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**2009 Annual Groundwater
Monitoring Report**

Indian Basin Remediation Project
Eddy County, New Mexico

P R E P A R E D F O R

Marathon Oil Company



Infrastructure, environment, buildings

Transmittal Letter

To:

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From:

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Date:

July 30, 2009

Subject:

2009 Annual Groundwater Monitoring Report
Indian Basin Remediation Project
Eddy County, New Mexico

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**2009 Annual Groundwater
Monitoring Report**

Indian Basin Remediation Project
Eddy County, New Mexico

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29 July 2009

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Executive Summary

The Indian Basin Gas Plant (site) is located approximately 20 miles northwest of Carlsbad in Eddy County, New Mexico. Remediation efforts at the site, collectively known as the Indian Basin Remediation Project (IBRP), were initiated in April 1991 to recover free-phase petroleum hydrocarbons related to the release of a liquid by-product of natural gas production known as "condensate". The subsurface at the site includes two distinct geologic zones referred to as the "Shallow Zone" and the "Lower Queen". Both of these zones contain saturated and unsaturated strata. Prior to March 2003, there were a total of 150 wells and two shallow sumps present at the site related to the IBRP. However, with New Mexico Oil Conservation District (NMOCD) approval, thirty-nine Shallow Zone wells were plugged and abandoned in March 2003, reducing the well total to 111 wells and two sumps. The remaining wells and two sumps were used for a combination of groundwater monitoring, groundwater and condensate recovery, treated groundwater infiltration and condensate vapor extraction.

In May 2008, a report titled *Evaluation of Natural Attenuation, Indian Basin Remediation Project, Eddy County, New Mexico* was submitted to the NMOCD. The report described the natural attenuation processes occurring at the site and recommended closure of the IBRP. A letter with the reference title *Proposed Indian Basin Remediation Project Well Plugging Program* was subsequently submitted to the NMOCD in February 2009. The NMOCD responded to the May 2008 report and February 2009 plugging program letter in correspondence dated February 20, 2009. In the February 20, 2009 correspondence, the NMOCD stated that the report and well plugging request were substantially acceptable, and conditionally approved the discontinuance of active remediation at the site. However, the NMOCD required at least annual groundwater monitoring for BTEX, TDS and chloride for a total of 15 wells, and semi-annual gauging of depth to groundwater and non-aqueous phase liquid thickness. In addition, an annual groundwater monitoring report must be submitted to the NMOCD.

In March and April 2009, a total of 95 wells (including the two shallow sumps) were plugged and abandoned. Three water supply wells (SW-1, SW-2 and SW-3) originally included in the proposed plugging program were not plugged, because they are needed to supply water for site operations. A report documenting the well plugging activities was submitted to the NMOCD in June 2009. The NMOCD approved the plugging report through email correspondence dated June 17, 2009.

The 2009 annual groundwater monitoring event was conducted from May 25-29, 2009, and included the gauging of depth to groundwater and non-aqueous phase liquid thickness of 15 monitoring wells (seven in the Shallow Zone and eight in the Lower

Queen) and sampling of monitoring wells for BTEX, TDS and chloride. This report documents the results from the May 2009 annual groundwater monitoring event and provides historical groundwater monitoring documentation.

Liquid-level measurements obtained from each well in May 2009 and the surveyed well elevations were used to calculate groundwater elevations, with density corrections to the water level where condensate was present. The resulting elevation data were used to generate groundwater piezometric contour maps for the Shallow Zone and Lower Queen aquifers. Review of these maps and the elevation data indicate Shallow Zone and Lower Queen groundwater flow was generally consistent with patterns observed in previous years. Flow in the Shallow Zone is to the southeast at an approximate gradient of 0.007 ft/ft, and flow in the Lower Queen is generally to the northwest at an approximate gradient of 0.0003 ft/ft.

In May 2009, groundwater samples were collected from four Shallow Zone monitoring wells (MW-14, MW-45, MW-46 and MW-49) and five Lower Queen monitoring wells (MW-66, MW-70, MW-88, MW-111 and MW-127). Samples were not collected from Shallow Zone monitoring wells MW-77 and MW-106, because they were dry. In addition, the Shallow Zone monitoring well MW-126 and the Lower Queen monitoring wells MW-58, MW-81 and MW-113 were not sampled, because they contained condensate. The analytical results indicate that BTEX concentrations in the sampled Shallow Zone monitoring wells were below NMOCD regulatory limits with the exception of benzene in MW-49. The benzene concentration of 37 ug/L in MW-49 was within historical levels. In addition, BTEX concentrations in all five of the sampled Lower Queen wells were below NMOCD regulatory limits. In general, TDS and chloride concentrations in the sampled Shallow Zone monitoring wells were near to or below historical levels, and the TDS and chloride concentrations in the sampled Lower Queen wells were all below NMOCD regulatory limits.

Groundwater monitoring at the site will continue and be conducted according to the requirements outlined in the February 20, 2009 NMOCD letter. Based on the current program schedule, the annual groundwater monitoring event will be conducted in the spring (April / May) and the semi-annual groundwater gauging event will be conducted in the fall (October / November). Annual reports will be prepared at the conclusion of each annual groundwater monitoring event and will be submitted to the NMOCD. The current purging and sampling techniques utilize low-flow procedures that were approved and implemented in 2003.

1. Introduction

ARCADIS has prepared this Annual Groundwater Monitoring report on behalf of Marathon Oil Company (Marathon). This report presents the results of the annual groundwater monitoring event conducted in May 2009, and includes historical groundwater monitoring data from the Indian Basin Remediation Project (IBRP) at the Indian Basin Gas Plant located in Eddy County, New Mexico. This report has been prepared in accordance with the groundwater monitoring requirements outlined in correspondence by the New Mexico Energy, Minerals, and Natural Resources Department, Oil Conservation Division (NMOCD) to Marathon dated February 20, 2009.

The following section presents a brief summary of the project background. The remaining sections discuss results from the May 2009 annual groundwater monitoring event and the continuing groundwater monitoring program.

2. Background

The Indian Basin Gas Plant (site) and IBRP are located approximately 20 miles northwest of Carlsbad, New Mexico, as shown on Figure 1. The site is situated in Township 21 South, Eddy County, and occupies portions of Range 23 East (Sections 13, 23, 24, 25, and 26) and Range 24 East (Sections 19 and 30). Remediation efforts at the site were initiated in April 1991 and were designed to remove separate-phase petroleum hydrocarbons present in the subsurface, primarily condensate, the liquid by-product of natural gas production.

The geology underlying the site is comprised of two distinct zones, both with saturated and unsaturated strata. The geologic units are referred to as the Shallow Zone and the Lower Queen. Prior to March 2003, there were a total of 150 wells (78 Shallow Zone and 72 Lower Queen) and two shallow sumps present at the site related to the IBRP. However, with New Mexico Oil Conservation District (NMOCD) approval, thirty-nine Shallow Zone wells were plugged and abandoned in March 2003, reducing the well total to 111 wells and two shallow sumps. The remaining wells and two sumps were used for a combination of groundwater monitoring, groundwater and condensate recovery, treated groundwater infiltration and condensate vapor extraction.

In May 2008, a report titled *Evaluation of Natural Attenuation, Indian Basin Remediation Project, Eddy County, New Mexico* was submitted to the NMOCD. The report described the natural attenuation processes occurring at the site and recommended closure of the IBRP. In addition, a letter with the reference title *Proposed Indian Basin Remediation Project Well Plugging Program* was submitted to the NMOCD in February

2009. The NMOCD responded to the May 2008 report and February 2009 plugging program letter in correspondence dated February 20, 2009. In the February 20, 2009 correspondence, the NMOCD stated that the report and well plugging request were substantially acceptable, and conditionally approved the discontinuance of active remediation at the site. However, the NMOCD required at least annual groundwater monitoring for BTEX, TDS and chloride for a total of 15 wells, and semi-annual gauging of depth to groundwater and non-aqueous phase liquid thickness. In addition, the NMOCD required that an annual groundwater monitoring report must be submitted. A copy of the NMOCD correspondence is included in Appendix D.

In March and April 2009, a total of 95 wells (including the two shallow sumps) were plugged and abandoned. Three water supply wells (SW-1, SW-2 and SW-3) originally included in the proposed plugging program were not plugged, because they are needed to supply water for site operations. A report documenting the well plugging activities was submitted to the NMOCD in June 2009. The NMOCD approved the plugging report through email correspondence dated June 17, 2009 (Appendix D).

A summary of the completion details for the site wells is provided in Table 1A and 1B. Table 2 summarizes the 15 wells remaining in the groundwater monitoring program. Figure 2 depicts the site layout, including the locations of remaining Shallow Zone and Lower Queen wells. Additional details regarding local and regional geology and hydrogeology are presented in the report titled *Comprehensive Site Characterization Report for the IBRP*, submitted to the OCD on behalf of Marathon by IT Corporation in December 1998.

3. Groundwater and Condensate Gauging

The annual groundwater gauging and sampling event was conducted in May 2009. The gauging event consisted of collecting liquid-level measurements from the wells listed in Table 2 for both the Shallow Zone and Lower Queen. The results of the May 2009 gauging event as well as precipitation recharge (rainfall) are discussed in the following sections. A summary of the May 2009 groundwater gauging results is provided in Table 3. Historical groundwater gauging data for the site is presented in Appendix A.

3.1 Shallow Zone Aquifer

A total of seven monitoring wells completed in the Shallow Zone were gauged during the May 2009 gauging event. The liquid-level measurements and the top of casing elevations for the wells were then used to calculate the groundwater elevation at each well. Density corrections to the water level were made as required where condensate was present.

As the data in Table 3 indicate, monitoring wells MW-77 and MW-106 did not contain groundwater during the May 2009 gauging event. According to the data in Appendix A, the only other time monitoring well MW-77 was reported to be dry was in February 1997. Monitoring well MW-106 has never been dry in its history. Overall, groundwater levels (including density corrections for condensate if present) were near to or below historical levels.

During the May 2009 gauging event, measurable condensate was detected in Shallow Zone monitoring well MW-126. The condensate thickness measured in MW-126 was 0.05 feet. Historically, the condensate thickness in MW-126 has ranged between 0 and 3.96 feet.

A groundwater elevation contour map was prepared based on the May 2009 groundwater elevation measurements (Figures 3). As shown on Figure 3, the observed groundwater flow direction in the Shallow Zone is to the southeast at an approximate gradient of 0.007 ft/ft. The flow direction and gradient are generally consistent with historical patterns.

3.2 Lower Queen Aquifer

A total of eight monitoring wells completed in the Lower Queen were gauged during the May 2009 gauging event. The liquid-level measurements and the top of casing elevations for the wells were then used to calculate the groundwater elevation at each well. Density corrections to the water level were made as required where condensate was present.

During the May 2009 gauging event, condensate was observed in Lower Queen monitoring wells MW-58 MW-81 and MW-113. Approximately 5.26 feet of condensate was measured in MW-58. Condensate has been frequently observed in MW-58 ranging between 0 and 0.67 feet. The 5.26 feet of condensate measured in May 2009 is the highest recorded level. The condensate thickness measured in MW-81 was 0.10 feet. Historically, the condensate thickness in MW-81 has ranged between 0 and 12.08 feet. A trace amount of condensate was measured in MW-113. Historically, MW-113 has contained between 0 and 0.88 feet of condensate.

A groundwater elevation contour map was prepared based on the May 2009 groundwater elevation measurements (Figure 5). As shown on Figure 5, the observed groundwater flow direction in the Lower Queen is generally to the northwest at an approximate gradient of 0.0003 ft/ft. The flow direction and gradient are generally consistent with historical patterns.

3.3 Precipitation Recharge

Table 4 summarizes monthly rainfall for the area during 2008 along with historical precipitation since 1994. From 1994 through 2006, the precipitation records are from the Indian Basin Gas Plant. For 2007 and 2008, the precipitation records are from the Cavern City Air Terminal in Carlsbad. The site has historically received the highest amounts of precipitation between the months of June and October. Precipitation generally followed a similar trend during the 2008 calendar year. The average annual rainfall measured over the past five years is approximately 16.80 inches. During 2008, data from the Carlsbad gauge indicate that the highest amount of precipitation was received in July (2.52 inches) with a total of 9.39 inches for the year. The low rainfall total for 2008 appears to have resulted in significant decreases in the Shallow Zone water levels compared with historical data. In fact, all seven of the May 2009 water levels in the Shallow Zone monitoring wells were near to or below historical low levels based on measurement data in Appendix A. The low rainfall total for 2008 also appears to have contributed to significantly lower water levels in six of the eight Lower Queen monitoring wells measured in May 2009. The water levels in Lower Queen monitoring wells MW-58 and MW-81 were near their average levels based on historical data while water levels in monitoring wells MW-66, MW-70, MW-88, MW-111, MW-113 and MW-127 were near to or below historical levels based on measurement data in Appendix A.

4. Groundwater Sampling and Analysis

As a condition of the discontinuance of active remediation at the site, the NMOCD required at least annual groundwater monitoring for BTEX, TDS and chloride for seven Shallow Zone and eight Lower Queen monitoring wells. ARCADIS personnel conducted the 2009 annual groundwater sampling event at the site in May 2009. All samples were collected using low-flow purging and sampling techniques. Trip blanks were collected for this event and submitted for analysis of BTEX. Table 5 summarizes the BTEX, chloride and TDS analytical results for May 2009. Summaries of historical BTEX, PAHs, WQCC metals and general chemistry analytical data are presented in Appendix B. The complete laboratory analytical reports for the annual groundwater sampling event in 2006 are presented on a CD-Rom (Appendix C).

The groundwater monitoring analytical results for both the Shallow Zone and Lower Queen are discussed in the following sections.

4.1 Shallow Zone Aquifer

4.1.1 BTEX Analysis

Groundwater samples were collected from four Shallow Zone monitoring wells (MW-14, MW-45, MW-46 and MW-49) in May 2009. Samples were not collected from MW-77 and MW-106, because the wells were dry. In addition, samples were not collected from MW-126, because it contained condensate. It is important to note that a peristaltic pump was required to purge and sample MW-45. The peristaltic pump was necessary, because the well had a bend in the casing that prevented access for sample collection by a bladder pump or bailer. The results of the BTEX laboratory analysis of the four Shallow Zone groundwater samples is summarized as follows:

- Monitoring well MW-49 was the only well containing benzene above the NMOCD regulatory limits at 37 ug/L. The benzene concentration in MW-49 is consistent with historical data;
- Benzene was detected in MW-14 at 1.1 ug/L, but the concentration was below the NMOCD regulatory limit.
- Toluene was not detected either above the laboratory detection limits or the NMOCD regulatory limits;
- Ethylbenzene was only detected in MW-14 at 1.1 ug/L, but the concentration was well below the NMOCD regulatory limit; and
- Total xylene was detected at concentrations ranging from 1.1 ug/L (MW-46) to 17 ug/L (MW-14), but the concentrations were well below the NMOCD regulatory limit.

