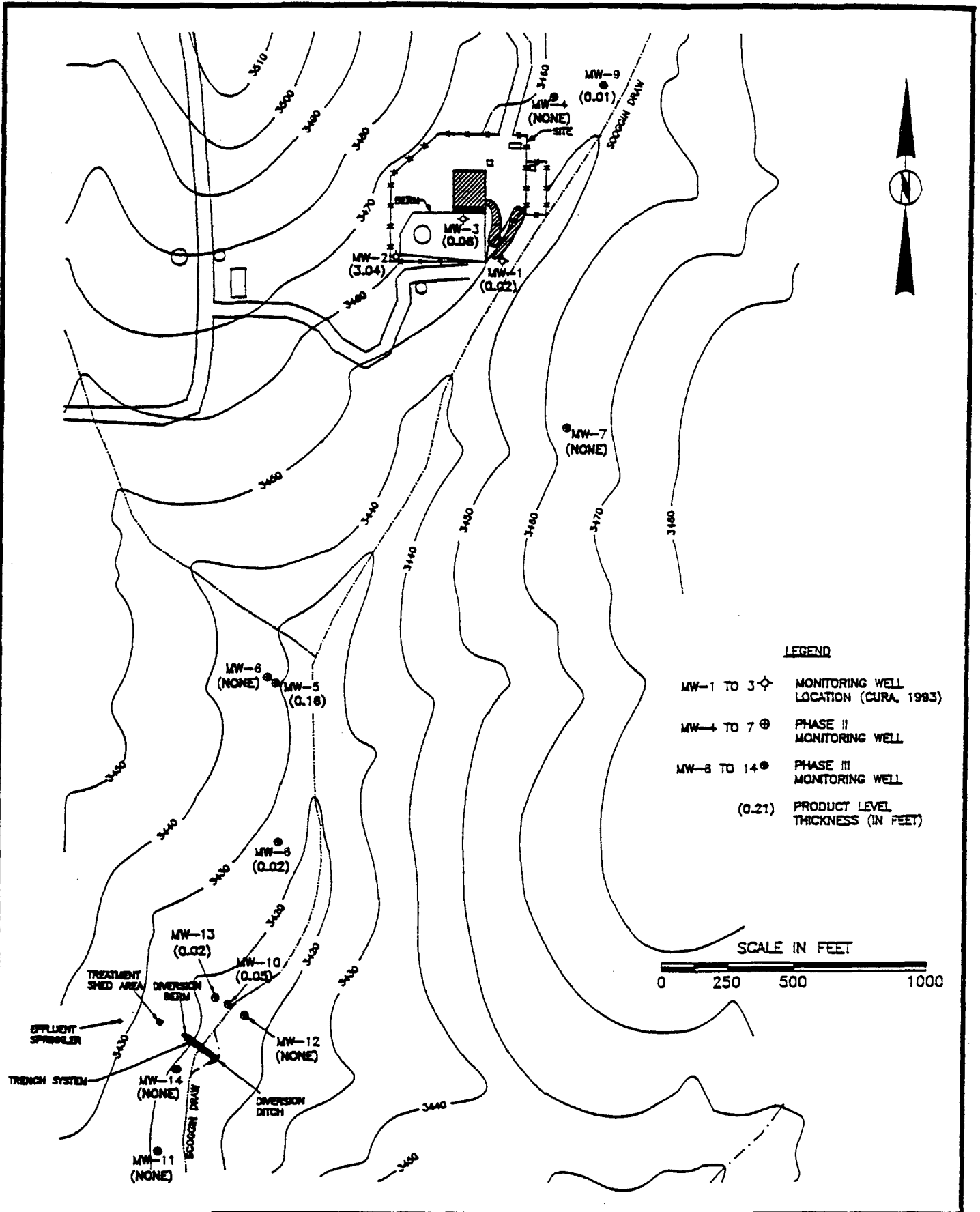
| | |
|----------|------------|
| CHECK BY | HMM |
| DRAWN BY | BCP |
| DATE | 1-23-97 |
| SCALE | AS SHOWN |
| CAD NO. | 2775.00-02 |
| PRJ NO. | 2775102K |

FREE PRODUCT THICKNESS MAP
 JANUARY 10, 1997

AMOCO PIPELINE COMPANY
 ARTESIA, NEW MEXICO

Clayton
 ENVIRONMENTAL CONSULTANTS

FIGURE 8



LEGEND

- MW-1 TO 3 ◊ MONITORING WELL LOCATION (CURA, 1983)
- MW-4 TO 7 ⊕ PHASE II MONITORING WELL
- MW-8 TO 14 ● PHASE III MONITORING WELL
- (0.21) PRODUCT LEVEL THICKNESS (IN FEET)

SCALE IN FEET



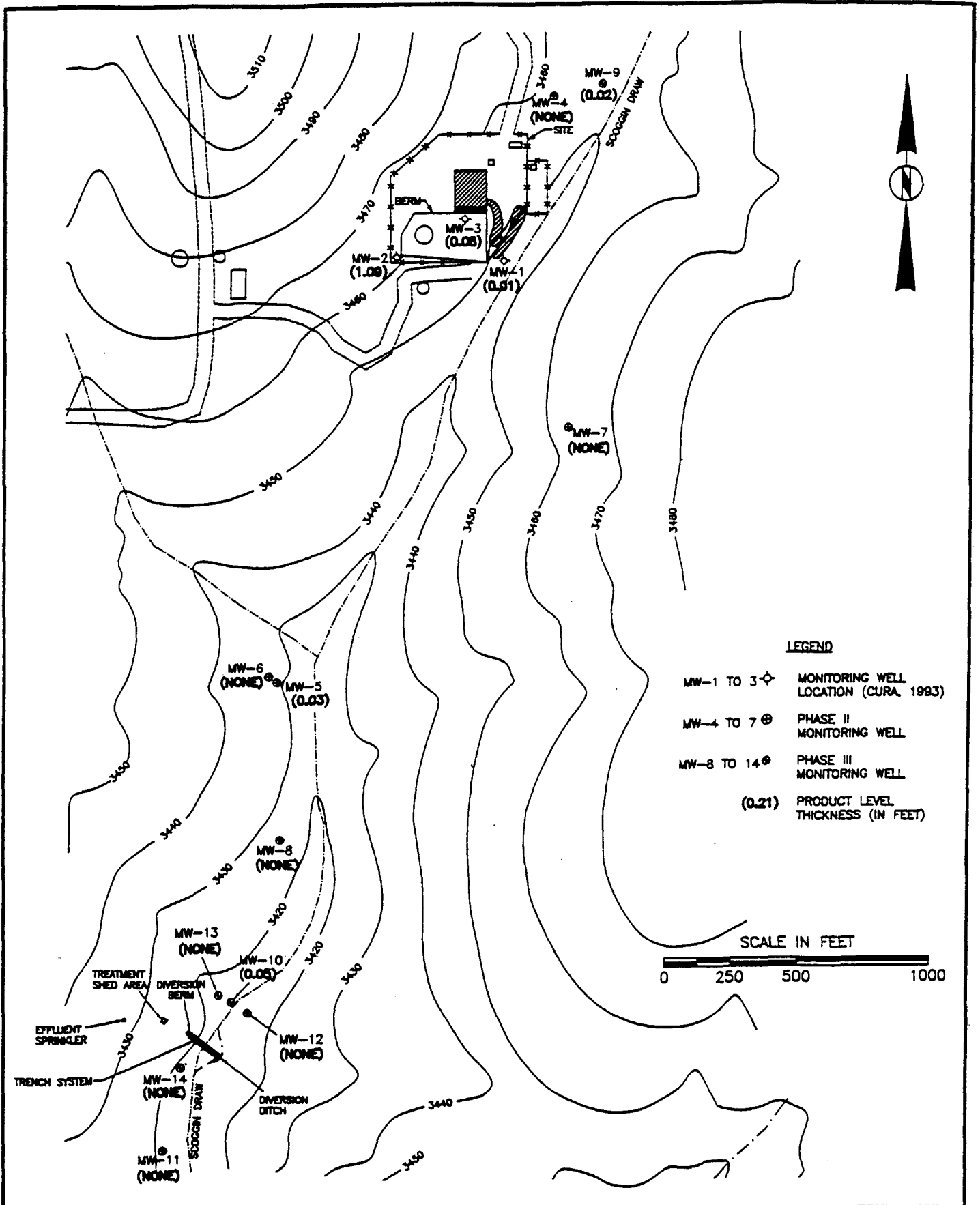
| | |
|----------|------------|
| CHECK BY | HMM |
| DRAWN BY | BCP |
| DATE | 4-16-97 |
| SCALE | AS SHOWN |
| CAD NO. | 2775.00-02 |
| PRJ NO. | 2775102L |