Figure 4 illustrates the distribution of dissolved BTEX compounds in the Shallow Zone aquifer in May 2009. As indicated by the historical data in Appendix B, BTEX concentrations in this water-bearing zone have generally remained stable or declined over time. It is important to note that benzene concentrations in MW-14 have continuously declined since condensate was observed in April 2004 to the present dissolved concentration of 1.1 ug/l, which is below the NMOCD regulatory limit.

4.1.2 Wet Chemistry Analysis

In addition to BTEX analysis in May 2009, groundwater samples from the Shallow Zone monitoring wells MW-45 and MW-49 were analyzed for wet chemistry (TDS and chloride). Monitoring wells MW-14 and MW-46 did not contain an adequate volume of

water to collect samples for TDS and chloride. The results of the wet chemistry laboratory analysis of the Shallow Zone monitoring wells in May 2009 are summarized as follows:

- TDS concentrations were detected above the NMOCD standard in both MW-45 and MW-49. The TDS concentration in MW-45 (2,540 mg/L) was the lowest level recorded in the historical database (Appendix B). The TDS concentration in MW-49 (3,090 mg/L) was at the low end of the TDS values reported historically (ranging from 2,900 to 3,960 mg/L); and
- Chloride concentrations were detected at 174 mg/L in MW-45 and 370 mg/L in MW-49. The 174 mg/L chloride concentration in MW-45 was below the NMOCD regulatory limit, and was the lowest chloride concentration in the historical database (Appendix B). The chloride concentration in MW-45 was above the NMOCD regulatory limit, but was similar to historical levels.

A summary of the wet chemistry laboratory analysis is provided in Table 5. Copies of the analytical laboratory reports are inserted in Appendix C. Figure 4 shows TDS and chlorides in sampled wells.

4.2 Lower Queen Aquifer

4.2.1 BTEX Analysis

Groundwater samples were collected from five Lower Queen monitoring wells (MW-66, MW-70, MW-88, MW-111 and MW-127). Samples were not collected from MW-58, MW-81 and MW-113, because they contained condensate. The results of the BTEX laboratory analysis of the five Lower Queen groundwater samples is summarized as follows:

- Benzene was not detected in any of the Lower Queen samples;
- Toluene was not detected in any of the Lower Queen samples;
- Ethylbenzene was not detected in any of the Lower Queen samples; and
- Total xylene was detected at a concentration of 1.4 ug/L in MW-127, but the concentration was well below the NMOCD regulatory limit. No other Lower Queen monitoring wells contained total xylene above laboratory detection limits.

Figure 6 illustrates the distribution of dissolved BTEX compounds in the Lower Queen in May 2009. Overall, the BTEX concentrations in the Lower Queen were similar to historical data (Appendix B). It is important to note that MW-127 was sampled only one

other time for BTEX on December 28, 1999. The data from the December 1999 event indicates that MW-127 contained 190 ug/L benzene, 7.1 ug/L toluene, 38 ug/L ethylbenzene and 16 ug/L total xylenes. Results from the May 2009 sampling event indicate that the BTEX compounds observed in 1999 have attenuated, since only total xylene was detected above the laboratory detection limit.

4.2.2 Wet Chemistry Analysis

In addition to BTEX analysis in May 2009, groundwater samples were collected from the Lower Queen monitoring wells MW-66, MW-70, MW-88, MW-111 and MW-127 and analyzed for wet chemistry (TDS and chlorides). The results of the wet chemistry laboratory analysis of the Lower Queen monitoring wells in May 2009 are summarized as follows:

- TDS concentrations were below the New Mexico standard of 1,000 mg/L in all five sampled wells in the Lower Queen. TDS concentrations ranged from 508 mg/L in MW-70 to 937 mg/L in MW-88; and
- Chloride concentrations were below the New Mexico standard of 250 mg/L in all five sampled wells in the Lower Queen. The chloride concentrations ranged from 8.29 mg/L in MW-66 to 77.1 mg/L in MW-127.

A summary of the wet chemistry laboratory analysis is provided in Table 3. Copies of the analytical laboratory reports are included in Appendix C. Figure 6 shows TDS and chlorides in sampled wells.

5. Summary and Action Plan

5.1 Summary of Performed Activities

Since the NMOCD conditionally approved the discontinuance of active remediation at the site through correspondence dated February 20, 2009, Marathon has performed the following activities:

- A total of 95 wells (including two shallow sumps) were plugged and abandoned in March and April 2009; and
- The 2009 annual groundwater monitoring event was conducted May 2009 on 15 groundwater monitoring wells (seven in the Shallow Zone and eight in the Lower Queen) as required by the NMOCD.

Results from the May 2009 annual groundwater monitoring event indicated similar groundwater conditions at the site as previous reports with the exception that there were two Shallow Zone wells (MW-77 and MW-106) that were dry when they were gauged. Precipitation in 2008 was below normal, and likely contributed to limited groundwater recharge in the area. Analytical results for BTEX, chloride and TDS were similar to historical data for the sampled wells, with the exception of the Shallow Zone monitoring well MW-14 and the Lower Queen monitoring well MW-127. Total BTEX concentrations in both of these wells show a continuous decline and are currently at historic low levels, indicating that natural attenuation is occurring at the site.

5.2 Groundwater Monitoring Plan

Going forward, groundwater monitoring at the site will be conducted according to the requirements outlined in the February 20, 2009 NMOCD letter. In that letter, the NMOCD required at least annual groundwater monitoring for BTEX, TDS and chloride for the seven Shallow Zone and eight Lower Queen monitoring wells at the site, and semi-annual gauging of depth to groundwater and non-aqueous phase liquid thickness. In addition, the NMOCD required that an annual groundwater monitoring report must be submitted. Based on the current program schedule, the annual groundwater monitoring event will be conducted in the spring (April / May) and the semi-annual groundwater gauging event will be conducted in the fall (October / November). Annual reports will be prepared at the conclusion of each annual groundwater monitoring event and will be submitted to the NMOCD.

The current purging and sampling techniques utilize low-flow procedures that were approved and implemented in 2003. A copy of the March 1998 USEPA low-flow procedures is included in Appendix E.

Table 1A. Shallow Zone Monitoring Well Construction Details
Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico.

Well ID	Well Type	Measuring Point Elevation (feet amsl)	Total Depth (feet btoc)	Top of Screen/ Open Hole Interval (feet btoc)	Screen/Open Hole Depth (feet)	Casing Diameter (inches)
MW-1	monitoring	3792.50	15.00	9.00	6.00	2
MW-2	monitoring	3788.72	14.00	4.00	10.00	2
MW-3	monitoring	3787.50	15.00	5.00	10.00	2
MW-4	monitoring	3785.88	17.00	8.00	9.00	2
MW-5	monitoring	3801.69	11.00	6.00	5.00	2
MW-6	monitoring	3785.17	12.00	7.00	5.00	2
MW-7	monitoring	3784.46	16.00	6.00	10.00	2
MW-8	monitoring	3795.04	15.50	5.00	10.50	2
MW-9	monitoring	3807.85	11.00	6.00	5.00	2
MW-10	monitoring	3790.78	17.00	7.00	10.00	4
MW-11	monitoring	3806.96	22.00	12.00	10.00	4
MW-12	monitoring	3809.86	23.00	13.00	10.00	2
MW-13	monitoring	3801.58	20.00	10.00	10.00	2
MW-14	monitoring	3803.61	22.00	12.00	10.00	4
MW-15	monitoring	3803.59	17.00	7.00	10.00	2
MW-16	monitoring	3801.04	20.00	10.00	10.00	4
MW-17	monitoring	3799.55	18.00	8.00	10.00	2
MW-18	monitoring	3795.82	15.00	5.00	10.00	4
MW-19	monitoring	3797.21	17.00	7.00	10.00	4
MW-20	monitoring	3797.59	14.00	4.00	10.00	2
MW-21	monitoring	3798.21	21.00	11.00	10.00	2
MW-22	monitoring	3799.20	16.00	6.00	10.00	2
MW-23	monitoring	3794.48	10.00	5.00	5.00	2
MW-24	monitoring	3794.09	11.00	6.00	5.00	2
MW-25	monitoring	3786.97	8.00	3.00	5.00	2
MW-26	monitoring	3793.01	19.00	9.00	10.00	2
MW-27	monitoring	3790.93	15.00	10.00	5.00	2
MW-28	monitoring	3797.03	16.00	6.00	10.00	2
MW-29	monitoring	3794.06	12.00	7.00	5.00	2
MW-30	monitoring	3788.30	12.00	7.00	5.00	2
MW-31	monitoring	3791.15	16.50	7.00	9.50	4
MW-32	monitoring	3797.47	14.00	9.00	5.00	2
MW-33	monitoring	3802.48	18.00	9.00	9.00	4
MW-34	monitoring	3806.00	17.00	8.00	9.00	2
MW-35	monitoring	3800.81	19.00	14.00	5.00	4
MW-36	monitoring	3792.94	7.00	5.00	2.00	2
MW-37	monitoring	3795.03	19.00	9.00	10.00	4
MW-38	monitoring	3797.32	19.00	9.00	10.00	4
MW-39	monitoring	3796.20	19.00	9.00	10.00	4
MW-40	monitoring	3803.12	12.00	7.00	5.00	2
MW-41	monitoring	3799.04	22.00	12.00	10.00	4
MW-42	monitoring	3804.73	22.00	12.00	10.00	2
MW-43	monitoring	3802.05	22.00	12.00	10.00	4
MW-44	monitoring	3804.14	22.00	12.00	10.00	4
MW-45	monitoring	3808.68	24.00	9.50	14.50	2

Table 1A. Shallow Zone Monitoring Well Construction Details
Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico.

Well ID	Well Type	Measuring Point Elevation (feet amsl)	Total Depth (feet btoc)	Top of Screen/ Open Hole Interval (feet btoc)	Screen/Open Hole Depth (feet)	Casing Diameter (inches)
MW-46	monitoring	3805.54	18.00	8.00	10.00	4
MW-47	monitoring	3805.09	19.00	9.00	10.00	2
MW-48	monitoring	3806.18	18.00	8.00	10.00	2
MW-49	monitoring	3805.61	24.00	14.00	10.00	2
MW-50	monitoring	3813.35	35.00	20.00	15.00	2
MW-51	infiltration	3810.86	18.00	8.00	10.00	2
MW-52	monitoring	3817.49	19.00	9.00	10.00	2
MW-53	monitoring	3809.92	13.00	6.00	7.00	2
MW-54	monitoring	3823.86	76.00	41.00	35.00	4
MW-55	monitoring	3794.40	65.00	20.00	45.00	4
MW-56	monitoring	3782.45	42.00	27.00	15.00	4
MW-61	monitoring	3816.20	55.00	45.00	10.00	4
MW-65	monitoring	3763.31	55.00	35.00	20.00	4
MW-69	recovery	3805.11	48.00	13.00	35.00	4
MW-77	monitoring	3775.48	80.00	17.50	62.50	8
MW-78	monitoring	3785.82	85.00	13.00	72.00	8
MW-79	monitoring	3788.39	80.00	8.00	72.00	8
MW-80	monitoring	3821.64	90.00	19.00	71.00	8
MW-90	monitoring	3781.73	60.00	12.50	47.50	4
MW-91	monitoring	3783.07	70.00	12.50	57.50	4
MW-92	monitoring	3785.29	70.00	12.50	57.50	4
MW-93	monitoring	3817.50	70.00	12.50	57.50	4
MW-99	monitoring	3770.05	70.00	12.50	57.50	4
MW-100	monitoring	3773.31	70.00	12.50	57.50	4
MW-101	monitoring	3762.71	70.00	12.50	57.50	4
MW-102	monitoring	3753.69	80.00	12.50	67.50	4
MW-103	monitoring	3743.14	70.00	12.50	57.50	4
MW-105	monitoring	3736.93	80.00	12.50	67.5	4
MW-106	monitoring	3721.97	92.00	12.50	79.5	4
MW-107	monitoring	3726.27	70.00	12.50	57.5	4
MW-109	monitoring	3809.53	--	--	--	--
MW-117	phase II infill	3807.86	47.00	17.00	30.00	4
MW-126	phase II infill	3795.58	70.00	30.00	40.00	7
Sump A10	monitoring	3800.99	--	--	--	--
Sump 16A	monitoring	3785.14	--	--	--	--

Notes:

feet amsl Feet above mean sea level

feet btoc Feet below top of casing

-- Data not available

 Wells were plugged and abandoned in March 2003

 Wells were plugged and abandoned in March/April 2009

Table 1B. Lower Queen Monitoring Well Construction Details
Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico.