FREE PRODUCT THICKNESS MAP
APRIL 2, 1997

AMOCO PIPELINE COMPANY
ARTESIA, NEW MEXICO

Clayton
ENVIRONMENTAL CONSULTANTS

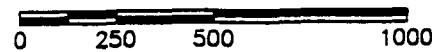
FIGURE



LEGEND

- MW-1 TO 3 ◊ MONITORING WELL LOCATION (CURA, 1993)
- MW-4 TO 7 ⊕ PHASE II MONITORING WELL
- MW-8 TO 14 ⊙ PHASE III MONITORING WELL
- (0.21) PRODUCT LEVEL THICKNESS (IN FEET)

SCALE IN FEET



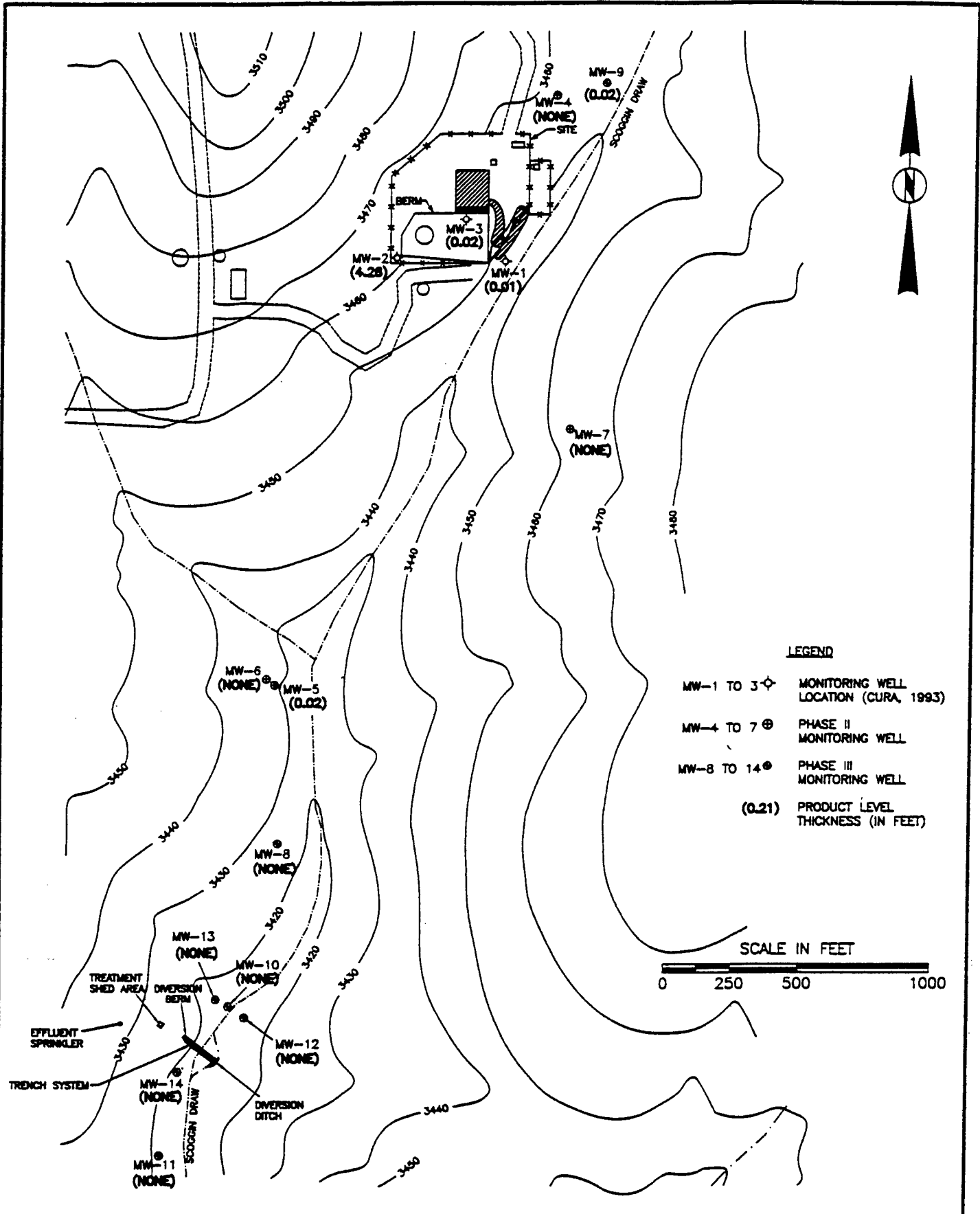
| | |
|----------|------------|
| CHECK BY | HMM |
| DRAWN BY | BCP |
| DATE | 5-11-98 |
| SCALE | AS SHOWN |
| CAD NO. | 2775.00-02 |
| PRJ NO. | 2775102M |

FREE PRODUCT THICKNESS MAP
JULY 10, 1997

AMOCO PIPELINE COMPANY
ARTESIA, NEW MEXICO

Clayton
ENVIRONMENTAL CONSULTANTS

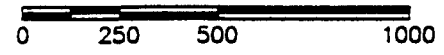
FIGURE 10



LEGEND

- MW-1 TO 3 ◊ MONITORING WELL LOCATION (CURA, 1993)
- MW-4 TO 7 ⊕ PHASE II MONITORING WELL
- MW-8 TO 14 ⊙ PHASE III MONITORING WELL
- (0.21) PRODUCT LEVEL THICKNESS (IN FEET)

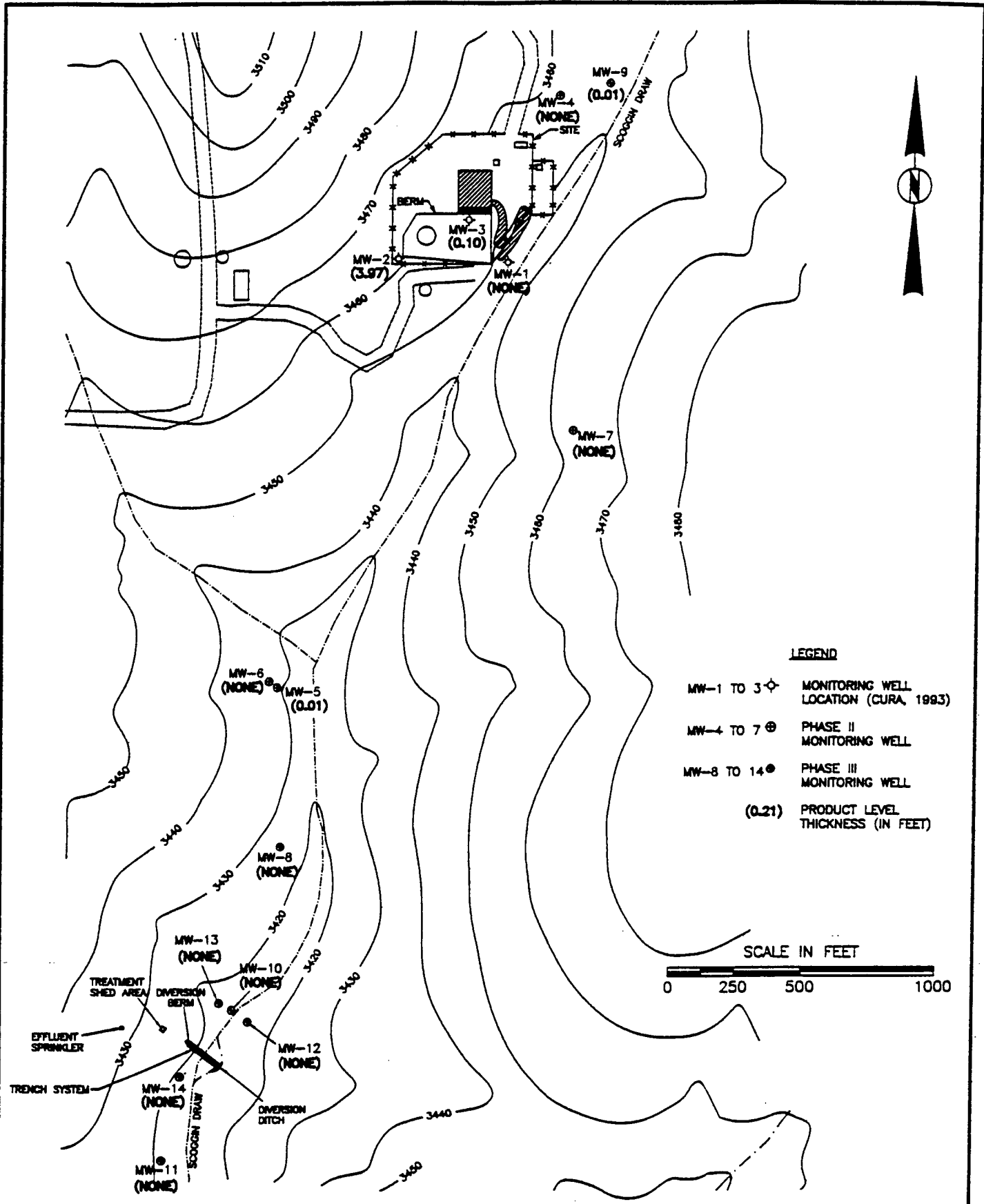
SCALE IN FEET



| | |
|----------|------------|
| CHECK BY | HMM |
| DRAWN BY | BCP |
| DATE | 5-11-98 |
| SCALE | AS SHOWN |
| CAD NO. | 2775.00-02 |
| PRJ NO. | 2775102N |

FREE PRODUCT THICKNESS MAP
 OCTOBER 17, 1997
 AMOCO PIPELINE COMPANY
 ARTESIA, NEW MEXICO

Clayton
 ENVIRONMENTAL CONSULTANTS

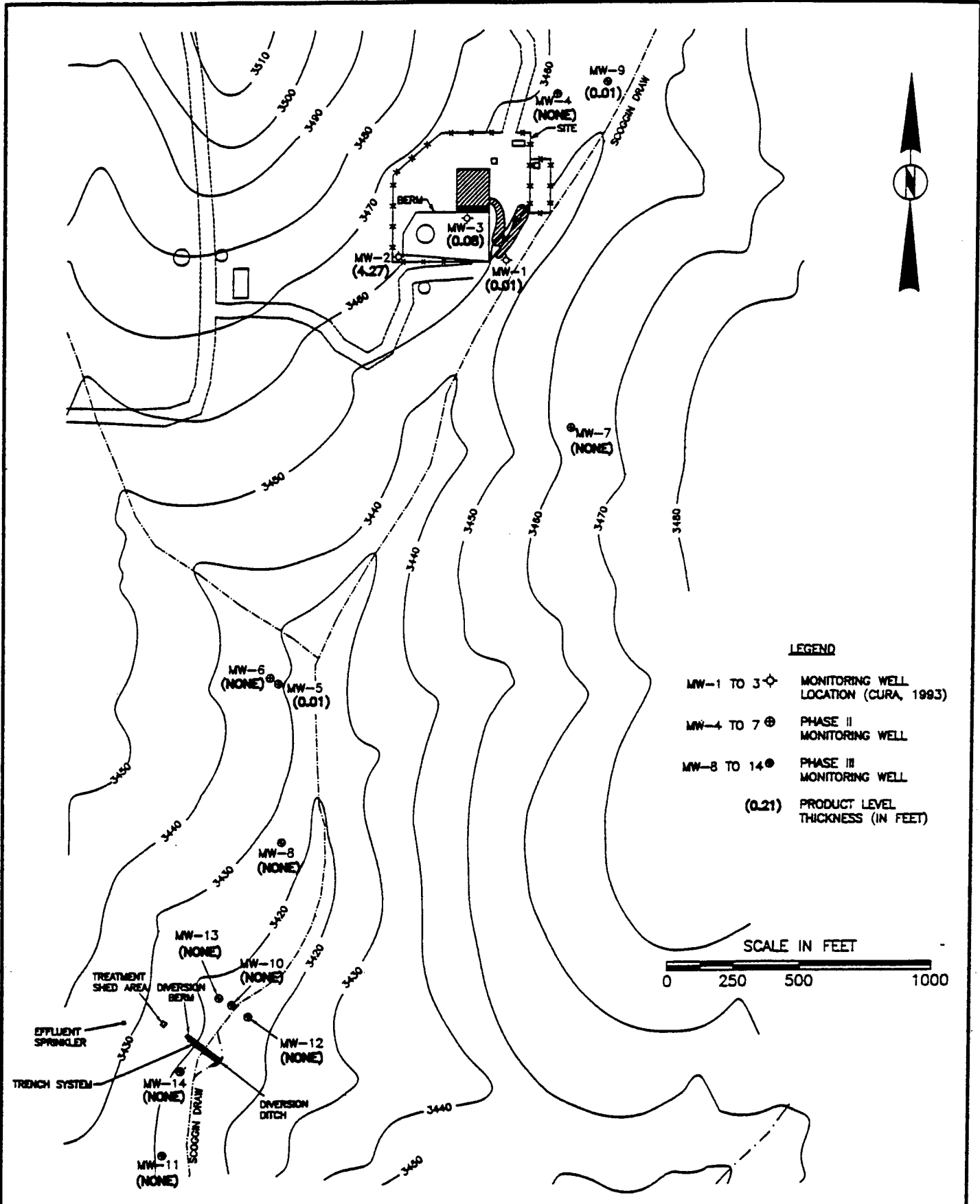


| | |
|----------|------------|
| CHECK BY | HMM |
| DRAWN BY | BCP |
| DATE | 5-11-98 |
| SCALE | AS SHOWN |
| CAD NO. | 2775.00-02 |
| PRJ NO. | 27751020 |

FREE PRODUCT THICKNESS MAP
 JANUARY 18, 1998
 AMOCO PIPELINE COMPANY
 ARTESIA, NEW MEXICO

Clayton
 ENVIRONMENTAL CONSULTANTS

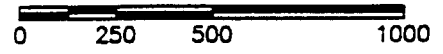
FIGURE 12



LEGEND

- MW-1 TO 3 ⊕ MONITORING WELL LOCATION (CURA, 1993)
- MW-4 TO 7 ⊕ PHASE II MONITORING WELL
- MW-8 TO 14 ⊕ PHASE III MONITORING WELL
- (0.21) PRODUCT LEVEL THICKNESS (IN FEET)

SCALE IN FEET



| | |
|----------|------------|
| CHECK BY | HMM |
| DRAWN BY | BCP |
| DATE | 5-11-98 |
| SCALE | AS SHOWN |
| CAD NO. | 2775.00-02 |
| PRJ NO. | 2775102P |