Well ID	Well Type	Measuring Point Elevation (feet amsl)	Total Depth (feet btoc)	Top of Screen/ Open Hole Interval (feet btoc)	Screen/Open Hole Depth (feet)	Casing Diameter (inches)
MW-57	monitoring	3787.70	175.00	155.00	20.00	4
MW-58	recovery	3824.07	216.00	191.00	25.00	4
MW-59	monitoring	3819.59	--	--	--	--
MW-60	monitoring	3815.28	220.00	170.00	50.00	4
MW-61A	monitoring	3819.97	214.00	173.50	40.50	4
MW-62	monitoring	3819.90	223.00	177.00	46.00	4
MW-63	monitoring	3826.16	220.00	174.00	46.00	4
MW-64	monitoring	3798.57	200.00	154.00	46.00	4
MW-65A	recovery	3763.26	166.00	115.00	51.00	4
MW-66	monitoring	3828.98	232.50	182.00	50.50	4
MW-67	monitoring	3765.87	163.00	112.00	51.00	4
MW-68	recovery	3797.83	200.00	149.00	51.00	4
MW-70	monitoring	3822.57	222.00	172.00	50.00	4
MW-71	monitoring	3778.05	233.00	165.00	68.00	4
MW-72	dual recovery	3819.32	241.50	181.50	60.00	6
MW-73	monitoring	3820.09	220.00	10.00	210.00	8
MW-74	monitoring	3820.82	220.00	170.00	50.00	6
MW-75	dual recovery	3816.12	220.00	170.00	50.00	6
MW-76	recovery	3796.01	220.00	9.00	211.00	8
MW-81	dual recovery	3817.03	225.00	71.00	154.00	8
MW-82	recovery	3825.07	250.00	67.50	182.50	6
MW-83	recovery	3794.12	202.00	152.00	50.00	6
MW-84	recovery	3759.60	170.00	120.00	50.00	6
MW-85	dual recovery	3824.93	235.00	162.00	73.00	6
MW-86	recovery	3823.99	225.00	185.00	40.00	6
MW-87	monitoring	3740.50	170.00	145.00	25.00	4
MW-87A	monitoring	3739.53	130.00	10.00	120.00	8
MW-88	monitoring	3789.7	175.00	142.50	32.50	8
MW-89	monitoring	3827.68	232.00	188.50	43.50	4
MW-94	recovery	3821.48	230.00	65.00	165.00	8
MW-95	monitoring	3746.26	145.00	111.00	34.00	4
MW-96	monitoring	3739.80	135.00	97.50	37.50	4
MW-97	monitoring	3750.16	148.00	107.50	40.50	4
MW-98	monitoring	3770.15	165.00	127.50	37.50	4
MW-104	monitoring	3793.64	220.00	145.00	75.00	6
MW-108	monitoring	3747.13	--	--	--	--
MW-110	recovery	3812.61	235.00	175.00	60.00	6
MW-111	monitoring	3824.44	230.00	190.00	40.00	4
MW-112	phase I infill	3780.11	211.00	140.00	71.00	6
MW-113*	phase I infill	3772.67	200.00	125.00	75.00	6
MW-114	phase I infill	3805.32	220.00	111.00	109.00	8
MW-115	phase I infill	3804.69	224.00	35.00	189.00	8
MW-116	phase I infill	3792.11	220.00	150.00	70.00	6
MW-117A	phase II infill	3808.24	225.00	46.00	179.00	8
MW-118	phase II infill	3762.88	202.00	112.00	90.00	4
MW-119	phase II infill	3824.74	245.00	185.00	60.00	4

Table 1B. Lower Queen Monitoring Well Construction Details
Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico.

Well ID	Well Type	Measuring Point Elevation (feet amsl)	Total Depth (feet btoc)	Top of Screen/ Open Hole Interval (feet btoc)	Screen/Open Hole Depth (feet)	Casing Diameter (inches)
MW-120	phase II infill	3820.65	240.00	180.00	60.00	4
MW-121	phase II infill	3820.88	225.00	175.00	50.00	4
MW-122	phase II infill	3822.79	225.00	36.00	189.00	7
MW-123	phase II infill	3768.77	225.00	125.00	100.00	4
MW-124	phase II infill	3777.83	225.00	17.00	208.00	7
MW-125	phase II infill	3790.61	225.00	130.00	95.00	4
MW-127	phase II infill	3825.17	245.00	195.00	50.00	4
MW-128	phase II infill	3786.08	225.00	37.50	187.50	7
MW-129	phase II infill	3800.82	245.00	155.00	90.00	4
MW-130	phase II infill	3775.54	225.00	145.00	80.00	4
MW-131	phase II infill	3784.23	245.00	145.00	100.00	4
IW-1	infiltration	3808.55	230.00	73.00	157.00	12
IW-2	infiltration	3835.86	300.00	159.00	141.00	12
SW-1	monitoring	3808.19	--	--	--	--
SW-2	monitoring	3808.79	--	--	--	--
SW-3	monitoring	3842.29	230.00	81.50	148.50	8
VE-1	vapor extraction	--	214.00	80.00	134.00	8
VE-2	vapor extraction	--	210.00	75.00	135.00	8
VE-3	vapor extraction	--	202.00	75.00	127.00	8
VE-4	vapor extraction	--	183.00	60.00	123.00	8
VE-5	vapor extraction	--	168.00	60.00	108.00	8
VE-16	vapor extraction	3750.96	150.00	42.50	107.50	8
VE-17	vapor extraction	3756.73	130.00	40.00	90.00	8
VE-18	vapor extraction	3756.82	163.00	37.50	125.50	8
VE-19	vapor extraction	3761.18	150.00	115.00	35.00	6
VE-20	vapor extraction	3768.41	160.00	37.50	122.50	8

Notes:

feet amsl Feet above mean sea level

feet btoc Feet below top of casing

-- Data not available

* Construction details not available, modification details are estimated

 Wells were plugged and abandoned in March/April 2009

Table 2. Groundwater Monitoring Plan
Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico.

Shallow Zone

Well ID	Sampling Schedule				
	Date Spring	annual	Analytical Parameters annual	Date Fall	semi-annual
MW-14	X	Groundwater Gauging	BTEX, Chloride, TDS	X	Groundwater Gauging
MW-45	X	Groundwater Gauging	BTEX, Chloride, TDS	X	Groundwater Gauging
MW-46	X	Groundwater Gauging	BTEX, Chloride, TDS	X	Groundwater Gauging
MW-49	X	Groundwater Gauging	BTEX, Chloride, TDS	X	Groundwater Gauging
MW-77	X	Groundwater Gauging	BTEX, Chloride, TDS	X	Groundwater Gauging
MW-106	X	Groundwater Gauging	BTEX, Chloride, TDS	X	Groundwater Gauging
MW-126	X	Groundwater Gauging	BTEX, Chloride, TDS	X	Groundwater Gauging

Lower Queen

Well ID	Sampling Schedule				
	Date Spring	annual	Analytical Parameters annual	Date Fall	semi-annual
MW-58	X	Groundwater Gauging	BTEX, Chloride, TDS	X	Groundwater Gauging
MW-66	X	Groundwater Gauging	BTEX, Chloride, TDS	X	Groundwater Gauging
MW-70	X	Groundwater Gauging	BTEX, Chloride, TDS	X	Groundwater Gauging
MW-81	X	Groundwater Gauging	BTEX, Chloride, TDS	X	Groundwater Gauging
MW-88	X	Groundwater Gauging	BTEX, Chloride, TDS	X	Groundwater Gauging
MW-111	X	Groundwater Gauging	BTEX, Chloride, TDS	X	Groundwater Gauging
MW-113	X	Groundwater Gauging	BTEX, Chloride, TDS	X	Groundwater Gauging
MW-127	X	Groundwater Gauging	BTEX, Chloride, TDS	X	Groundwater Gauging

Notes:

TDS Total Dissolved Solids

Table 3. Summary of Groundwater Gauging Results, May 2009 Annual Groundwater Sampling Event
Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico.

Well Number	Well Diameter (in)	Northing NAD 27 Con	Easting hddd,mm',ss.S"	Total Depth From TOC (ft)	Top of Casing (ft amsl)	Top of Casing Stickup (ft agl)	DTW (feet)	DTP (feet)	PT (feet)	PT x 0.73 (feet)	ADJ DTW (feet)	WL Elev (ft amsl)	Comments
Shallow Zone													
MW-14	4	32 27 44.3	104 34 00.9	24.35	3803.61	2.08	23.75					3779.86	
MW-45	2	32 28 01.1	104 34 08.7	26.45	3808.68	1.60	21.56					3787.12	
MW-46	4	32 27 56.7	104 34 05.8	19.90	3805.54	1.90	19.38					3786.16	
MW-49	2	32 27 57.6	104 33 59.9	26.50	3805.61	1.90	22.35					3783.26	
MW-77	7.875	32 27 27.3	104 33 25.0	84.15	3775.48	2.38	Dry					Dry	Well dry, confirmed with bailer.
MW-106	4	32 26 57.0	104 32 26.4	94.27	3721.97	2.61	Dry					Dry	Well dry, confirmed with bailer.
MW-126	4	32 27 48.2	104 33 49.9	78.10	3796.28	3.33	69.95	69.90	0.05	0.04	69.91	3726.37	Condensate in well, confirmed with bailer.
Lower Queen													
MW-58	7.875	32 28 04.5	104 33 28.5	219.48	3824.07	3.48	200.73	195.47	5.26	3.84	196.89	3627.18	Condensate in well, confirmed with bailer.
MW-66	4	32 28 19.1	104 33 28.5	232.50	3828.98	2.60	206.47					3622.51	
MW-70	4	32 27 18.8	104 34 05.5	224.71	3822.57	2.71	199.45					3623.12	
MW-81	7.875	32 28 04.3	104 33 19.5	228.98	3817.03	3.98	193.97	193.87	0.10	0.07	193.90	3623.13	Condensate in well, confirmed with bailer.
MW-88	4	32 28 25.3	104 32 55.6	177.80	3789.70	2.71	166.91					3622.79	
MW-111	4	32 28 15.9	104 34 06.1	231.85	3824.44	1.85	202.50					3621.94	
MW-113	7.875	32 27 16.3	104 33 32.1	201.82	3772.67	1.82	149.10	trace				3623.57	Trace amount of condensate in well, confirmed with bailer.
MW-127	8.25	32 28 00.8	104 33 58.8	247.63	3825.17	2.63	203.10					3622.07	

Table 4. Summary of Historical Rainfall with Monthly Rainfall During 2008
Marathon Oil Company, Indian Basin Remediation Project
Eddy County, New Mexico.

Historical Rainfall	
Year	Rainfall (inches)
1994	9.31
1995	7.84
1996	16.60
1997	10.65
1998	3.95
1999	4.70
2000	9.75
2001	6.02
2002	12.70
2003	7.58
2004	26.96
2005	11.16
2006	17.49
2007	19.02*
2008	9.39*

Monthly Rainfall During 2008	
Month	Rainfall (inches)
January	0.01*
February	0.04*
March	0.23*
April	0.00*
May	0.86*
June	0.62*
July	2.52*
August	1.88*
September	2.33*
October	0.73*
November	0.04*
December	0.13*
2008 Annual Total	9.39*

Source: Rain gauge at Indian Basin Gas Plant
* Taken from Cavern City Air Terminal

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Table 5. Summary of Analytical Results, May 2009 Annual Groundwater Sampling Event
Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico.

		Analytical Parameters						
Well ID	Sample Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes (ug/L)	Total BTEX (ug/L)	TDS (mg/L)	Chloride (mg/L)
Shallow Zone Wells								
MW-14	5/27/2009	1.1	<1	1.1	1.7	19.2	Not Sampled - not enough water to collect sample	
MW-45	5/29/2009	<1	<1	<1	1.7	1.7	2540	174
MW-46	5/27/2009	<1	<1	<1	1.1	1.1	Not Sampled - not enough water to collect sample	
MW-49	5/28/2009	37	<1	<1	1.2	38.2	3090	370
MW-77	---	Not Sampled - Well Dry						
MW-106	---	Not Sampled - Well Dry						
MW-126	---	Not Sampled - well contained condensate						
Lower Queen Wells								
MW-58	---	Not Sampled - well contained condensate						
MW-66	5/27/2009	<1	<1	<1	<1	<1	865	8.29
MW-70	5/27/2009	<1	<1	<1	<1	<1	508	10.2
MW-81	---	Not Sampled - well contained condensate						
MW-88	5/27/2009	<1	<1	<1	<1	<1	937	48.1
MW-111	5/27/2009	<1	<1	<1	<1	<1	886	67.9
MW-113	---	Not Sampled - well contained condensate						
MW-127	5/28/2009	<1	<1	<1	1.4	1.4	766	77.1

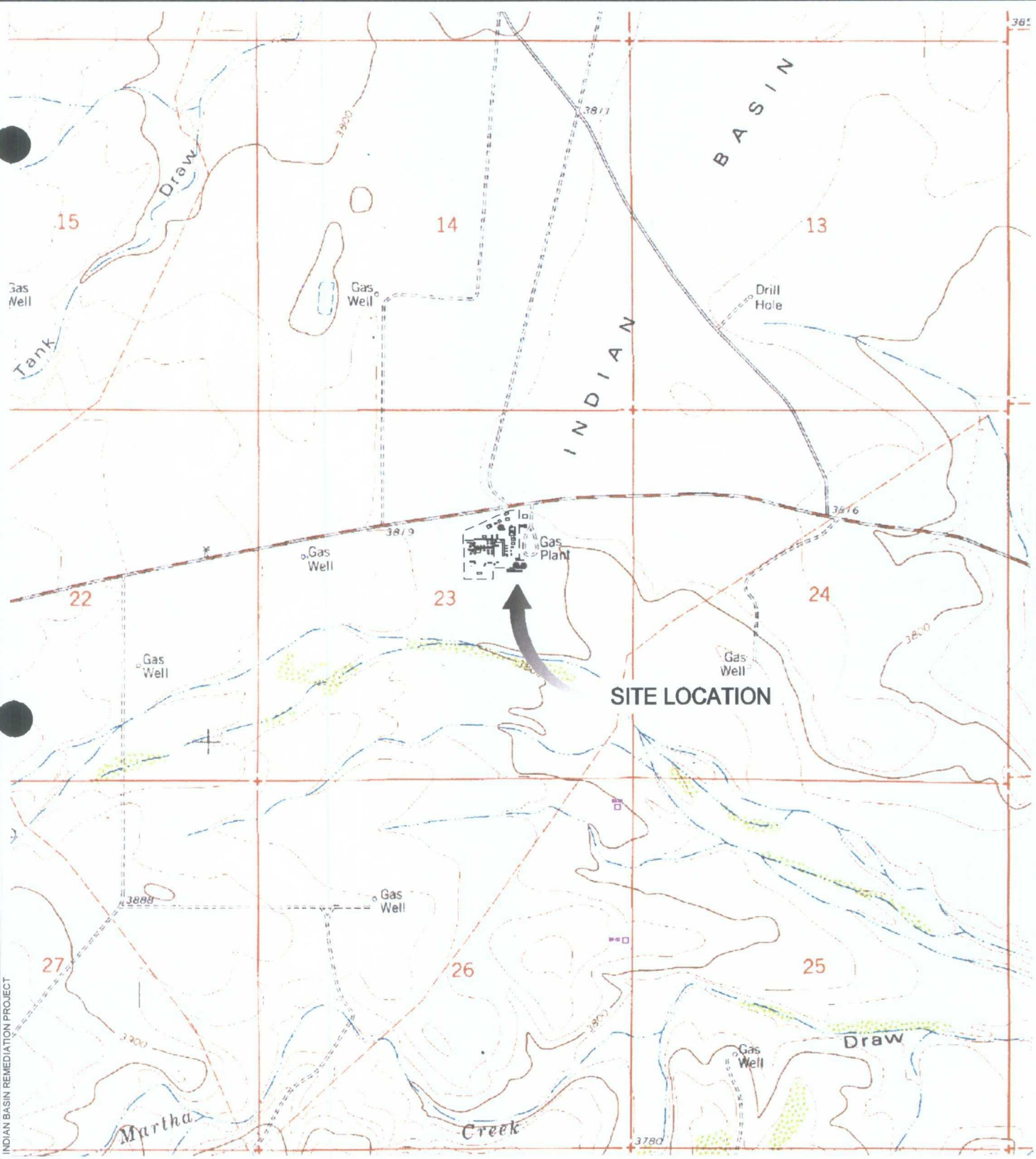
Notes:

ug/L	Micrograms per liter
<5	Compound detected below the detection limit - limit indicated
---	Not Sampled
6	Indicates result above the detection limit and below the OCD standard
16	Indicates result at/above OCD standard