FREE PRODUCT THICKNESS MAP
APRIL 18, 1998

AMOCO PIPELINE COMPANY
ARTESIA, NEW MEXICO

Clayton
ENVIRONMENTAL
CONSULTANTS

FIGURE 13

TABLE 1
BETX Results for Monitoring Wells with No Free Product

Amoco Pipeline Company / Artesia, New Mexico

| WELL 4 | | | | | | | | | | | | | | | |
|----------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Sample Date: | 11/25/94 | 12/22/94 | 02/16/95 | 06/16/95 | 10/02/95 | 11/26/95 | 04/17/96 | 07/05/96 | 09/30/96 | 01/10/97 | 04/02/97 | 07/10/97 | 09/14/97 | 01/18/98 | 04/18/98 |
| Benzene | <1 | <1 | <1 | 54.4 | 9.8 | 4.7 | 6.3 | 5.0 | <1 | <1 | 1.3 | N/A | N/A | N/A | 750 |
| Ethylbenzene | <1 | <1 | <1 | 2.5 | <1 | 1.3 | <1.0 | <1 | <1 | <1 | <1 | N/A | N/A | N/A | 100 |
| Toluene | <1 | <1 | <1 | <1 | <1 | 2.0 | 1.1 | <1 | <1 | <1 | <1 | N/A | N/A | N/A | 130 |
| Xylene | <1 | <1 | <1 | 6.7 | <1 | 3.8 | 3.6 | 2.0 | <1 | <1 | <1 | N/A | N/A | N/A | 150 |
| WELL 6 | | | | | | | | | | | | | | | |
| Sample Date: | 11/25/94 | 12/21/94 | 02/16/95 | 06/16/95 | 10/02/95 | 11/26/95 | 04/16/96 | 07/06/96 | 09/30/96 | 01/10/97 | 04/02/97 | 07/10/97 | 09/14/97 | 01/18/98 | 04/18/98 |
| Benzene | FREE | FREE | 2.2 | FREE | 3.1 | 5.8 | <1 | <1 | <1 | <1 | <1 | N/A | N/A | N/A | <1 |
| Ethylbenzene | PRODUCT | PRODUCT | <1 | PRODUCT | <1 | 6.1 | <1 | <1 | 2.0 | <1 | <1 | N/A | N/A | N/A | <1 |
| Toluene | PRESENT | PRESENT | <1 | PRESENT | <1 | <1.0 | <1 | <1 | <1 | <1 | <1 | N/A | N/A | N/A | <1 |
| Xylene | | | <1 | | 2.5 | 19 | 3.7 | <1 | <1 | <1 | <1 | N/A | N/A | N/A | <1 |
| WELL 7 | | | | | | | | | | | | | | | |
| Sample Date: | 11/25/94 | 12/22/94 | 02/16/95 | 06/16/95 | 10/02/95 | 11/26/95 | 04/17/96 | 07/06/96 | 09/30/96 | 01/10/97 | 04/02/97 | 07/10/97 | 09/14/97 | 01/18/98 | 04/18/98 |
| Benzene | <1 | 1590 | 846 | 3100 | 880 | 3000 | 1900 | 1,800 | 170 | 160 | <1 | N/A | N/A | N/A | 120 |
| Ethylbenzene | <1 | 39 | 20.9 | 58.7 | 17 | 51 | 130 | 160 | <2 | <1 | <1 | N/A | N/A | N/A | <1 |
| Toluene | <1 | <10 | <10 | 3.6 | <10 | 4.6 | <20 | <10 | <2 | <1 | <1 | N/A | N/A | N/A | <1 |
| Xylene | <1 | 86.5 | 52.7 | 140 | 35 | 200 | 100 | 120 | 11 | 3.2 | <1 | N/A | N/A | N/A | 7.7 |
| WELL 8 | | | | | | | | | | | | | | | |
| Sample Date: | 11/17/94 | 12/22/94 | 02/16/95 | 06/16/95 | 10/02/95 | 11/26/95 | 04/16/96 | 07/02/96 | 09/30/96 | 01/10/97 | 04/02/97 | 07/10/97 | 09/14/97 | 01/18/98 | 04/18/98 |
| Benzene | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 3,800 |
| Ethylbenzene | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 480 |
| Toluene | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 820 |
| Xylene | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 1,100 |
| WELL 10 | | | | | | | | | | | | | | | |
| Sample Date: | 11/17/94 | 12/22/94 | 02/16/95 | 06/14/95 | 10/02/95 | 11/25/95 | 04/16/96 | 07/02/96 | 09/30/96 | 01/10/97 | 04/02/97 | 07/10/97 | 09/14/97 | 01/18/98 | 04/18/98 |
| Benzene | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 62 | N/A | N/A | N/A | N/A | N/A | 91 |
| Ethylbenzene | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 2.2 | N/A | N/A | N/A | N/A | N/A | <1 |
| Toluene | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | <1 | N/A | N/A | N/A | N/A | N/A | <1 |
| Xylene | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 2.2 | N/A | N/A | N/A | N/A | N/A | 20 |
| WELL 11 | | | | | | | | | | | | | | | |
| Sample Date: | 11/17/94 | 12/22/94 | 02/16/95 | 06/14/95 | 10/02/95 | 11/25/95 | 04/16/96 | 07/02/96 | 09/30/96 | 01/10/97 | 04/02/97 | 07/10/97 | 09/14/97 | 01/18/98 | 04/18/98 |
| Benzene | <1 | <1 | <1 | <1 | <1 | 1.3 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Ethylbenzene | <1 | <1 | <1 | <1 | <1 | 2.1 | 1.1 | <1 | <1 | 1.5 | <1 | <1 | <1 | <1 | <1 |
| Toluene | <1 | <1 | <1 | <1 | <1 | 5.3 | 2.8 | <1 | <1 | 1.2 | <1 | <1 | <1 | <1 | <1 |
| Xylene | <1 | <1 | <1 | <1 | <1 | 6.1 | 3.7 | <1 | <1 | 6 | <1 | <1 | <1 | <1 | <1 |
| WELL 12 | | | | | | | | | | | | | | | |
| Sample Date: | 11/17/94 | 12/22/94 | 02/16/95 | 06/16/95 | 10/02/95 | 11/26/95 | 04/16/96 | 07/02/96 | 09/30/96 | 01/10/97 | 04/02/97 | 07/10/97 | 09/14/97 | 01/18/98 | 04/18/98 |
| Benzene | 75 | 5.6 | <1 | <1 | <1 | 1.1 | 1.5 | 4.1 | 30 | 2.3 | <1 | N/A | N/A | N/A | 3.9 |
| Ethylbenzene | 1 | <1 | <1 | <1 | <1 | <1.0 | 1.8 | <1 | <1 | <1 | <1 | N/A | N/A | N/A | <1 |
| Toluene | 1.1 | <1 | <1 | <1 | <1 | 3.5 | 5.1 | <1 | <1 | <1 | <1 | N/A | N/A | N/A | <1 |
| Xylene | 1 | <1 | <1 | <1 | <1 | 5.1 | 5.8 | 1.2 | <1 | <1 | <1 | N/A | N/A | N/A | <1 |
| WELL 13 | | | | | | | | | | | | | | | |
| Sample Date: | 11/17/94 | 12/22/94 | 02/16/95 | 06/16/95 | 10/02/95 | 11/26/95 | 04/16/96 | 07/02/96 | 09/30/96 | 01/10/97 | 04/02/97 | 07/10/97 | 09/14/97 | 01/18/98 | 04/18/98 |
| Benzene | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | <1 |
| Ethylbenzene | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 6.1 |
| Toluene | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | <1 |
| Xylene | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 13 |
| WELL 14 | | | | | | | | | | | | | | | |
| Sample Date: | 11/17/94 | 12/22/94 | 02/16/95 | 06/16/95 | 10/02/95 | 11/26/95 | 04/16/96 | 07/02/96 | 09/30/96 | 01/10/97 | 04/02/97 | 07/10/97 | 09/14/97 | 01/18/98 | 04/18/98 |
| Benzene | <1 | <1 | <1 | <1 | <1 | <1.0 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Ethylbenzene | <1 | <1 | <1 | <1 | <1 | 1.7 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Toluene | <1 | <1 | <1 | <1 | <1 | 3.6 | 1.7 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Xylene | <1 | <1 | <1 | <1 | <1 | 6.8 | 2.4 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |

NOTES: All results are in ug/L. N/A = Not Applicable



APPENDIX B

**Laboratory Analytical
Results**



**NATIONAL
ENVIRONMENTAL
TESTING, INC.**

Bartlett Division
850 West Bartlett Rd.
Bartlett, IL 60103
Tel: (630) 289-3100
Fax: (630) 289-5445

Rockford Division
3548 35th Street
Rockford, IL 61109
Tel: (815) 874-2171
Fax: (815) 874-5622
(800) 807-2877

Mr. Hank Mittelhauser
CLAYTON ENVIRONMENTAL
1240 Iroquois Drive
Suite 206
Naperville, IL 60563

08/31/1998

NET Job Number: 98.11031

IEPA Cert. No.: 100221
WDNR Cert. No.: 999447130
A2LA Cert. No.: 0453-01

Enclosed is the Analytical and Quality Control reports for the following samples submitted to Bartlett Division of NET, Inc. for analysis.

Project Description: Artesia Station, NM

| Sample Number | Sample Description | Date Taken | Date Received |
|---------------|--------------------|------------|---------------|
| 489710 | Monitor Well #11 | 08/19/1998 | 08/21/1998 |
| 489711 | Monitor Well #14 | 08/19/1998 | 08/21/1998 |

Sample analysis in support of the project referenced above has been completed and results are presented on the following pages. These results apply only to the samples analyzed. Reproduction of this report only in whole is permitted. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Procedures used follow NET Standard Operating Procedures which reference the methods listed on your report. Should you have questions regarding procedures or results, please do not hesitate to call. NET has been pleased to provide these analytical services for you.

This Quality Control report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

Approved by:

Mary Pearson
Project Manager



**NATIONAL
ENVIRONMENTAL
TESTING, INC.**

Bartlett Division
850 West Bartlett Rd.
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Rockford Division
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Rockford, IL 61109
Tel: (815) 874-2171
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(800) 807-2877

ANALYTICAL REPORT

Mr. Hank Mittelhauser
CLAYTON ENVIRONMENTAL
1240 Iroquois Drive
Suite 206
Naperville, IL 60563

08/31/1998
Sample No. : 489710
NET Job No.: 98.11031

Sample Description: Monitor Well #11
Artesia Station, NM

Date Taken: 08/19/1998
Time Taken: 16:45
IEPA Cert. No. 100221

Date Received: 08/21/1998
Time Received: 10:00
WDNR Cert. No. 999447130

| Parameter | Results | Units | Date of Analysis | Method PQL | Analyst | Batch No. Prep/Run | Analytical Method |
|------------------------------|---------|-------|------------------|------------|---------|--------------------|-------------------|
| UST VOLATILES 8260 - AQUEOUS | | | | | | | |
| Benzene | <1.0 | ug/L | 08/27/1998 | 1.0 | mjo | 2528 | SW 8260A |
| Ethyl Benzene | <1.0 | ug/L | 08/27/1998 | 1.0 | mjo | 2528 | SW 8260A |
| Toluene | <1.0 | ug/L | 08/27/1998 | 1.0 | mjo | 2528 | SW 8260A |
| Xylenes, Total | <1.0 | ug/L | 08/27/1998 | 1.0 | mjo | 2528 | SW 8260A |
| Surr: Toluene-d8 | 85.4 | R ‡ | 08/27/1998 | 88-110 | mjo | 2528 | SW 8260A |
| Surr: Bromofluorobenzene | 83.8 | R ‡ | 08/27/1998 | 86-115 | mjo | 2528 | SW 8260A |
| Surr: Dibromofluoromethane | 92.4 | ‡ | 08/27/1998 | 86-118 | mjo | 2528 | SW 8260A |

R : Surrogate recovery verified by re-analysis



NATIONAL ENVIRONMENTAL TESTING, INC.

Bartlett Division
850 West Bartlett Rd.
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Rockford, IL 61109
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(800) 807-2877

ANALYTICAL REPORT

Mr. Hank Mittelhauser
CLAYTON ENVIRONMENTAL
1240 Iroquois Drive
Suite 206
Naperville, IL 60563

08/31/1998
Sample No. : 489711
NET Job No.: 98.11031

Sample Description: Monitor Well #14
Artesia Station, NM

Date Taken: 08/19/1998
Time Taken: 17:45
IEPA Cert. No. 100221

Date Received: 08/21/1998
Time Received: 10:00
WDNR Cert. No. 999447130

| Parameter | Results | Units | Date of Analysis | Method PQL | Analyst | Batch No. Prep/Run | Analytical Method |
|------------------------------|---------|-------|------------------|------------|---------|--------------------|-------------------|
| UST VOLATILES 8260 - AQUEOUS | | | | | | | |
| Benzene | <1.0 | ug/L | 08/27/1998 | 1.0 | mjo | 2528 | SW 8260A |
| Ethyl Benzene | <1.0 | ug/L | 08/27/1998 | 1.0 | mjo | 2528 | SW 8260A |
| Toluene | <1.0 | ug/L | 08/27/1998 | 1.0 | mjo | 2528 | SW 8260A |
| Xylenes, Total | <1.0 | ug/L | 08/27/1998 | 1.0 | mjo | 2528 | SW 8260A |
| Surr: Toluene-d8 | 89.8 | † | 08/27/1998 | 88-110 | mjo | 2528 | SW 8260A |
| Surr: Bromofluorobenzene | 91.4 | † | 08/27/1998 | 86-115 | mjo | 2528 | SW 8260A |
| Surr: Dibromofluoromethane | 94.4 | † | 08/27/1998 | 86-118 | mjo | 2528 | SW 8260A |



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QUALITY CONTROL REPORT

CONTINUING CALIBRATION VERIFICATION

CLAYTON ENVIRONMENTAL
1240 Iroquois Drive
Suite 206
Naperville, IL 60563
Mr. Hank Mittelhauser

08/31/1998

NET Job Number: 98.11031

| Analyte | Run | CCV | Conc. Found | Percent Recovery |
|------------------------------|-----------------|---------------|----------------|---------------------|
| | Batch Number | True Conc. | | |
| UST VOLATILES 8260 - AQUEOUS | | | | |
| Benzene | 2528 | 50.0 | 52.9 | 105.8 |
| Ethyl Benzene | 2528 | 50.0 | 52.0 | 104.0 |
| Toluene | 2528 | 50.0 | 50.8 | 101.6 |
| Xylenes, Total | 2528 | 150 | 155 | 103.3 |



NATIONAL
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TESTING, INC.

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Bartlett, IL 60103
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Rockford Division
3548 35th Street
Rockford, IL 61109
Tel: (815) 874-2171
Fax: (815) 874-5622
(800) 807-2877

QUALITY CONTROL REPORT

BLANK ANALYSIS

CLAYTON ENVIRONMENTAL
1240 Iroquois Drive
Suite 206
Naperville, IL 60563
Mr. Hank Mittelhauser

08/31/1998

NET Job Number: 98.11031

| Analyte | Prep | Run | Blank | Reporting | Analytical |
|------------------------------|--------|--------|----------|-----------|-----------------|
| | Batch | Batch | Analysis | | |
| | Number | Number | Results | Limit | Method |
| UST VOLATILES 8260 - AQUEOUS | | | | | SW 8260A |
| Benzene | | 2528 | <1.0 | 1.0 | SW 8260A |
| Ethyl Benzene | | 2528 | <1.0 | 1.0 | SW 8260A |
| Toluene | | 2528 | <1.0 | 1.0 | SW 8260A |
| Xylenes, Total | | 2528 | <1.0 | 1.0 | SW 8260A |
| Surr: Dibromofluoromethane | | 2528 | 94.2 | † | 86-118 SW 8260A |
| Surr: Toluene-d8 | | 2528 | 105.0 | † | 88-110 SW 8260A |
| Surr: Bromofluorobenzene | | 2528 | 98.4 | † | 86-115 SW 8260A |

Advisory Control Limits for Blanks:

All compounds should be less than the Reporting Limit, except for phthalate esters, toluene, methylene chloride, acetone and chloroform should be less than 5 times the Reporting Limit.



NATIONAL ENVIRONMENTAL TESTING, INC.

Bartlett Division
850 West Bartlett Rd.
Bartlett, IL 60103
Tel: (630) 289-3100
Fax: (630) 289-5445

Rockford Division
3548 35th Street
Rockford, IL 61109
Tel: (815) 874-2171
Fax: (815) 874-5622
(800) 807-2877

QUALITY CONTROL REPORT

LABORATORY CONTROL STANDARD

CLAYTON ENVIRONMENTAL
1240 Iroquois Drive
Suite 206
Naperville, IL 60563
Mr. Hank Mittelhauser

08/31/1998

NET Job Number: 98.11031

| Analyte | Prep Batch Number | Run Batch Number | True Conc. | Conc. Found | LCS % Recovery |
|------------------------------|-------------------------|------------------------|---------------|----------------|-------------------|
| UST VOLATILES 8260 - AQUEOUS | | | | | |
| Benzene | | 2528 | 20.0 | 20.6 | 103.0 |
| Ethyl Benzene | | 2528 | 20.0 | 19.9 | 99.5 |
| Toluene | | 2528 | 20.0 | 19.7 | 98.5 |
| Xylenes, Total | | 2528 | 60.0 | 58.7 | 97.8 |
| Surr: Dibromofluoromethane | | 2528 | 50.0 | 46.9 | 93.8 |
| Surr: Toluene-d8 | | 2528 | 50.0 | 51.3 | 102.6 |
| Surr: Bromofluorobenzene | | 2528 | 50.0 | 48.0 | 96.0 |



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(800) 807-2877

QUALITY CONTROL REPORT

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

CLAYTON ENVIRONMENTAL
1240 Iroquois Drive
Suite 206
Naperville, IL 60563
Mr. Hank Mittelhauser

08/31/1998

NET Job Number: 98.11031

| Analyte | Prep | Run | Matrix | Sample | Spike | Percent | MSD | MSD | | Percent | MS/MSD | |
|-------------------------------|--------|--------|--------|--------|--------|---------|--------|--------|----------|----------|--------|------|
| | Batch | Batch | Spike | | | | | Spike | Recovery | | | RPD |
| | Number | Number | Result | Result | Amount | Units | Result | Amount | Units | Recovery | RPD | |
| JUST VOLATILES 8260 - AQUEOUS | | | | | | | | | | | | |
| Benzene | | 2528 | 18.1 | <1.0 | 20.0 | ug/L | 90.5 | 20.0 | 20.0 | ug/L | 100.0 | 9.9 |
| Ethyl Benzene | | 2528 | 18.3 | <1.0 | 20.0 | ug/L | 91.5 | 22.0 | 20.0 | ug/L | 110.0 | 18.3 |
| Toluene | | 2528 | 17.6 | <1.0 | 20.0 | ug/L | 88.0 | 20.3 | 20.0 | ug/L | 101.5 | 14.1 |
| Xylenes, Total | | 2528 | 38.5 | <1.0 | 60.0 | ug/L | 64.2 | 45.7 | 60.0 | ug/L | 76.2 | 17.1 |

NOTE: Matrix Spike Samples may not be samples from this job.

Advisory Control Limits for MS/MSDs:

For Inorganic Parameters and GC Volatiles, the spike recovery should be 75 - 125% if the spike added value was greater than or equal to one fourth of the sample result value. If not, the control limits are not established. The RPD for the MS/MSD pair should be less than 20.

MS = Matrix Spike

MSD = Matrix Spike Duplicate

RPD = Relative Percent Difference

RPD calculations are performed on the Percent Recovery calculated from the observed Matrix spike and Matrix Spike Duplicate results.

NET Midwest, Bartlett Division

KEY TO ABBREVIATIONS and METHOD REFERENCES

- < : Less than; When appearing in the results column indicates the analyte was not detected at or above the reported value.
- ug/L : Concentration in units of milligrams of analyte per liter of sample. Measurement used for aqueous samples. Can also be expressed as parts per million (ppm).
- ug/g : Concentration in units of micrograms of analyte per gram of sample. Measurement used for non-aqueous samples. Can also be expressed as parts per million (ppm) or mg/Kg.
- ug/L : Concentration in units of micrograms of analyte per liter of sample. Measurement used for aqueous samples. Can also be expressed as parts per billion (ppb).
- ug/Kg : Concentration in units of micrograms of analyte per kilogram of sample. Measurement used for non-aqueous samples. Can also be expressed as parts per billion (ppb).
- TCLP : These initials appearing in front of an analyte name indicate that the Toxicity Characteristic Leaching Procedure (TCLP) was performed for this test.
- Surr: : These initials are the abbreviation for surrogate. Surrogates are compounds that are chemically similar to the compounds of interest. They are part of the method quality control requirements.
- % : Percent; To convert ppm to %, divide the result by 10,000.
To convert % to ppm, multiply the result by 10,000.
- ICP : Indicates analysis was performed using Inductively Coupled Plasma Spectroscopy.
- AA : Indicates analysis was performed using Atomic Absorption Spectroscopy.
- GFAA : Indicates analysis was performed using Graphite Furnace Atomic Absorption Spectroscopy.
- PQL : Practical Quantitation Limit; the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

Method References

- (1) Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", USEPA SW-846, 3rd Edition, 1986.
- (2) ASTM "American Society for Testing Materials"
- (3) Methods 100 through 499: see "Methods for Chemical Analysis of Water and Wastes", USEPA, 600/4-79-020, Rev. 1983.
- (4) See "Standard Methods for the Examination of Water and Wastewater", 17th Ed, APHA, 1989.
- (5) Methods 600 through 625: see "Guidelines Establishing Test Procedures for the Analysis of Pollutants", USEPA Federal Register Vol. 49 No. 209, October 1984.
- (6) Methods 500 through 599: see "Methods for the Determination of Organic Compounds in Drinking Water," USEPA 600/4-88/039, Rev. 1988.
- (7) See "Methods for the Determination of Metals in Environmental Samples", Supplement I EPA-600/R-94/111, May 1994.