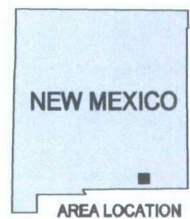
OCD Cleanup Goals/Regulatory Limits

Benzene	10 ug/L
Toluene	750 ug/L
Ethylbenzene	750 ug/L
Total Xylenes	620 ug/L
Total Diss. Solids	1,000 mg/L
Chloride	250 mg/L

CITY: MID-TX DIV 85GROUP: ENV DB: HC LD: AM: BG PG: AIR TR: LYRONA-OFF-REF: UN: 31-008-00471
G:\EN\CAD\MEDIAN\ACT\MIDT0101000001\DWG\010100001.DWG LAYOUT: 1 SAVED: 7/29/2009 8:49 AM ACADVER: 17.08 (LMS TECH) PAGESETUP: PDF PLOTSTYLETABLE: AGANDM.CTB PLOTTED: 7/29/2009 2:43 PM BY: CLARDO, HERB
PROJECT NAME: INDIAN BASIN REMEDIATION PROJECT
MAPS: 32104



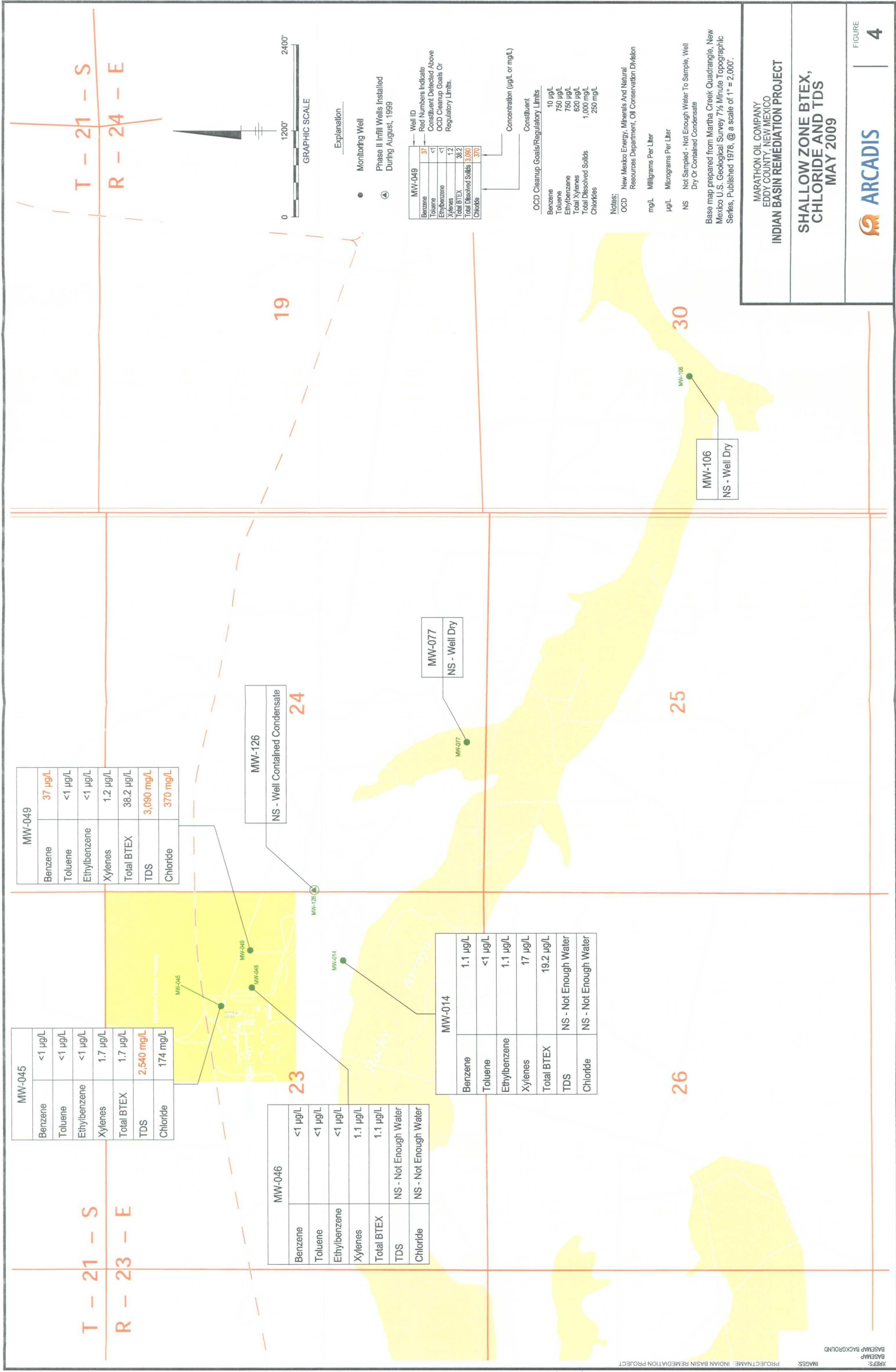
SOURCE: U.S. GEOLOGICAL SURVEY 7½ MINUTE TOPOGRAPHIC SERIES, MARTHA CREEK, NEW MEXICO QUADRANGLE, PUBLISHED 1978.



MARATHON OIL COMPANY
EDDY COUNTY, NEW MEXICO
INDIAN BASIN REMEDIATION PROJECT

SITE LOCATION MAP







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Appendix A

Historical Fluid Level Data

Appendix A
 Historic Fluid Level Data, May 1991 - May 2009
 Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
Shallow Zone Wells					
MW-1	12/01/91	3792.50	9.68	0	3782.82
MW-1	04/01/96	3792.50	D		
MW-1	01/27/98	3792.50	14.90	0	3777.60
MW-1	06/16/98	3792.50	D		
MW-1	04/26/00	3792.50	14.98	0	3777.52
MW-1	09/27/00	3792.50	D		
MW-1	04/16/01	3792.50	14.80	0	3777.70
MW-1	10/29/01	3792.50	D		
MW-1	04/15/02	3792.50	D		
MW-1	10/14/02	3792.50	D		
MW-1	03/29/03	PLUGGED AND ABANDONED			
MW-2	01/28/98	3788.72	D		
MW-2	06/16/98	3788.72	D		
MW-2	01/16/96	3788.72	D		
MW-2	04/26/00	3788.72	D		
MW-2	09/27/00	3788.72	D		
MW-2	04/16/01	3788.72	D		
MW-2	10/29/01	3788.72	D		
MW-2	04/15/02	3788.72	D		
MW-2	10/14/02	3788.72	D		
MW-2	03/29/03	PLUGGED AND ABANDONED			
MW-3	04/19/96	3787.50	D		
MW-3	07/16/96	3787.50	D		
MW-3	10/13/96	3787.50	D		
MW-3	01/28/98	3787.50	D		
MW-3	06/16/98	3787.50	D		
MW-3	04/26/00	3787.50	D		
MW-3	09/27/00	3787.50	D		
MW-3	04/16/01	3787.50	D		
MW-3	10/29/01	3787.50	D		
MW-3	04/15/02	3787.50	D		
MW-3	10/14/02	3787.50	D		
MW-3	03/26/03	PLUGGED AND ABANDONED			
MW-4	04/15/92	3785.88	18.58	0	3767.30
MW-4	07/01/92	3785.88	17.74	0	3768.14
MW-4	10/01/92	3785.88	18.54	0	3767.34
MW-4	01/01/93	3785.88	18.57	0	3767.31
MW-4	04/01/93	3785.88	18.57	0	3767.31
MW-4	01/28/98	3785.88	D		
MW-4	06/16/98	3785.88	D		
MW-4	01/05/00	3785.88	18.78	0	3767.10
MW-4	04/26/00	3785.88	D		
MW-4	09/27/00	3785.88	D		
MW-4	04/16/01	3785.88	D		
MW-4	10/29/01	3785.88	D		
MW-4	04/15/02	3785.88	D		
MW-4	10/14/02	3785.88	D		
MW-4	4/15/03	3785.88	D		
MW-4	10/14/03	3785.88	D		
MW-4	04/05/04	3785.88	D		
MW-4	10/05/04	3785.88	D		
MW-4	04/19/05	3785.88	18.58	0	3767.30
MW-4	10/24/05	3785.88	18.60	0	3767.28
MW-4	04/18/06	3785.88	18.61	0	3767.27
MW-4	10/11/06	3785.88	18.63	0	3767.25
MW-4	04/17/07	3785.88	18.64		3767.24
MW-4	10/22/07	3785.88	18.65	0	3767.23
MW-4	04/07/09	PLUGGED AND ABANDONED			
MW-5	01/16/96	3801.69	D		
MW-5	04/19/96	3801.69	D		
MW-5	07/15/96	3801.69	D		
MW-5	10/13/96	3801.69	D		
MW-5	01/27/98	3801.69	D		
MW-5	06/16/98	3801.69	D		
MW-5	04/26/00	3801.69	D		
MW-5	09/27/00	3801.69	D		
MW-5	04/16/01	3801.69	D		
MW-5	10/29/01	3801.69	D		
MW-5	04/15/02	3801.69	D		
MW-5	10/14/02	3801.69	D		
MW-5	03/29/03	PLUGGED AND ABANDONED			

D = Dry
 NA = Not Available
 NG = Not Gauged
 NR = No Record

Appendix A
 Historic Fluid Level Data, May 1991 - May 2009
 Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-6	01/16/96	3785.17	D	--	--
MW-6	01/27/98	3785.17	D	--	--
MW-6	06/15/98	3785.17	D	--	--
MW-6	04/26/00	3785.17	D	--	--
MW-6	09/27/00	3785.17	D	--	--
MW-6	04/16/01	3785.17	D	--	--
MW-6	10/29/01	3785.17	D	--	--
MW-6	04/15/02	3785.17	D	--	--
MW-6	10/14/02	3785.17	D	--	--
MW-6	03/29/03	PLUGGED AND ABANDONED			
MW-7	01/16/96	3784.46	D	--	--
MW-7	04/17/96	3784.46	D	--	--
MW-7	07/15/96	3784.46	D	--	--
MW-7	10/13/96	3784.46	D	--	--
MW-7	01/27/98	3784.46	D	--	--
MW-7	06/15/98	3784.46	D	--	--
MW-7	04/26/00	3784.46	D	--	--
MW-7	09/27/00	3784.46	D	--	--
MW-7	04/16/01	3784.46	D	--	--
MW-7	10/29/01	3784.46	D	--	--
MW-7	04/15/02	3784.46	D	--	--
MW-7	10/14/02	3784.46	D	--	--
MW-7	03/29/03	PLUGGED AND ABANDONED			
MW-8	01/16/96	3795.04	D	--	--
MW-8	04/17/96	3795.04	D	--	--
MW-8	10/13/96	3795.04	D	--	--
MW-8	01/27/98	3795.04	D	--	--
MW-8	06/15/98	3795.04	D	--	--
MW-8	04/26/00	3795.04	D	--	--
MW-8	09/27/00	3795.04	D	--	--
MW-8	04/16/01	3795.04	D	--	--
MW-8	10/29/01	3795.04	D	--	--
MW-8	04/15/02	3795.04	D	--	--
MW-8	10/14/02	3795.04	D	--	--
MW-8	03/29/03	PLUGGED AND ABANDONED			
MW-9	01/16/96	3807.85	D	--	--
MW-9	04/17/96	3807.85	D	--	--
MW-9	07/15/96	3807.85	D	--	--
MW-9	10/13/96	3807.85	D	--	--
MW-9	01/27/98	3807.85	D	--	--
MW-9	06/15/98	3807.85	D	--	--
MW-9	04/26/00	3807.85	D	--	--
MW-9	09/27/00	3807.85	D	--	--
MW-9	04/16/01	3807.85	D	--	--
MW-9	10/29/01	3807.85	D	--	--
MW-9	04/15/02	3807.85	D	--	--
MW-9	10/14/02	3807.85	D	--	--
MW-9	03/29/03	PLUGGED AND ABANDONED			
MW-10	12/01/91	3790.78	16.68	0	3774.10
MW-10	04/15/92	3790.78	16.70	0	3774.08
MW-10	07/01/92	3790.78	16.02	0	3774.76
MW-10	10/01/92	3790.78	16.97	0	3773.81
MW-10	01/01/93	3790.78	17.74	0	3773.04
MW-10	04/01/93	3790.78	18.31	0	3772.47
MW-10	01/01/94	3790.78	18.21	0	3772.57
MW-10	01/16/96	3790.78	D	--	--
MW-10	04/17/96	3790.78	D	--	--
MW-10	07/16/96	3790.78	D	--	--
MW-10	10/13/96	3790.78	17.00	0	3773.78
MW-10	02/04/97	3790.78	17.99	0	3772.79
MW-10	03/18/97	3790.78	17.88	0	3772.90
MW-10	04/29/97	3790.78	18.21	0	3772.57
MW-10	07/15/97	3790.78	18.20	0	3772.58
MW-10	10/14/97	3790.78	18.45	0	3772.33
MW-10	01/28/98	3790.78	18.20	0	3772.58
MW-10	04/27/98	3790.78	18.19	0	3772.59
MW-10	06/16/98	3790.78	D	--	--
MW-10	10/10/98	3790.78	18.96	0	3771.82
MW-10	01/27/99	3790.78	18.21	0	3772.57
MW-10	04/19/99	3790.78	18.20	0	3772.58
MW-10	01/05/00	3790.78	18.24	0	3772.54
MW-10	04/26/00	3790.78	18.20	0	3772.58