- (8) See "Standard Methods for the Examination of Water and Wastewater", 18th Ed., APHA, 1992.
- (9) Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", USEPA SW-846, 3rd Edition, 1986, Including Updates I and II.
- (10) This method is from the 2nd Edition of "Test Methods for Evaluating Solid Waste", USEPA SW-846. It has been dropped from the 3rd Edition, 1986.



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3548 35th Street
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Fax: (815) 874-5622
(800) 807-2877

Mr. Sam Senn
BASCOR ENVIRONMENTAL
800 W. Central
Suite 104N
Mt. Prospect, IL 60056

12/14/1998

NET Job Number: 98.15621

IEPA Cert. No.: 100221
WDNR Cert. No.: 999447130
A2LA Cert. No.: 0453-01

Enclosed is the Analytical and Quality Control reports for the following samples submitted to Bartlett Division of NET, Inc. for analysis.

Project Description: Artesian Station; Amoco Pipeline Co.

| Sample Number | Sample Description | Date Taken | Date Received |
|---------------|---------------------|------------|---------------|
| 505837 | Monitoring Well #11 | 12/05/1998 | 12/07/1998 |
| 505838 | Monitoring Well #14 | 12/05/1998 | 12/07/1998 |

Sample analysis in support of the project referenced above has been completed and results are presented on the following pages. These results apply only to the samples analyzed. Reproduction of this report only in whole is permitted. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Procedures used follow NET Standard Operating Procedures which reference the methods listed on your report. Should you have questions regarding procedures or results, please do not hesitate to call. NET has been pleased to provide these analytical services for you.

This Quality Control report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

Approved by:

Mary Pearson
Mary Pearson
Project Manager



NATIONAL
ENVIRONMENTAL
TESTING, INC.

Bartlett Division
850 West Bartlett Rd.
Bartlett, IL 60103
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Rockford Division
3548 35th Street
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Fax: (815) 874-5622
(800) 807-2877

ANALYTICAL REPORT

Mr. Sam Senn
BASCOR ENVIRONMENTAL
800 W. Central
Suite 104N
Mt. Prospect, IL 60056

12/14/1998

Sample No. : 505837

NET Job No.: 98.15621

Sample Description: Monitoring Well #11
Artesian Station; Amoco Pipeline Co.

Date Taken: 12/05/1998
Time Taken: 09:30

Date Received: 12/07/1998
Time Received: 11:00

| Analyte | Result | Flag | Units | Reporting Limit | Date Analyzed | Analyst Initials | Analytical Method |
|------------------------------|--------|------|-------|--------------------|------------------|---------------------|----------------------|
| UST VOLATILES 8260 - AQUEOUS | | | | | | | |
| Benzene | <1.0 | | ug/L | 1.0 | 12/13/1998 | p11 | SW 8260A |
| Ethyl Benzene | <1.0 | | ug/L | 1.0 | 12/13/1998 | p11 | SW 8260A |
| Toluene | <1.0 | | ug/L | 1.0 | 12/13/1998 | p11 | SW 8260A |
| Xylenes, Total | <1.0 | | ug/L | 1.0 | 12/13/1998 | p11 | SW 8260A |
| Surr: Toluene-d8 | 102.8 | | ‡ | 85-117 | 12/13/1998 | p11 | SW 8260A |
| Surr: Bromofluorobenzene | 105.8 | | ‡ | 80-116 | 12/13/1998 | p11 | SW 8260A |
| Surr: Dibromofluoromethane | 108.4 | | ‡ | 75-130 | 12/13/1998 | p11 | SW 8260A |



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ANALYTICAL REPORT

Mr. Sam Senn
BASCOR ENVIRONMENTAL
800 W. Central
Suite 104N
Mt. Prospect, IL 60056

12/14/1998
Sample No. : 505838
NET Job No.: 98.15621

Sample Description: Monitoring Well #14
Artesian Station; Amoco Pipeline Co.

Date Taken: 12/05/1998
Time Taken: 10:30

Date Received: 12/07/1998
Time Received: 11:00

| Analyte | Result | Flag | Units | Reporting Limit | Date Analyzed | Analyst Initials | Analytical Method |
|------------------------------|--------|------|-------|-----------------|---------------|------------------|-------------------|
| UST VOLATILES 8260 - AQUEOUS | | | | | | | |
| Benzene | <1.0 | | ug/L | 1.0 | 12/13/1998 | pll | SW 8260A |
| Ethyl Benzene | <1.0 | | ug/L | 1.0 | 12/13/1998 | pll | SW 8260A |
| Toluene | <1.0 | | ug/L | 1.0 | 12/13/1998 | pll | SW 8260A |
| Xylenes, Total | <1.0 | | ug/L | 1.0 | 12/13/1998 | pll | SW 8260A |
| Surr: Toluene-d8 | 101.6 | | % | 85-117 | 12/13/1998 | pll | SW 8260A |
| Surr: Bromofluorobenzene | 101.0 | | % | 80-116 | 12/13/1998 | pll | SW 8260A |
| Surr: Dibromofluoromethane | 115.6 | | % | 75-130 | 12/13/1998 | pll | SW 8260A |

KEY TO ABBREVIATIONS and METHOD REFERENCES

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- ug/L : Concentration in units of micrograms of analyte per liter of sample. Measurement used for aqueous samples. Can also be expressed as parts per billion (ppb).
- ug/Kg : Concentration in units of micrograms of analyte per kilogram of sample. Measurement used for non-aqueous samples. Can also be expressed as parts per billion (ppb).
- TCLP : These initials appearing in front of an analyte name indicate that the Toxicity Characteristic Leaching Procedure (TCLP) was performed for this test.
- Surr: : These initials are the abbreviation for surrogate. Surrogates are compounds that are chemically similar to the compounds of interest. They are part of the method quality control requirements.
- % : Percent; To convert ppm to %, divide the result by 10,000.
To convert % to ppm, multiply the result by 10,000.
- ICP : Indicates analysis was performed using Inductively Coupled Plasma Spectroscopy.
- AA : Indicates analysis was performed using Atomic Absorption Spectroscopy.
- GFAA : Indicates analysis was performed using Graphite Furnace Atomic Absorption Spectroscopy.
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- (4) See "Standard Methods for the Examination of Water and Wastewater", 17th Ed, APHA, 1989.
- (5) Methods 600 through 625: see "Guidelines Establishing Test Procedures for the Analysis of Pollutants", USEPA Federal Register Vol. 49 No. 209, October 1984.
- (6) Methods 500 through 599: see "Methods for the Determination of Organic Compounds in Drinking Water," USEPA 600/4-88/039, Rev. 1988.
- (7) See "Methods for the Determination of Metals in Environmental Samples", Supplement I EPA-600/R-94/111, May 1994.
- (8) See "Standard Methods for the Examination of Water and Wastewater", 18th Ed., APHA, 1992.
- (9) Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", USEPA SW-846, 3rd Edition, 1986, Including Updates I and II.
- (10) This method is from the 2nd Edition of "Test Methods for Evaluating Solid Waste", USEPA SW-846. It has been dropped from the 3rd Edition, 1986.

TestAmerica

INCORPORATED

Mr. Sam Senn
BASCOR ENVIRONMENTAL
800 W. Central
Suite 104N
Mt. Prospect, IL 60056

04/07/1999

NET Job Number: 99.03261

IEPA Cert. No.: 100221
WDNR Cert. No.: 999447130
A2LA Cert. No.: 0453-01

Enclosed is the Analytical and Quality Control reports for the following samples submitted to Bartlett Division of TestAmerica for analysis.

Project Description: Amoco Artesia Station

| Sample Number | Sample Description | Date Taken | Date Received |
|---------------|--------------------|------------|---------------|
| 520839 | Monitor Well #11 | 04/01/1999 | 04/05/1999 |
| 520840 | Monitor Well #14 | 04/01/1999 | 04/05/1999 |
| 520841 | Trip Blank | | 04/05/1999 |

Sample analysis in support of the project referenced above has been completed and results are presented on the following pages. These results apply only to the samples analyzed. Reproduction of this report only in whole is permitted. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Procedures used follow TestAmerica Standard Operating Procedures which reference the methods listed on your report. Should you have questions regarding procedures or results, please do not hesitate to call. TestAmerica has been pleased to provide these analytical services for you.