D = Dry
 NA = Not Available
 NG = Not Gauged
 NR = No Record

Appendix A
Historic Fluid Level Data, May 1991 - May 2009
Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-10	09/27/00	3790.78	D	--	--
MW-10	04/16/01	3790.78	18.40	0	3772.38
MW-10	10/29/01	3790.78	0	--	--
MW-10	04/15/02	3790.78	0	--	--
MW-10	10/14/02	3790.78	0	--	--
MW-10	4/15/03	3790.78	17.91	0	3772.87
MW-10	10/14/03	3790.78	17.91	0	3772.87
MW-10	04/05/04	3790.78	17.26	0	3773.52
MW-10	10/05/04	3790.78	17.02	0	3773.76
MW-10	04/19/05	3790.78	17.40	0	3773.38
MW-10	10/24/05	3790.78	17.53	0	3773.25
MW-10	04/18/06	3790.78	17.92	0	3772.86
MW-10	10/11/06	3790.78	17.07	0	3773.71
MW-10	04/17/07	3790.78	17.97	0	3772.81
MW-10	10/22/07	3790.78	17.98	0	3772.80
MW-10	04/07/09	PLUGGED AND ABANDONED			
MW-11	12/01/91	3806.96	22.08	0	3784.88
MW-11	04/15/92	3806.96	22.73	0	3784.23
MW-11	07/01/92	3806.96	18.00	0	3788.96
MW-11	10/01/92	3806.96	22.47	0	3784.49
MW-11	01/01/93	3806.96	24.03	0	3782.93
MW-11	04/01/93	3806.96	24.38	0	3782.58
MW-11	10/01/93	3806.96	24.43	0	3782.53
MW-11	01/01/94	3806.96	24.30	0	3782.66
MW-11	04/01/94	3806.96	24.38	0	3782.58
MW-11	07/01/94	3806.96	24.34	0	3782.62
MW-11	10/01/94	3806.96	22.23	0	3784.73
MW-11	04/01/95	3806.96	24.23	0	3782.73
MW-11	07/01/95	3806.96	23.80	0	3783.16
MW-11	10/01/95	3806.96	22.01	0	3784.95
MW-11	01/16/96	3806.96	23.91	0	3783.05
MW-11	04/19/96	3806.96	23.97	0	3782.99
MW-11	07/15/96	3806.96	20.05	0	3786.91
MW-11	10/13/96	3806.96	20.46	0	3786.50
MW-11	02/04/97	3806.96	23.22	0	3783.74
MW-11	04/28/97	3806.96	23.40	0	3783.56
MW-11	06/17/98	3806.96	24.20	0	3782.76
MW-11	04/19/99	3806.96	D	--	--
MW-11	01/05/00	3806.96	24.30	0	3782.66
MW-11	04/26/00	3806.96	24.31	0	3782.65
MW-11	09/27/00	3806.96	24.28	0	3782.68
MW-11	04/16/01	3806.96	23.95	0	3783.01
MW-11	10/29/01	3806.96	23.45	0	3783.51
MW-11	04/15/02	3806.96	24.28	0	3782.68
MW-11	10/14/02	3806.96	18.13	0	3788.83
MW-11	4/15/03	3806.96	23.63	0	3783.33
MW-11	10/14/03	3806.96	23.74	0	3783.22
MW-11	04/05/04	3806.96	24.25	0	3782.71
MW-11	10/05/04	3806.96	17.80	0	3789.16
MW-11	04/19/05	3806.96	23.48	0	3783.48
MW-11	10/24/05	3806.96	22.60	0	3784.36
MW-11	04/18/06	3806.96	24.24	0	3782.72
MW-11	10/11/06	3806.96	20.23	0	3786.73
MW-11	04/16/07	3806.96	24.07	0	3782.89
MW-11	10/22/07	3806.96	23.63	0	3783.33
MW-11	03/25/09	PLUGGED AND ABANDONED			
MW-12	01/27/98	3809.96	D	--	--
MW-12	06/16/98	3809.96	D	--	--
MW-12	04/26/00	3809.96	25.00	0	3784.96
MW-12	09/27/00	3809.96	D	--	--
MW-12	04/16/01	3809.96	25.00	0	3784.96
MW-12	10/29/01	3809.96	25.01	0	3784.95
MW-12	04/15/02	3809.96	24.98	0	3784.88
MW-12	10/14/02	3809.96	21.06	0	3788.80
MW-12	4/15/03	3809.86	25.11	0	3784.75
MW-12	10/14/03	3809.86	25.12	0	3784.74
MW-12	04/05/04	3809.86	25.14	0	3784.72
MW-12	10/05/04	3809.86	20.66	0	3789.20
MW-12	04/19/05	3809.86	25.12	0	3784.74
MW-12	10/24/05	3809.86	25.08	0	3784.78
MW-12	04/18/06	3809.86	25.13	0	3784.73
MW-12	10/11/06	3809.86	23.17	0	3786.69
MW-12	04/16/07	3809.86	25.17	0	3784.69
MW-12	10/22/07	3809.86	25.10	0	3784.76
MW-12	03/25/09	PLUGGED AND ABANDONED			

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NR = No Record

Appendix A
 Historic Fluid Level Data, May 1991 - May 2009
 Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-13	12/01/91	3801.58	18.14	0	3783.44
MW-13	04/15/92	3801.58	18.92	0	3782.66
MW-13	01/01/95	3801.58	19.76	0	3781.82
MW-13	04/01/95	3801.58	20.34	0	3781.24
MW-13	07/01/95	3801.58	20.36	0	3781.22
MW-13	10/01/95	3801.58	18.41	0	3783.17
MW-13	01/16/96	3801.58	19.83	0.08	3781.80
MW-13	04/19/96	3801.58	19.89	0.09	3781.75
MW-13	07/15/96	3801.58	17.15	0.08	3784.48
MW-13	10/13/96	3801.58	17.39	0	3784.19
MW-13	02/04/97	3801.58	19.15	0	3782.43
MW-13	03/18/97	3801.58	19.31	0	3782.27
MW-13	04/28/97	3801.58	19.34	0	3782.24
MW-13	06/17/98	3801.58	20.74	0	3780.84
MW-13	04/19/99	3801.58	21.52	0.27	3780.26
MW-13	01/05/00	3801.58	20.07	0	3781.51
MW-13	04/26/00	3801.58	20.64	0	3780.94
MW-13	09/27/00	3801.58	21.16	0	3780.42
MW-13	04/16/01	3801.58	19.96	0	3781.62
MW-13	10/29/01	3801.58	19.69	0	3781.89
MW-13	04/15/02	3801.58	20.62	0	3780.96
MW-13	10/14/02	3801.58	16.04	0	3785.54
MW-13	04/15/03	3801.58	19.63	0	3781.95
MW-13	10/14/03	3801.58	19.95	0	3781.63
MW-13	04/05/04	3801.58	21.16	0	3780.42
MW-13	10/05/04	3801.58	15.61	0	3785.97
MW-13	04/19/05	3801.58	19.35	0	3782.23
MW-13	10/24/05	3801.58	18.63	0	3782.95
MW-13	04/18/06	3801.58	20.31	0	3781.27
MW-13	11/11/06	3801.58	16.98	0	3784.60
MW-13	04/16/07	3801.58	19.79	0	3781.79
MW-13	10/22/07	3801.58	19.21	0	3782.37
MW-13	03/25/09	PLUGGED AND ABANDONED			
MW-14	12/01/91	3803.61	9.68	0	3793.93
MW-14	10/01/93	3803.61	22.55	0	3781.06
MW-14	01/01/94	3803.61	22.78	0	3780.83
MW-14	01/27/98	3803.61	22.36	0	3781.25
MW-14	06/16/98	3803.61	22.88	0	3780.73
MW-14	04/19/99	3803.61	23.74	0.24	3780.05
MW-14	01/05/00	3803.61	22.22	0	3781.39
MW-14	04/26/00	3803.61	22.74	0.03	3780.89
MW-14	09/27/00	3803.61	23.40	0.09	3780.28
MW-14	04/16/01	3803.61	22.15	0.01	3781.47
MW-14	10/29/01	3803.61	21.98	0.08	3781.69
MW-14	04/15/02	3803.61	22.81	0	3780.80
MW-14	10/14/02	3803.61	18.17	0	3785.44
MW-14	04/15/03	3803.61	21.87	0	3781.74
MW-14	10/14/03	3803.61	22.19	0	3781.42
MW-14	04/05/04	3803.61	23.45	0.01	3780.17
MW-14	10/05/04	3803.61	18.36	0	3785.25
MW-14	04/19/05	3803.61	21.55	0	3782.06
MW-14	10/24/05	3803.61	20.69	0	3782.92
MW-14	04/18/06	3803.61	22.69	0	3780.92
MW-14	10/11/06	3803.61	19.20	0	3784.41
MW-14	04/16/07	3803.61	22.1	0	3781.51
MW-14	10/22/07	3803.61	21.15	0	3782.46
MW-14	05/27/09	3803.61	23.75	0	3779.86
MW-15	12/01/91	3803.59	9.68	0	3793.91
MW-15	01/27/98	3803.59	19.28	0	3784.31
MW-15	06/16/98	3803.59	D	--	--
MW-15	01/05/00	3803.59	19.37	0	3784.22
MW-15	04/26/00	3803.59	19.30	0	3784.29
MW-15	09/27/00	3803.59	D	--	--
MW-15	04/16/01	3803.59	19.32	--	3784.27
MW-15	10/29/01	3803.59	19.36	--	3784.23
MW-15	04/15/02	3803.59	D	--	--
MW-15	10/14/02	3803.59	D	--	--
MW-15	03/29/03	PLUGGED AND ABANDONED			
MW-16	12/01/91	3801.04	9.68	0	3791.36
MW-16	04/01/93	3801.04	22.32	0	3778.72
MW-16	07/01/93	3801.04	22.25	0	3778.79
MW-16	01/27/98	3801.04	22.37	0	3778.67
MW-16	06/16/98	3801.04	D	--	--

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Appendix A
Historic Fluid Level Data, May 1991 - May 2009
Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-16	01/05/00	3801.04	22.38	0	3778.66
MW-16	04/26/00	3801.04	22.37	0	3778.67
MW-16	09/27/00	3801.04	22.42	0	3778.62
MW-16	04/16/01	3801.04	22.41	0	3778.63
MW-16	10/29/01	3801.04	22.33	0	3778.71
MW-16	04/15/02	3801.04	22.41	0	3778.63
MW-16	10/14/02	3801.04	18.41	0	3782.63
MW-16	04/15/03	3801.04	22.43	0	3778.61
MW-16	10/14/03	3801.04	22.44	0	3778.60
MW-16	04/05/04	3801.04	22.40	0	3778.64
MW-16	10/05/04	3801.04	19.99	0	3781.05
MW-16	04/19/05	3801.04	22.41	0	3778.63
MW-16	10/24/05	3801.04	22.36	0	3778.68
MW-16	04/18/06	3801.04	22.42	0	3778.62
MW-16	10/11/06	3801.04	20.57	0	3780.47
MW-16	04/16/07	3801.04	22.44	0	3778.60
MW-16	10/22/07	3801.04	22.40	0	3778.64
MW-16	03/25/09	PLUGGED AND ABANDONED			
MW-17	12/01/91	3799.55	9.68	0	3789.87
MW-17	04/01/93	3799.55	18.68	0	3780.87
MW-17	07/01/93	3799.55	19.13	0	3780.42
MW-17	10/01/93	3799.55	19.11	0	3780.44
MW-17	01/01/94	3799.55	19.27	0	3780.28
MW-17	01/27/98	3799.55	19.20	0	3780.35
MW-17	06/17/98	3799.55	D	--	--
MW-17	01/05/00	3799.55	19.10	0	3780.45
MW-17	04/26/00	3799.55	19.54	0	3780.01
MW-17	09/27/00	3799.55	D	--	--
MW-17	04/16/01	3799.55	18.14	0	3781.41
MW-17	10/29/01	3799.55	18.61	0	3780.94
MW-17	04/15/02	3799.55	19.42	0	3780.13
MW-17	10/14/02	3799.55	16.49	0	3783.06
MW-17	04/15/03	3799.55	18.81	0	3780.74
MW-17	10/14/03	3799.55	19.13	0	3780.42
MW-17	04/05/04	3799.55	20.01	0	3779.54
MW-17	10/05/04	3799.55	16.42	0	3783.13
MW-17	04/19/05	3799.55	18.81	0	3780.74
MW-17	10/24/05	3799.55	18.01	0	3781.54
MW-17	04/18/06	3799.55	19.76	0	3779.79
MW-17	10/11/06	3799.55	16.91	0	3782.64
MW-17	04/16/07	3799.55	19.07	0	3780.48
MW-17	10/22/07	3799.55	18.29	0	3781.26
MW-17	03/24/09	PLUGGED AND ABANDONED			
MW-18	12/01/91	3795.82	9.68	0	3786.14
MW-18	04/15/92	3795.82	15.25	0	3780.57
MW-18	07/01/92	3795.82	11.08	0	3784.74
MW-18	10/01/92	3795.82	15.89	0	3779.93
MW-18	01/01/93	3795.82	17.05	0	3778.77
MW-18	04/01/93	3795.82	17.13	0	3778.69
MW-18	01/27/98	3795.82	17.30	0	3778.52
MW-18	06/16/98	3795.82	D	--	--
MW-18	01/05/00	3795.82	D	--	--
MW-18	04/26/00	3795.82	D	--	--
MW-18	09/27/00	3795.82	D	--	--
MW-18	04/16/01	3795.82	D	--	--
MW-18	10/29/01	3795.82	D	--	--
MW-18	04/15/02	3795.82	D	--	--
MW-18	10/14/02	3795.82	D	--	--
MW-18	03/29/03	PLUGGED AND ABANDONED			
MW-19	04/15/92	3797.21	16.50	0	3780.71
MW-19	07/01/92	3797.21	12.15	0	3785.06
MW-19	10/01/92	3797.21	17.16	0	3780.05
MW-19	01/01/93	3797.21	18.85	0	3778.36
MW-19	04/01/93	3797.21	18.93	0	3778.28
MW-19	01/16/96	3797.21	19.04	0	3778.17
MW-19	04/19/96	3797.21	19.06	0	3778.15
MW-19	07/16/96	3797.21	19.04	0	3778.17
MW-19	10/13/96	3797.21	16.09	0	3781.12
MW-19	02/04/97	3797.21	18.34	0	3778.87
MW-19	03/18/97	3797.21	18.50	0	3778.71
MW-19	04/28/97	3797.21	18.84	0	3778.37
MW-19	06/17/98	3797.21	18.88	0	3778.33
MW-19	04/19/99	3797.21	18.80	0	3778.41
MW-19	01/05/00	3797.21	18.75	0	3778.46