This Quality Control report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

Approved by:

Mary Pearson

Mary Pearson
Project Manager

ANALYTICAL REPORT

Mr. Sam Senn
 BASCOR ENVIRONMENTAL
 800 W. Central
 Suite 104N
 Mt. Prospect, IL 60056

04/07/1999
 Sample No. : 520839
 NET Job No.: 99.03261

Sample Description: Monitor Well #11
 Amoco Artesia Station

Date Taken: 04/01/1999
 Time Taken: 11:46

Date Received: 04/05/1999
 Time Received: 10:30

| Analyte | Result | Flag | Units | Reporting Limit | Date Analyzed | Analyst Initials | Analytical Method |
|------------------------------|--------|------|-------|--------------------|------------------|---------------------|----------------------|
| UST VOLATILES 8260 - AQUEOUS | | | | | | | |
| Benzene | <1.0 | | ug/L | 1.0 | 04/06/1999 | mjo | SW 8260A |
| Ethyl Benzene | <1.0 | | ug/L | 1.0 | 04/06/1999 | mjo | SW 8260A |
| Toluene | <1.0 | | ug/L | 1.0 | 04/06/1999 | mjo | SW 8260A |
| Xylenes, Total | <1.0 | | ug/L | 1.0 | 04/06/1999 | mjo | SW 8260A |
| Surr: Toluene-d8 | 91.6 | | ‰ | 85-117 | 04/06/1999 | mjo | SW 8260A |
| Surr: Bromofluorobenzene | 90.8 | | ‰ | 80-116 | 04/06/1999 | mjo | SW 8260A |
| Surr: Dibromofluoromethane | 107.4 | | ‰ | 75-130 | 04/06/1999 | mjo | SW 8260A |

ANALYTICAL REPORT

Mr. Sam Senn
 BASCOR ENVIRONMENTAL
 800 W. Central
 Suite 104N
 Mt. Prospect, IL 60056

04/07/1999
 Sample No. : 520840
 NET Job No.: 99.03261

Sample Description: Monitor Well #14
 Amoco Artesia Station

Date Taken: 04/01/1999
 Time Taken: 15:40

Date Received: 04/05/1999
 Time Received: 10:30

| Analyte | Result | Flag | Units | Reporting Limit | Date Analyzed | Analyst Initials | Analytical Method |
|------------------------------|--------|------|-------|-----------------|---------------|------------------|-------------------|
| UST VOLATILES 8260 - AQUEOUS | | | | | | | |
| Benzene | <1.0 | | ug/L | 1.0 | 04/06/1999 | mjo | SW 8260A |
| Ethyl Benzene | <1.0 | | ug/L | 1.0 | 04/06/1999 | mjo | SW 8260A |
| Toluene | <1.0 | | ug/L | 1.0 | 04/06/1999 | mjo | SW 8260A |
| Xylenes, Total | <1.0 | | ug/L | 1.0 | 04/06/1999 | mjo | SW 8260A |
| Surr: Toluene-d8 | 93.4 | | % | 85-117 | 04/06/1999 | mjo | SW 8260A |
| Surr: Bromofluorobenzene | 96.8 | | % | 80-116 | 04/06/1999 | mjo | SW 8260A |
| Surr: Dibromofluoromethane | 101.4 | | % | 75-130 | 04/06/1999 | mjo | SW 8260A |

ANALYTICAL REPORT

Mr. Sam Senn
 BASCOR ENVIRONMENTAL
 800 W. Central
 Suite 104N
 Mt. Prospect, IL 60056

04/07/1999

Sample No. : 520841

NET Job No.: 99.03261

Sample Description: Trip Blank
 Amoco Artesia Station

Date Taken:
 Time Taken:

Date Received: 04/05/1999
 Time Received: 10:30

| Analyte | Result | Flag | Units | Reporting Limit | Date Analyzed | Analyst Initials | Analytical Method |
|------------------------------|--------|------|-------|--------------------|------------------|---------------------|----------------------|
| UST VOLATILES 8260 - AQUEOUS | | | | | | | |
| Benzene | <1.0 | | ug/L | 1.0 | 04/06/1999 | mjo | SW 8260A |
| Ethyl Benzene | <1.0 | | ug/L | 1.0 | 04/06/1999 | mjo | SW 8260A |
| Toluene | <1.0 | | ug/L | 1.0 | 04/06/1999 | mjo | SW 8260A |
| Xylenes, Total | <1.0 | | ug/L | 1.0 | 04/06/1999 | mjo | SW 8260A |
| Surr: Toluene-d8 | 98.2 | | ‡ | 85-117 | 04/06/1999 | mjo | SW 8260A |
| Surr: Bromofluorobenzene | 106.0 | | ‡ | 80-116 | 04/06/1999 | mjo | SW 8260A |
| Surr: Dibromofluoromethane | 111.2 | | ‡ | 75-130 | 04/06/1999 | mjo | SW 8260A |

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- Surr: : These initials are the abbreviation for surrogate. Surrogates are compounds that are chemically similar to the compounds of interest. They are part of the method quality control requirements.
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To convert % to ppm, multiply the result by 10,000.
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- (6) Methods 500 through 599: see "Methods for the Determination of Organic Compounds in Drinking Water," USEPA 600/4-88/039, Rev. 1988.
- (7) See "Methods for the Determination of Metals in Environmental Samples", Supplement I EPA-600/R-94/111, May 1994.
- (8) See "Standard Methods for the Examination of Water and Wastewater", 18th Ed., APHA, 1992.
- (9) Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", USEPA SW-846, 3rd Edition, 1986, Including Updates I and II.
- (10) This method is from the 2nd Edition of "Test Methods for Evaluating Solid Waste", USEPA SW-846. It has been dropped from the 3rd Edition, 1986.

West America

INCORPORATED

CHAIN OF CUSTODY RECORD

COMPANY: Amoco Pipeline Company
 ADDRESS: C/O BASCOB ENVIRONMENTAL INC.
 PHONE: 847-577-1980 FAX: 847-577-1980
 PROJECT NAME/LOCATION: Amoco Artesia Station
 PROJECT NUMBER: _____
 PROJECT MANAGER: MR. Sam Senn

REPORT TO: MR. Sam Senn
 INVOICE TO: BASCOB
 P.O. NO.: _____
 QUOTE NO.: _____

SAMPLED BY: Clayton M. Broun
 PRINT NAME: _____
 SIGNATURE: [Signature]
 SIGNATURE: _____

| DATE | TIME | SAMPLE ID/DESCRIPTION | MATRIX | GRAB | COMP | HCl | NaOH | HNO ₃ | H ₂ SO ₄ | OTHER | # and Type of Containers | ANALYSES | | COMMENTS | |
|---------|-------|-----------------------|--------|------|------|-----|------|------------------|--------------------------------|-------|--------------------------|----------|----|----------|--|
| | | | | | | | | | | | | Yes | No | | |
| 4/19/99 | 11:40 | Monitor well #11 | Box | X | | X | | | | | | | | | Any Questions Please Call MR. Sam Senn @ BASCOB. 847-577-1980 |
| 4/19/99 | 11:40 | Monitor well #14 | Box | X | | X | | | | | | | | | |
| | | TRIP BLANK | Box | X | | X | | | | | | | | | |

CONDITION OF SAMPLE: BOTTLES INTACT? YES/NO YES FIELD FILTERED? YES/NO NO
 COC SEALS PRESENT AND INTACT? YES/NO YES VOLATILES FREE OF HEADSPACE? YES/NO NO
 SAMPLE REMAINDER DISPOSAL: RETURN SAMPLE REMAINDER TO CLIENT VIA _____ DATE _____ TIME _____
 REQUEST LAB TO DISPOSE OF ALL SAMPLE REMAINDERS _____ DATE 4/2/99
 TEMPERATURE UPON RECEIPT: 77°C Bottles supplied by LAB? (YES) NO NO
 RELINQUISHED BY: [Signature] RECEIVED BY: [Signature]
 DATE: 4/2/99 TIME: 10:30
 RECEIVED FOR LAB BY: U. Bankson
 REMARKS: Please send Resu 1/3 ASAP To Sam Senn @ BASCOB
 METHOD OF SHIPMENT: FEDEX

TestAmerica

INCORPORATED

Mr. Sam Senn
BASCOR ENVIRONMENTAL
800 W. Central
Suite 104N
Mt. Prospect, IL 60056

06/14/1999

NET Job Number: 99.05745

IEPA Cert. No.: 100221

WDNR Cert. No.: 999447130

A2LA Cert. No.: 0453-01

Enclosed is the Analytical and Quality Control reports for the following samples submitted to Bartlett Division of TestAmerica for analysis.

Project Description: Amoco Artesian Station

| Sample Number | Sample Description | Date Taken | Date Received |
|---------------|--------------------|------------|---------------|
| 529933 | Monitor Well #11 | 06/02/1999 | 06/03/1999 |
| 529934 | Monitor Well #14 | 06/02/1999 | 06/03/1999 |

Sample analysis in support of the project referenced above has been completed and results are presented on the following pages. These results apply only to the samples analyzed. Reproduction of this report only in whole is permitted. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Procedures used follow TestAmerica Standard Operating Procedures which reference the methods listed on your report. Should you have questions regarding procedures or results, please do not hesitate to call. TestAmerica has been pleased to provide these analytical services for you.

This Quality Control report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

Approved by:

Mary Pearson

Mary Pearson
Project Manager

ANALYTICAL REPORT

Mr. Sam Senn
 BASCOR ENVIRONMENTAL
 800 W. Central
 Suite 104N
 Mt. Prospect, IL 60056

06/14/1999

Sample No. : 529933

Job No.: 99.05745

Sample Description: Monitor Well #11
 Amoco Artesian Station

Date Taken: 06/02/1999
 Time Taken: 14:13

Date Received: 06/03/1999
 Time Received: 10:45

| Analyte | Result | Flag | Units | Reporting Limit | Date Analyzed | Analyst Initials | Analytical Method |
|------------------------------|--------|------|-------|--------------------|------------------|---------------------|----------------------|
| UST VOLATILES 8260 - AQUEOUS | | | | | | | |
| Benzene | <1.0 | | ug/L | 1.0 | 06/12/1999 | mjo | SW 8260A |
| Ethyl Benzene | <1.0 | | ug/L | 1.0 | 06/12/1999 | mjo | SW 8260A |
| Toluene | <1.0 | | ug/L | 1.0 | 06/12/1999 | mjo | SW 8260A |
| Xylenes, Total | <1.0 | | ug/L | 1.0 | 06/12/1999 | mjo | SW 8260A |
| Surr: Toluene-d8 | 86.0 | | ‡ | 85-117 | 06/12/1999 | mjo | SW 8260A |
| Surr: Bromofluorobenzene | 72.2 | R | ‡ | 80-116 | 06/12/1999 | mjo | SW 8260A |
| Surr: Dibromofluoromethane | 107.2 | | ‡ | 75-130 | 06/12/1999 | mjo | SW 8260A |

R : Surrogate recovery verified by re-analysis.

ANALYTICAL REPORT

Mr. Sam Senn
 BASCOR ENVIRONMENTAL
 800 W. Central
 Suite 104N
 Mt. Prospect, IL 60056

06/14/1999
 Sample No. : 529934
 Job No.: 99.05745

Sample Description: Monitor Well #14
 Amoco Artesian Station

Date Taken: 06/02/1999
 Time Taken: 15:31

Date Received: 06/03/1999
 Time Received: 10:45

| Analyte | Result | Flag | Units | Reporting Limit | Date Analyzed | Analyst Initials | Analytical Method |
|------------------------------|--------|------|-------|-----------------|---------------|------------------|-------------------|
| UST VOLATILES 8260 - AQUEOUS | | | | | | | |
| Benzene | <1.0 | | ug/L | 1.0 | 06/12/1999 | mjo | SW 8260A |
| Ethyl Benzene | <1.0 | | ug/L | 1.0 | 06/12/1999 | mjo | SW 8260A |
| Toluene | <1.0 | | ug/L | 1.0 | 06/12/1999 | mjo | SW 8260A |
| Xylenes, Total | 2.2 | | ug/L | 1.0 | 06/12/1999 | mjo | SW 8260A |
| Surr: Toluene-d8 | 98.2 | ‡ | | 85-117 | 06/12/1999 | mjo | SW 8260A |
| Surr: Bromofluorobenzene | 86.0 | ‡ | | 80-116 | 06/12/1999 | mjo | SW 8260A |
| Surr: Dibromofluoromethane | 115.8 | ‡ | | 75-130 | 06/12/1999 | mjo | SW 8260A |

TestAmerica

TestAmerica Bartlett Division
KEY TO ABBREVIATIONS AND METHOD REFERENCES
INCORPORATED

- < : Less than; When appearing in the results column indicates the analyte was not detected at or above the reported value.
- mg/L : Concentration in units of milligrams of analyte per liter of sample. Measurement used for aqueous samples. Can also be expressed as parts per million (ppm).
- ug/g : Concentration in units of micrograms of analyte per gram of sample. Measurement used for non-aqueous samples. Can also be expressed as parts per million (ppm) or mg/Kg.
- ug/L : Concentration in units of micrograms of analyte per liter of sample. Measurement used for aqueous samples. Can also be expressed as parts per billion (ppb).
- ug/Kg : Concentration in units of micrograms of analyte per kilogram of sample. Measurement used for non-aqueous samples. Can also be expressed as parts per billion (ppb).
- TCLP : These initials appearing in front of an analyte name indicate that the Toxicity Characteristic Leaching Procedure (TCLP) was performed for this test.
- Surr: : These initials are the abbreviation for surrogate. Surrogates are compounds that are chemically similar to the compounds of interest. They are part of the method quality control requirements.
- % : Percent; To convert ppm to %, divide the result by 10,000.
To convert % to ppm, multiply the result by 10,000.
- ICP : Indicates analysis was performed using Inductively Coupled Plasma Spectroscopy.
- AA : Indicates analysis was performed using Atomic Absorption Spectroscopy.
- GFAA : Indicates analysis was performed using Graphite Furnace Atomic Absorption Spectroscopy.
- PQL : Practical Quantitation Limit; the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

Method References

- (1) Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", USEPA SW-846, 3rd Edition, 1986.
- (2) ASTM "American Society for Testing Materials"
- (3) Methods 100 through 499: see "Methods for Chemical Analysis of Water and Wastes", USEPA, 600/4-79-020, Rev. 1983.
- (4) See "Standard Methods for the Examination of Water and Wastewater", 17th Ed, APHA, 1989.
- (5) Methods 600 through 625: see "Guidelines Establishing Test Procedures for the Analysis of Pollutants", USEPA Federal Register Vol. 49 No. 209, October 1984.
- (6) Methods 500 through 599: see "Methods for the Determination of Organic Compounds in Drinking Water," USEPA 600/4-88/039, Rev. 1988.
- (7) See "Methods for the Determination of Metals in Environmental Samples", Supplement I EPA-600/R-94/111, May 1994.
- (8) See "Standard Methods for the Examination of Water and Wastewater", 18th Ed., APHA, 1992.
- (9) Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", USEPA SW-846, 3rd Edition, 1986, Including Updates I and II.
- (10) This method is from the 2nd Edition of "Test Methods for Evaluating Solid Waste", USEPA SW-846. It has been dropped from the 3rd Edition, 1986.

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- Atlanta, GA (B) Brighton, CO (D) Charleston, SC (F) Columbia, SC (H) Davenport, IA (J) Indianapolis, IN (L) Macon, GA (N) Orlando, FL (P) Watertown, WI (R)
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Client: **BASCOE Environmental Station** Project No.: **Amoco Artesian Station**

Report Address: **800 West Central Road, Mt. Prospect, IL 60056-2384** Invoice Address: **BASCOE**

Attn: **MR. SAM SENN** Attn: **SAM SENN**

Phone No.: **847-577-1988** Sampled By: **CID BARRERA**

Fax No.: _____ P.O. No.: _____

Quote No.: _____ State Samples Collected: **N.M.**

TURNAROUND TIME _____ Date Needed: _____

Standard Rush (surcharges may apply)

| Sample ID | Date | Time | Comp (C) Grab (G) | Matrix | Lab Use | # and type of containers | | | | REMARKS | |
|------------------|--------|-------|-------------------|------------------|---------|--------------------------|--------------------|--------------------------------|-------|---------|-------------|
| | | | | | | HCl | NH ₄ OH | H ₂ SO ₄ | Other | | |
| MONITOR Well #11 | 6/2/99 | 14:13 | G | H ₂ O | | X | | | | | 340ml VOA'S |
| MONITOR Well #14 | 6/2/99 | 15:31 | G | H ₂ O | | X | | | | | " " |
| TRIP BLANK | | | | | | | | | | | |

QC Deliverables: None Level 2 - Batch QC Level 3 Level 1 Other

COMMENTS: **Any Questions Please Call Sam Senn, BASCOE Environmental (847) 577-1989, 800 West Central Road, Suite 104A Mt. Prospect, IL 60058-2384**

| Relinquished By: | Date: | Time: | Received By: | Date: | Time: |
|--------------------|--------|-------|--------------|--------|-------|
| <i>[Signature]</i> | 6/2/99 | 17:00 | DOWNSON | 6/8/99 | 1045 |
| Relinquished By: | Date: | Time: | Received By: | Date: | Time: |
| Relinquished By: | Date: | Time: | Received By: | Date: | Time: |

Custody Seal: Yes No N/A

Bottles Supplied by TA: Yes No

BTEX 8021

20C Wet Ice
Reg Lab Temp