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NR = No Record

Appendix A
 Historic Fluid Level Data, May 1991 - May 2009
 Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-19	04/26/00	3797.21	18.81	0	3778.40
MW-19	09/27/00	3797.21	18.74	0	3778.47
MW-19	04/16/01	3797.21	18.60	0	3778.61
MW-19	10/29/01	3797.21	18.76	0	3778.45
MW-19	04/15/02	3797.21	18.83	0	3778.38
MW-19	10/14/02	3797.21	16.26	0	3780.95
MW-19	04/15/03	3797.21	18.87	0	3778.34
MW-19	10/14/03	3797.21	18.92	0	3778.29
MW-19	04/05/04	3797.21	18.94	0	3778.27
MW-19	10/05/04	3797.21	16.11	0	3781.10
MW-19	04/19/05	3797.21	17.42	0	3779.79
MW-19	10/24/05	3797.21	17.46	0	3779.75
MW-19	04/18/06	3797.21	18.85	0	3778.36
MW-19	10/11/06	3797.21	16.11	0	3781.10
MW-19	04/16/07	3797.21	18.81	0	3778.40
MW-19	10/22/07	3797.21	17.61	0	3779.60
MW-19	03/24/09	PLUGGED AND ABANDONED			
MW-20	12/01/91	3797.59	9.68	0	3787.91
MW-20	01/27/98	3797.59	D	--	--
MW-20	06/17/98	3797.59	D	--	--
MW-20	01/05/00	3797.59	16.08	0	3781.51
MW-20	04/26/00	3797.59	D	--	--
MW-20	09/27/00	3797.59	D	--	--
MW-20	04/16/01	3797.59	D	--	--
MW-20	10/29/01	3797.59	D	--	--
MW-20	04/15/02	3797.59	D	--	--
MW-20	10/14/02	3797.59	D	--	--
MW-20	03/29/03	PLUGGED AND ABANDONED			
MW-21	12/01/91	3798.21	9.68	0	3788.53
MW-21	04/01/93	3798.21	22.63	0	3775.58
MW-21	07/01/93	3798.21	22.88	0	3775.33
MW-21	10/01/93	3798.21	23.13	0	3775.08
MW-21	01/27/98	3798.21	23.03	0	3775.18
MW-21	06/16/98	3798.21	D	--	--
MW-21	01/05/00	3798.21	22.89	0	3775.32
MW-21	04/26/00	3798.21	23.03	0	3775.18
MW-21	09/27/00	3798.21	23.04	0	3775.17
MW-21	04/16/01	3798.21	22.80	0	3775.41
MW-21	10/29/01	3798.21	22.31	0	3775.90
MW-21	04/15/02	3798.21	22.98	0	3775.23
MW-21	10/14/02	3798.21	16.02	0	3782.19
MW-21	03/29/03	PLUGGED AND ABANDONED			
MW-22	12/01/91	3799.20	9.68	0	3789.52
MW-22	04/15/92	3799.20	17.16	0	3782.04
MW-22	07/01/92	3799.20	17.07	0	3782.13
MW-22	10/01/92	3799.20	17.29	0	3781.91
MW-22	01/01/93	3799.20	17.29	0	3781.91
MW-22	04/01/93	3799.20	17.29	0	3781.91
MW-22	01/27/98	3799.20	17.20	0	3782.00
MW-22	06/16/98	3799.20	D	--	--
MW-22	01/05/00	3799.20	17.19	0	3782.01
MW-22	04/26/00	3799.20	17.32	0	3781.88
MW-22	09/27/00	3799.20	17.37	0	3781.83
MW-22	04/16/01	3799.20	17.40	0	3781.80
MW-22	10/29/01	3799.20	D	--	--
MW-22	04/15/02	3799.20	D	--	--
MW-22	10/14/02	3799.20	D	--	--
MW-22	04/15/03	3799.20	17.21	0	3781.99
MW-22	10/14/03	3799.20	17.25	0	3781.95
MW-22	04/05/04	3799.20	17.21	0	3781.99
MW-22	10/05/04	3799.20	17.17	0	3782.03
MW-22	04/19/05	3799.20	17.21	0	3781.99
MW-22	10/24/05	3799.20	17.17	0	3782.03
MW-22	04/18/06	3799.20	17.19	0	3782.01
MW-22	10/11/06	3799.20	17.18	0	3782.02
MW-22	04/16/07	3799.20	17.61	0	3781.59
MW-22	10/22/07	3799.20	17.51	0	3781.69
MW-22	03/25/09	PLUGGED AND ABANDONED			
MW-23	01/28/98	3794.48	D	--	--
MW-23	06/16/98	3794.48	D	--	--
MW-23	04/26/00	3794.48	D	--	--
MW-23	09/27/00	3794.48	D	--	--
MW-23	04/16/01	3794.48	D	--	--

D = Dry
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 NG = Not Gauged
 NR = No Record

Appendix A
Historic Fluid Level Data, May 1991 - May 2009
Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-23	10/29/01	3794.48	D	--	--
MW-23	04/15/02	3794.48	D	--	--
MW-23	10/14/02	3794.48	D	--	--
MW-23	03/29/03	PLUGGED AND ABANDONED			
MW-24	12/01/91	3794.09	9.68	0	3784.41
MW-24	04/15/92	3794.09	12.90	0	3781.19
MW-24	07/01/92	3794.09	14.09	0	3780.00
MW-24	10/01/92	3794.09	12.92	0	3781.17
MW-24	01/16/96	3794.09	D	--	--
MW-24	04/19/96	3794.09	D	--	--
MW-24	07/16/96	3794.09	D	--	--
MW-24	10/13/96	3794.09	D	--	--
MW-24	01/27/98	3794.09	12.92	0	3781.17
MW-24	06/16/98	3794.09	D	--	--
MW-24	04/26/00	3794.09	12.95	0	3781.14
MW-24	09/27/00	3794.09	12.93	0	3781.16
MW-24	04/16/01	3794.09	12.97	0	3781.12
MW-24	10/29/01	3794.09	12.94	0	3781.15
MW-24	04/15/02	3794.09	12.94	0	3781.15
MW-24	10/14/02	3794.09	13.03	0	3781.06
MW-24	04/15/03	3794.09	13.01	0	3781.08
MW-24	10/14/03	3794.09	12.90	0	3781.19
MW-24	04/05/04	3794.09	13.01	0	3781.08
MW-24	10/05/04	3794.09	13.02	0	3781.07
MW-24	04/19/05	3794.09	13.06	0	3781.03
MW-24	10/24/05	3794.09	13.01	0	3781.08
MW-24	04/18/06	3794.09	13.02	0	3781.07
MW-24	10/11/06	3794.09	13.02	0	3781.07
MW-24	04/16/07	3794.09	13.03	0	3781.06
MW-24	10/22/07	3794.09	13.02	0	3781.07
MW-24	03/25/09	PLUGGED AND ABANDONED			
MW-25	01/28/98	3786.97	D	--	--
MW-25	06/16/98	3786.97	D	--	--
MW-25	04/26/00	3786.97	D	--	--
MW-25	09/27/00	3786.97	D	--	--
MW-25	04/16/01	3786.97	D	--	--
MW-25	10/29/01	3786.97	D	--	--
MW-25	04/15/02	3786.97	D	--	--
MW-25	10/14/02	3786.97	D	--	--
MW-25	03/29/03	PLUGGED AND ABANDONED			
MW-26	12/01/91	3793.01	9.68	0	3783.33
MW-26	07/01/92	3793.01	16.37	0	3776.64
MW-26	10/01/92	3793.01	19.66	0	3773.35
MW-26	01/01/93	3793.01	20.41	0	3772.60
MW-26	04/01/93	3793.01	20.72	0	3772.29
MW-26	07/01/93	3793.01	20.77	0	3772.24
MW-26	10/01/93	3793.01	20.78	0	3772.23
MW-26	01/01/94	3793.01	20.77	0	3772.24
MW-26	06/17/98	3793.01	D	--	--
MW-26	01/05/00	3793.01	20.77	0	3772.24
MW-26	04/26/00	3793.01	20.77	0	3772.24
MW-26	09/27/00	3793.01	20.80	0	3772.21
MW-26	04/16/01	3793.01	20.00	0	3773.01
MW-26	10/29/01	3793.01	21.06	0	3771.95
MW-26	04/15/02	3793.01	D	--	--
MW-26	10/14/02	3793.01	D	--	--
MW-26	04/15/03	3793.01	20.05	0	3772.96
MW-26	10/14/03	3793.01	21.07	0	3771.94
MW-26	04/05/04	3793.01	20.14	0	3772.87
MW-26	10/05/04	3793.01	19.86	0	3773.15
MW-26	04/19/05	3793.01	19.80	0	3773.21
MW-26	10/24/05	3793.01	19.49	0	3773.52
MW-26	04/18/06	3793.01	20.13	0	3772.88
MW-26	10/11/06	3793.01	17.76	0	3775.25
MW-26	04/17/07	3793.01	20.11	0	3772.90
MW-26	10/22/07	3793.01	20.16	0	3772.85
MW-26	04/07/09	PLUGGED AND ABANDONED			
MW-27	01/28/98	3790.93	D	--	--
MW-27	06/16/98	3790.93	D	--	--
MW-27	04/26/00	3790.93	D	--	--
MW-27	09/27/00	3790.93	D	--	--
MW-27	04/16/01	3790.93	D	--	--
MW-27	10/29/01	3790.93	D	--	--

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Appendix A
Historic Fluid Level Data, May 1991 - May 2009
Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-27	04/15/02	3790.93	D	--	--
MW-27	10/14/02	3790.93	D	--	--
MW-27	03/25/03	PLUGGED AND ABANDONED			
MW-28	12/01/91	3797.03	19.23	0	3777.80
MW-28	01/27/98	3797.03	18.48	0	3778.55
MW-28	06/16/98	3797.03	D	--	--
MW-28	01/05/00	3797.03	19.11	0	3777.92
MW-28	04/26/00	3797.03	19.09	0	3777.94
MW-28	09/27/00	3797.03	D	--	--
MW-28	04/16/01	3797.03	19.11	--	3777.92
MW-28	10/29/01	3797.03	D	--	--
MW-28	04/15/02	3797.03	D	--	--
MW-28	10/14/02	3797.03	D	--	--
MW-28	03/29/03	PLUGGED AND ABANDONED			
MW-29	01/16/96	3794.06	D	--	--
MW-29	04/19/96	3794.06	D	--	--
MW-29	07/16/96	3794.06	D	--	--
MW-29	10/13/96	3794.06	D	--	--
MW-29	01/28/98	3794.06	D	--	--
MW-29	06/16/98	3794.06	D	--	--
MW-29	04/26/00	3794.06	D	--	--
MW-29	09/27/00	3794.06	D	--	--
MW-29	04/16/01	3794.06	D	--	--
MW-29	10/29/01	3794.06	D	--	--
MW-29	04/15/02	3794.06	D	--	--
MW-29	10/14/02	3794.06	D	--	--
MW-29	03/29/03	PLUGGED AND ABANDONED			
MW-30	12/01/91	3788.30	14.75	0	3773.55
MW-30	01/28/98	3788.30	D	--	--
MW-30	06/16/98	3788.30	D	--	--
MW-30	04/26/00	3788.30	D	--	--
MW-30	09/27/00	3788.30	D	--	--
MW-30	04/16/01	3788.30	D	--	--
MW-30	10/29/01	3788.30	D	--	--
MW-30	04/15/02	3788.30	D	--	--
MW-30	10/14/02	3788.30	D	--	--
MW-30	03/29/03	PLUGGED AND ABANDONED			
MW-31	12/01/91	3791.15	18.85	0	3772.30
MW-31	04/15/92	3791.15	19.00	0	3772.15
MW-31	07/01/92	3791.15	18.50	0	3772.65
MW-31	10/01/92	3791.15	19.00	0	3772.15
MW-31	01/01/93	3791.15	19.44	0	3771.71
MW-31	04/01/93	3791.15	19.64	0	3771.51
MW-31	01/28/98	3791.15	19.03	0	3772.12
MW-31	06/16/98	3791.15	D	--	--
MW-31	01/05/00	3791.15	19.06	0	3772.09
MW-31	04/26/00	3791.15	19.03	0	3772.12
MW-31	09/27/00	3791.15	19.04	0	3772.11
MW-31	04/16/01	3791.15	19.04	0	3772.11
MW-31	10/29/01	3791.15	19.05	0	3772.10
MW-31	04/15/02	3791.15	18.98	0	3772.17
MW-31	10/14/02	3791.15	18.98	0	3772.17
MW-31	03/29/03	PLUGGED AND ABANDONED			
MW-32	07/01/92	3797.47	15.35	0	3782.12
MW-32	01/16/96	3797.47	D	--	--
MW-32	04/19/96	3797.47	D	--	--
MW-32	07/15/96	3797.47	D	--	--
MW-32	10/13/96	3797.47	D	--	--
MW-32	01/27/98	3797.47	15.70	0	3781.77
MW-32	06/16/98	3797.47	D	--	--
MW-32	04/26/00	3797.47	15.65	0	3781.82
MW-32	09/27/00	3797.47	D	--	--
MW-32	04/16/01	3797.47	15.69	0	3781.78
MW-32	10/29/01	3797.47	D	--	--
MW-32	04/15/02	3797.47	D	--	--
MW-32	10/14/02	3797.47	D	--	--
MW-32	04/15/03	3797.47	16.90	0	3780.57
MW-32	10/14/03	3797.47	15.71	0	3781.76
MW-32	04/05/04	3797.47	15.69	0	3781.78
MW-32	10/05/04	3797.47	15.59	0	3781.88
MW-32	04/19/05	3797.47	15.68	0	3781.79
MW-32	10/24/05	3797.47	15.61	0	3781.86

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Appendix A
Historic Fluid Level Data, May 1991 - May 2009
Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-32	04/18/06	3797.47	16.54	0	3780.93
MW-32	10/11/06	3797.47	16.62	0	3780.85
MW-32	04/17/07	3797.47	15.68	0	3781.79
MW-32	10/22/07	3797.47	15.69	0	3781.78
MW-32	03/25/09	PLUGGED AND ABANDONED			
MW-33	12/01/91	3802.48	19.02	0	3783.46
MW-33	01/01/93	3802.48	19.91	0	3782.57
MW-33	07/01/93	3802.48	19.91	0	3782.57
MW-33	01/27/98	3802.48	19.91	0	3782.57
MW-33	06/16/98	3802.48	19.97	0	3782.51
MW-33	01/05/00	3802.48	19.94	0	3782.54
MW-33	04/26/00	3802.48	19.92	0	3782.56
MW-33	09/27/00	3802.48	19.92	0	3782.56
MW-33	04/16/01	3802.48	19.92	0	3782.56
MW-33	10/29/01	3802.48	19.94	0	3782.54
MW-33	04/15/02	3802.48	19.98	0	3782.50
MW-33	10/15/02	3802.48	17.66	0	3784.82
MW-33	03/29/03	PLUGGED AND ABANDONED			
MW-34	12/01/91	3806.00	19.72	0	3786.28
MW-34	01/27/98	3806.00	D	--	--
MW-34	06/16/98	3806.00	D	--	--
MW-34	01/05/00	3806.00	19.81	0	3786.19
MW-34	04/26/00	3806.00	19.77	0	3786.23
MW-34	09/27/00	3806.00	D	--	--
MW-34	04/16/01	3806.00	19.80	0	3786.20
MW-34	10/29/01	3806.00	19.85	0	3786.15
MW-34	04/15/02	3806.00	19.81	0	3786.19
MW-34	10/14/02	3806.00	19.69	0	3786.31
MW-34	03/29/03	PLUGGED AND ABANDONED			
MW-35	12/01/91	3800.81	18.24	0	3782.57
MW-35	07/01/93	3800.81	19.77	0	3781.04
MW-35	10/01/93	3800.81	19.81	0	3781.00
MW-35	01/01/94	3800.81	20.09	0	3780.72
MW-35	01/27/98	3800.81	20.10	0	3780.71
MW-35	06/16/98	3800.81	20.57	0	3780.24
MW-35	01/05/00	3800.81	19.78	0	3781.03
MW-35	04/26/00	3800.81	20.23	0	3780.58
MW-35	09/27/00	3800.81	20.58	0	3780.23
MW-35	04/16/01	3800.81	19.75	0	3781.06
MW-35	10/29/01	3800.81	19.35	0	3781.46
MW-35	04/15/02	3800.81	20.25	0	3780.56
MW-35	10/14/02	3800.81	17.02	0	3783.79
MW-35	03/29/03	PLUGGED AND ABANDONED			
MW-36	01/27/98	3792.94	D	--	--
MW-36	06/16/98	3792.94	D	--	--
MW-36	01/05/00	3792.94	D	--	--
MW-36	04/26/00	3792.94	D	--	--
MW-36	09/27/00	3792.94	D	--	--
MW-36	04/16/01	3792.94	D	--	--
MW-36	10/29/01	3792.94	D	--	--
MW-36	04/15/02	3792.94	D	--	--
MW-36	10/15/02	3792.94	D	--	--
MW-36	03/29/03	PLUGGED AND ABANDONED			
MW-37	12/01/91	3795.03	11.72	0	3783.31
MW-37	04/01/93	3795.03	19.96	0	3775.07
MW-37	07/01/93	3795.03	20.11	0	3774.92
MW-37	10/01/93	3795.03	20.19	0	3774.84
MW-37	01/01/94	3795.03	20.21	0	3774.82
MW-37	01/27/98	3795.03	19.37	0	3775.66
MW-37	06/16/98	3795.03	19.82	0	3775.21
MW-37	01/05/00	3795.03	17.58	0	3777.45
MW-37	04/26/00	3795.03	18.29	0	3776.74
MW-37	09/27/00	3795.03	19.25	0	3775.78
MW-37	04/16/01	3795.03	17.30	0	3777.73
MW-37	10/29/01	3795.03	18.72	0	3776.31
MW-37	04/15/02	3795.03	17.72	0	3777.31
MW-37	10/14/02	3795.03	16.89	0	3778.14
MW-37	03/29/03	PLUGGED AND ABANDONED			
MW-38	12/01/91	3797.32	13.48	0	3783.84
MW-38	04/15/92	3797.32	16.54	0	3780.78
MW-38	07/01/92	3797.32	12.42	0	3784.90

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 Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-38	10/01/92	3797.32	17.66	0	3779.66
MW-38	01/01/93	3797.32	20.24	0	3777.08
MW-38	04/01/93	3797.32	20.42	0	3776.90
MW-38	07/01/93	3797.32	20.23	0	3777.09
MW-38	10/01/93	3797.32	20.30	0	3777.02
MW-38	01/16/96	3797.32	D	--	--
MW-38	04/19/96	3797.32	D	--	--
MW-38	07/15/96	3797.32	D	--	--
MW-38	10/13/96	3797.32	16.54	0	3780.78
MW-38	02/03/97	3797.32	19.96	0	3777.36
MW-38	04/28/97	3797.32	20.30	0	3777.02
MW-38	07/15/97	3797.32	20.38	0	3776.94
MW-38	10/13/97	3797.32	20.22	0	3777.10
MW-38	01/27/98	3797.32	20.18	0	3777.14
MW-38	04/27/98	3797.32	20.32	0	3777.00
MW-38	06/16/98	3797.32	D	--	--
MW-38	10/09/98	3797.32	20.41	0	3776.91
MW-38	01/27/99	3797.32	19.78	0	3777.54
MW-38	04/19/99	3797.32	20.01	0	3777.31
MW-38	01/05/00	3797.32	19.41	0	3777.91
MW-38	04/26/00	3797.32	19.29	0	3778.03
MW-38	09/27/00	3797.32	20.31	0	3777.01
MW-38	04/16/01	3797.32	19.33	0	3777.99
MW-38	10/29/01	3797.32	20.26	0	3777.06
MW-38	04/15/02	3797.32	19.75	0	3777.57
MW-38	10/14/02	3797.32	19.08	0	3778.24
MW-38	03/29/03	PLUGGED AND ABANDONED			
MW-39	12/01/91	3796.20	13.05	0	3783.15
MW-39	01/01/93	3796.20	17.15	0	3779.05
MW-39	04/01/93	3796.20	22.32	0	3773.88
MW-39	07/01/93	3796.20	17.78	0	3778.42
MW-39	10/01/93	3796.20	18.10	0	3778.10
MW-39	01/01/94	3796.20	18.72	0	3777.48
MW-39	04/01/94	3796.20	19.07	0	3777.13
MW-39	07/01/94	3796.20	19.29	0	3776.91
MW-39	10/01/94	3796.20	19.23	0	3776.97
MW-39	01/01/95	3796.20	19.57	0	3776.63
MW-39	04/01/95	3796.20	19.84	0	3776.36
MW-39	07/01/95	3796.20	19.84	0	3776.36
MW-39	10/01/95	3796.20	20.03	0	3776.17
MW-39	01/16/96	3796.20	20.29	0	3775.91
MW-39	04/19/96	3796.20	20.32	0	3775.88
MW-39	07/15/96	3796.20	20.30	0	3775.90
MW-39	10/13/96	3796.20	15.70	0	3780.50
MW-39	02/03/97	3796.20	17.11	0	3779.09
MW-39	04/28/97	3796.20	17.44	0	3778.76
MW-39	07/14/97	3796.20	17.41	0	3778.79
MW-39	10/13/97	3796.20	18.60	0	3777.60
MW-39	01/27/98	3796.20	19.20	0	3777.00
MW-39	04/27/98	3796.20	19.25	0	3776.95
MW-39	06/16/98	3796.20	19.41	0	3776.79
MW-39	10/09/98	3796.20	20.04	0	3776.16
MW-39	01/27/99	3796.20	20.04	0	3776.16
MW-39	04/19/99	3796.20	20.03	0	3776.17
MW-39	01/05/00	3796.20	D	--	--
MW-39	04/26/00	3796.20	D	--	--
MW-39	09/27/00	3796.20	D	--	--
MW-39	04/16/01	3796.20	D	--	--
MW-39	10/29/01	3796.20	D	--	--
MW-39	04/15/02	3796.20	D	--	--
MW-39	10/14/02	3796.20	D	--	--
MW-39	03/29/03	PLUGGED AND ABANDONED			
MW-40	04/01/93	3803.12	18.68	0	3784.44
MW-40	01/27/98	3803.12	D	--	--
MW-40	06/16/98	3803.12	D	--	--
MW-40	04/26/00	3803.12	D	--	--
MW-40	09/27/00	3803.12	D	--	--
MW-40	04/16/01	3803.12	D	--	--
MW-40	10/29/01	3803.12	D	--	--
MW-40	04/15/02	3803.12	D	--	--
MW-40	10/14/02	3803.12	D	--	--
MW-40	03/29/03	PLUGGED AND ABANDONED			
MW-41	12/01/91	3799.04	14.61	0	3784.43
MW-41	01/01/93	3799.04	19.18	0	3779.86

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Appendix A
 Historic Fluid Level Data, May 1991 - May 2009
 Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-41	07/01/93	3799.04	19.28	0	3779.76
MW-41	10/01/93	3799.04	19.74	0	3779.30
MW-41	01/01/94	3799.04	19.82	0	3779.22
MW-41	04/01/94	3799.04	21.19	0	3777.85
MW-41	07/01/94	3799.04	20.52	0	3778.52
MW-41	10/01/94	3799.04	19.60	0	3779.44
MW-41	01/01/95	3799.04	19.87	0	3779.17
MW-41	04/01/95	3799.04	19.82	0	3779.22
MW-41	07/01/95	3799.04	19.82	0	3779.22
MW-41	10/01/95	3799.04	20.58	0	3778.46
MW-41	01/16/96	3799.04	20.06	0	3778.98
MW-41	04/19/96	3799.04	20.10	0	3778.94
MW-41	07/15/96	3799.04	20.06	0	3778.98
MW-41	10/13/96	3799.04	19.02	0	3780.02
MW-41	02/03/97	3799.04	18.98	0	3780.06
MW-41	03/18/97	3799.04	19.09	0	3779.95
MW-41	04/28/97	3799.04	18.98	0	3780.06
MW-41	07/14/97	3799.04	18.85	0	3780.19
MW-41	04/27/98	3799.04	19.26	0	3779.78
MW-41	06/17/98	3799.04	19.37	0	3779.67
MW-41	10/09/98	3799.04	19.18	0	3779.86
MW-41	01/27/99	3799.04	18.72	0	3780.32
MW-41	04/19/99	3799.04	18.81	0	3780.23
MW-41	01/05/00	3799.04	18.61	0	3780.43
MW-41	04/26/00	3799.04	18.72	0	3780.32
MW-41	09/27/00	3799.04	18.84	0	3780.20
MW-41	04/16/01	3799.04	18.55	0	3780.49
MW-41	10/29/01	3799.04	18.60	0	3780.44
MW-41	04/15/02	3799.04	18.38	0	3780.66
MW-41	10/14/02	3799.04	18.96	0	3780.08
MW-41	04/15/03	3799.04	19.48	0	3779.56
MW-41	10/14/03	3799.04	21.24	0	3777.80
MW-41	04/05/04	3799.04	20.00	0	3779.04
MW-41	10/05/04	3799.04	17.61	0	3781.43
MW-41	04/19/05	3799.04	18.29	0	3780.75
MW-41	10/24/05	3799.04	19.41	0	3779.63
MW-41	04/18/06	3799.04	19.89	0	3779.15
MW-41	10/11/06	3799.04	18.39	0	3780.65
MW-41	04/16/07	3799.04	19.38	0	3779.66
MW-41	10/22/07	3799.04	18.42	0	3780.62
MW-41	03/25/09	PLUGGED AND ABANDONED			
MW-42	12/01/91	3804.73	19.98	0	3784.75
MW-42	07/01/93	3804.73	22.63	0	3782.10
MW-42	10/01/93	3804.73	22.89	0	3781.84
MW-42	01/01/94	3804.73	23.13	0	3781.60
MW-42	01/27/98	3804.73	21.94	0	3782.79
MW-42	06/16/98	3804.73	D	--	--
MW-42	01/05/00	3804.73	23.50	0	3781.23
MW-42	04/26/00	3804.73	D	--	--
MW-42	09/27/00	3804.73	D	--	--
MW-42	04/16/01	3804.73	D	--	--
MW-42	10/29/01	3804.73	D	--	--
MW-42	04/15/02	3804.73	D	--	--
MW-42	10/14/02	3804.73	D	--	--
MW-42	03/29/03	PLUGGED AND ABANDONED			
MW-43	12/01/91	3802.05	17.38	0	3784.67
MW-43	07/01/93	3802.05	21.33	0	3780.72
MW-43	10/01/93	3802.05	21.18	0	3780.87
MW-43	01/01/94	3802.05	21.27	0	3780.78
MW-43	04/01/94	3802.05	22.38	0	3779.67
MW-43	07/01/94	3802.05	21.41	0	3780.64
MW-43	10/01/94	3802.05	21.41	0	3780.64
MW-43	01/01/95	3802.05	21.44	0	3780.61
MW-43	04/01/95	3802.05	21.53	0	3780.52
MW-43	07/01/95	3802.05	21.53	0	3780.52
MW-43	10/01/95	3802.05	21.80	0	3780.25
MW-43	01/16/96	3802.05	21.75	0	3780.30
MW-43	04/19/96	3802.05	21.70	0	3780.35
MW-43	07/15/96	3802.05	21.44	0	3780.61
MW-43	10/13/96	3802.05	20.13	0	3781.92
MW-43	02/03/97	3802.05	20.71	0	3781.34
MW-43	04/28/97	3802.05	20.49	0	3781.56
MW-43	07/14/97	3802.05	20.39	0	3781.66
MW-43	10/13/97	3802.05	20.78	0	3781.27
MW-43	01/27/98	3802.05	20.55	0	3781.50

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Appendix A
 Historic Fluid Level Data, May 1991 - May 2009
 Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-43	04/27/98	3802.05	20.72	0	3781.33
MW-43	06/16/98	3802.05	20.89	0	3781.16
MW-43	10/09/98	3802.05	21.16	0	3780.89
MW-43	01/27/99	3802.05	20.40	0	3781.65
MW-43	04/19/99	3802.05	20.55	0	3781.50
MW-43	01/05/00	3802.05	20.58	0	3781.47
MW-43	04/26/00	3802.05	20.65	0	3781.40
MW-43	09/27/00	3802.05	20.83	0	3781.22
MW-43	04/16/01	3802.05	20.55	0	3781.50
MW-43	10/29/01	3802.05	20.43	0	3781.62
MW-43	04/15/02	3802.05	20.51	0	3781.54
MW-43	10/14/02	3802.05	20.72	0	3781.33
MW-43	04/15/03	3802.05	21.04	0	3781.01
MW-43	10/14/03	3802.05	21.68	0	3780.37
MW-43	04/05/04	3802.05	22.88	0	3779.17
MW-43	10/05/04	3802.05	19.60	0	3782.45
MW-43	04/19/05	3802.05	20.32	0	3781.73
MW-43	10/24/05	3802.05	20.97	0	3781.08
MW-43	04/18/06	3802.05	21.39	0	3780.66
MW-43	10/11/06	3802.05	19.97	0	3782.08
MW-43	04/16/07	3802.05	20.84	0	3781.21
MW-43	10/22/07	3802.05	20.40	0	3781.65
MW-43	03/24/09	PLUGGED AND ABANDONED			
MW-44	12/01/91	3804.14	17.85	0	3786.29
MW-44	04/15/92	3804.14	19.40	0	3784.74
MW-44	07/01/92	3804.14	17.27	0	3786.87
MW-44	10/01/92	3804.14	20.28	0	3783.86
MW-44	01/01/93	3804.14	21.20	0	3782.94
MW-44	04/01/93	3804.14	21.48	0	3782.66
MW-44	07/01/93	3804.14	21.63	0	3782.51
MW-44	10/01/93	3804.14	21.58	0	3782.56
MW-44	01/01/94	3804.14	21.68	0	3782.46
MW-44	04/01/94	3804.14	22.02	0	3782.12
MW-44	07/01/94	3804.14	22.13	0	3782.01
MW-44	10/01/94	3804.14	21.58	0	3782.56
MW-44	01/01/95	3804.14	21.88	0	3782.26
MW-44	04/01/95	3804.14	22.26	0	3781.88
MW-44	07/01/95	3804.14	22.26	0	3781.88
MW-44	10/01/95	3804.14	21.84	0	3782.30
MW-44	01/16/96	3804.14	21.86	0	3782.28
MW-44	04/19/96	3804.14	21.88	0	3782.26
MW-44	07/15/96	3804.14	21.75	0	3782.39
MW-44	10/13/96	3804.14	19.32	0	3784.82
MW-44	02/03/97	3804.14	20.79	0	3783.35
MW-44	04/28/97	3804.14	20.43	0	3783.71
MW-44	07/14/97	3804.14	20.31	0	3783.83
MW-44	10/13/97	3804.14	20.73	0	3783.41
MW-44	01/27/98	3804.14	20.66	0	3783.48
MW-44	04/27/98	3804.14	20.84	0	3783.30
MW-44	06/16/98	3804.14	21.04	0	3783.10
MW-44	10/09/98	3804.14	20.71	0	3783.43
MW-44	01/27/99	3804.14	20.01	0	3784.13
MW-44	04/19/99	3804.14	20.41	0	3783.73
MW-44	01/05/00	3804.14	19.96	0	3784.18
MW-44	04/26/00	3804.14	20.27	0	3783.87
MW-44	09/27/00	3804.14	20.39	0	3783.75
MW-44	04/16/01	3804.14	19.85	0	3784.29
MW-44	10/29/01	3804.14	19.78	0	3784.36
MW-44	04/15/02	3804.14	20.03	0	3784.11
MW-44	10/14/02	3804.14	20.43	0	3783.71
MW-44	03/29/03	PLUGGED AND ABANDONED			
MW-45	12/01/91	3808.68	13.91	0	3794.77
MW-45	07/01/93	3808.68	21.49	0	3787.19
MW-45	10/01/93	3808.68	21.47	0	3787.21
MW-45	01/01/94	3808.68	21.54	0	3787.14
MW-45	04/01/94	3808.68	22.64	0	3786.04
MW-45	07/01/94	3808.68	21.85	0	3786.83
MW-45	10/01/94	3808.68	21.52	0	3787.16
MW-45	01/01/95	3808.68	21.78	0	3786.90
MW-45	04/01/95	3808.68	22.13	0	3786.55
MW-45	07/01/95	3808.68	22.13	0	3786.55
MW-45	01/05/00	3808.68	18.88	0	3789.80
MW-45	04/26/00	3808.68	19.19	0	3789.49
MW-45	09/27/00	3808.68	19.19	0	3789.49
MW-45	04/16/01	3808.68	18.39	0	3790.29

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Appendix A
 Historic Fluid Level Data, May 1991 - May 2009
 Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-45	10/29/01	3808.68	18.53	0	3790.15
MW-45	04/15/02	3808.68	18.75	0	3789.93
MW-45	10/14/02	3808.68	18.39	0	3790.29
MW-45	04/15/2003	3808.68	21.36	0	3787.32
MW-45	10/14/2003	3808.68	21.35	0	3787.33
MW-45	04/05/04	3808.68	21.69	0	3786.99
MW-45	10/05/04	3808.68	14.09	0	3794.59
MW-45	04/19/05	3808.68	16.94	0	3791.74
MW-45	10/24/05	3808.68	20.09	0	3788.59
MW-45	04/18/06	3808.68	20.72	0	3787.96
MW-45	10/11/06	3808.68	16.40	0	3792.28
MW-45	04/16/07	3808.68	19.98	0	3788.70
MW-45	10/22/07	3808.68	15.95	0	3792.73
MW-45	05/27/09	3808.68	21.56	0	3787.12
MW-46	10/01/93	3805.54	19.87	0	3785.67
MW-46	01/01/94	3805.54	19.42	0	3786.12
MW-46	04/01/94	3805.54	19.59	0	3785.95
MW-46	10/01/94	3805.54	19.20	0	3786.34
MW-46	04/01/95	3805.54	19.55	0	3785.99
MW-46	07/01/95	3805.54	19.55	0	3785.99
MW-46	01/16/96	3805.54	19.48	0	3786.06
MW-46	04/19/96	3805.54	19.52	0	3786.02
MW-46	07/15/96	3805.54	19.41	0	3786.13
MW-46	10/13/96	3805.54	15.73	0	3789.81
MW-46	02/04/97	3805.54	18.22	0	3787.32
MW-46	04/28/97	3805.54	16.93	0	3788.61
MW-46	07/14/97	3805.54	17.15	0	3788.39
MW-46	10/13/97	3805.54	18.01	0	3787.53
MW-46	01/27/98	3805.54	17.54	0	3788.00
MW-46	04/27/98	3805.54	18.34	0	3787.20
MW-46	06/16/98	3805.54	18.69	0	3786.85
MW-46	10/10/98	3805.54	17.82	0	3787.72
MW-46	01/27/99	3805.54	16.91	0	3788.63
MW-46	04/19/99	3805.54	17.44	0	3788.10
MW-46	01/05/00	3805.54	16.76	0	3788.78
MW-46	04/26/00	3805.54	17.17	0	3788.37
MW-46	09/27/00	3805.54	17.42	0	3788.12
MW-46	04/16/01	3805.54	16.68	0	3788.86
MW-46	10/29/01	3805.54	16.79	0	3788.75
MW-46	04/15/02	3805.54	17.49	0	3788.05
MW-46	10/14/02	3805.54	17.83	0	3787.71
MW-46	04/15/03	3805.54	19.38	0	3786.16
MW-46	10/14/03	3805.54	19.62	0	3785.92
MW-46	04/05/04	3805.54	19.63	0	3785.91
MW-46	10/05/04	3805.54	13.05	0	3792.49
MW-46	04/19/05	3805.54	16.27	0	3789.27
MW-46	10/24/05	3805.54	19.38	0	3786.16
MW-46	04/18/06	3805.54	19.35	0	3786.19
MW-46	10/11/06	3805.54	15.74	0	3789.80
MW-46	04/16/07	3805.54	19.34	0	3786.20
MW-46	10/22/07	3805.54	15.67	0	3789.87
MW-46	05/27/09	3805.54	19.38	0	3786.16
MW-47	12/01/91	3805.09	18.49	0	3786.60
MW-47	07/01/93	3805.09	21.37	0	3783.72
MW-47	01/16/96	3805.09	D	--	--
MW-47	04/19/96	3805.09	D	--	--
MW-47	07/15/96	3805.09	D	--	--
MW-47	10/13/96	3805.09	19.66	0	3785.43
MW-47	02/04/97	3805.09	21.51	0	3783.58
MW-47	04/28/97	3805.09	21.46	0	3783.63
MW-47	07/14/97	3805.09	21.54	0	3783.55
MW-47	10/13/97	3805.09	21.48	0	3783.61
MW-47	01/27/98	3805.09	21.80	0	3783.29
MW-47	04/27/98	3805.09	21.50	0	3783.59
MW-47	06/16/98	3805.09	21.62	0	3783.47
MW-47	10/10/98	3805.09	21.54	0	3783.55
MW-47	01/27/99	3805.09	21.52	0	3783.57
MW-47	04/19/99	3805.09	21.49	0	3783.60
MW-47	01/05/00	3805.09	21.62	0	3783.47
MW-47	04/26/00	3805.09	21.59	0	3783.50
MW-47	09/27/00	3805.09	21.62	0	3783.47
MW-47	04/16/01	3805.09	21.63	0	3783.46
MW-47	10/29/01	3805.09	D	--	--
MW-47	04/15/02	3805.09	D	--	--
MW-47	10/14/02	3805.09	D	--	--

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Appendix A
Historic Fluid Level Data, May 1991 - May 2009
Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-47	04/15/03	3805.09	D	--	--
MW-47	10/14/03	3805.09	21.68	0	3783.41
MW-47	04/05/04	3805.09	21.64	0	3783.45
MW-47	10/05/04	3805.09	18.04	0	3787.05
MW-47	04/19/05	3805.09	21.49	0	3783.60
MW-47	10/24/05	3805.09	21.52	0	3783.57
MW-47	04/18/06	3805.09	21.54	0	3783.55
MW-47	10/11/06	3805.09	20.12	0	3784.97
MW-47	04/16/07	3805.09	20.57	0	3784.52
MW-47	10/22/07	3805.09	21.35	0	3783.74
MW-47	03/24/09	PLUGGED AND ABANDONED			
MW-48	12/01/91	3806.18	18.05	0	3788.13
MW-48	04/15/92	3806.18	19.44	0	3786.74
MW-48	07/01/92	3806.18	17.25	0	3788.93
MW-48	10/01/92	3806.18	18.87	0	3787.31
MW-48	01/01/93	3806.18	19.58	0	3786.60
MW-48	01/16/96	3806.18	D	--	--
MW-48	04/19/96	3806.18	D	--	--
MW-48	07/15/96	3806.18	D	--	--
MW-48	10/13/96	3806.18	17.88	0	3788.30
MW-48	02/04/97	3806.18	19.60	0	3786.58
MW-48	04/28/97	3806.18	19.66	0	3786.52
MW-48	07/14/97	3806.18	19.66	0	3786.52
MW-48	10/13/97	3806.18	19.68	0	3786.50
MW-48	01/27/98	3806.18	19.71	0	3786.47
MW-48	04/27/98	3806.18	19.72	0	3786.46
MW-48	06/16/98	3806.18	19.75	0	3786.43
MW-48	10/09/98	3806.18	19.71	0	3786.47
MW-48	01/27/99	3806.18	19.74	0	3786.44
MW-48	04/19/99	3806.18	19.71	0	3786.47
MW-48	01/05/00	3806.18	19.77	0	3786.41
MW-48	04/26/00	3806.18	19.72	0	3786.46
MW-48	09/27/00	3806.18	D	--	--
MW-48	04/16/01	3806.18	19.78	0	3786.40
MW-48	10/29/01	3806.18	D	--	--
MW-48	04/15/02	3806.18	D	--	--
MW-48	10/14/02	3806.18	D	--	--
MW-48	04/15/03	3806.18	19.69	0	3786.49
MW-48	10/14/03	3806.18	19.70	0	3786.48
MW-48	04/05/04	3806.18	19.63	0	3786.55
MW-48	10/05/04	3806.18	18.81	0	3787.37
MW-48	04/19/05	3806.18	19.62	0	3786.56
MW-48	10/24/05	3806.18	19.62	0	3786.56
MW-48	04/18/06	3806.18	19.70	0	3786.48
MW-48	10/11/06	3806.18	18.05	0	3788.13
MW-48	04/16/07	3806.18	19.87	0	3786.31
MW-48	10/22/07	3806.18	D	--	--
MW-48	03/25/09	PLUGGED AND ABANDONED			
MW-49	12/01/91	3805.61	16.60	0	3789.01
MW-49	07/01/93	3805.61	21.98	0	3783.63
MW-49	10/01/93	3805.61	21.93	0	3783.68
MW-49	01/01/94	3805.61	22.27	0	3783.34
MW-49	04/01/94	3805.61	22.64	0	3782.97
MW-49	07/01/94	3805.61	22.73	0	3782.88
MW-49	10/01/94	3805.61	22.30	0	3783.31
MW-49	01/01/95	3805.61	22.56	0	3783.05
MW-49	04/01/95	3805.61	22.94	0	3782.67
MW-49	07/01/95	3805.61	22.94	0	3782.67
MW-49	10/01/95	3805.61	22.68	0	3782.93
MW-49	01/16/96	3805.61	22.55	0	3783.06
MW-49	04/19/96	3805.61	22.59	0	3783.02
MW-49	07/15/96	3805.61	22.76	0	3782.85
MW-49	10/13/96	3805.61	19.54	0	3786.07
MW-49	02/03/97	3805.61	20.66	0	3784.95
MW-49	03/18/97	3805.61	20.99	0	3784.62
MW-49	04/28/97	3805.61	20.70	0	3784.91
MW-49	07/14/97	3805.61	20.31	0	3785.30
MW-49	10/13/97	3805.61	21.01	0	3784.60
MW-49	01/27/98	3805.61	21.08	0	3784.53
MW-49	04/27/98	3805.61	21.34	0	3784.27
MW-49	06/16/98	3805.61	21.35	0	3784.26
MW-49	10/09/98	3805.61	22.52	0	3783.09
MW-49	01/27/99	3805.61	20.50	0	3785.11
MW-49	04/19/99	3805.61	20.81	0	3784.80
MW-49	01/05/00	3805.61	20.07	0	3785.54

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Appendix A
Historic Fluid Level Data, May 1991 - May 2009
Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-49	04/26/00	3805.61	20.30	0	3785.31
MW-49	09/27/00	3805.61	20.52	0	3785.09
MW-49	04/16/01	3805.61	20.03	0	3785.58
MW-49	10/29/01	3805.61	19.96	0	3785.65
MW-49	04/15/02	3805.61	19.76	0	3785.85
MW-49	10/14/02	3805.61	20.56	0	3785.05
MW-49	04/15/03	3805.61	22.08	0	3783.53
MW-49	10/14/03	3805.61	22.52	0	3783.09
MW-49	04/05/04	3805.61	22.79	0	3782.82
MW-49	10/05/04	3805.61	18.33	0	3787.28
MW-49	04/19/05	3805.61	18.23	0	3787.38
MW-49	10/24/05	3805.61	21.01	0	3784.60
MW-49	04/18/06	3805.61	22.29	0	3783.32
MW-49	10/11/06	3805.61	20.49	0	3785.12
MW-49	04/16/07	3805.61	21.43	0	3784.18
MW-49	10/22/07	3805.61	18.81	0	3786.80
MW-49	05/27/09	3805.61	22.35	0	3783.26
MW-50	12/01/91	3813.35	20.74	0	3792.61
MW-50	04/15/92	3813.35	22.83	0	3790.52
MW-50	07/01/92	3813.35	15.91	0	3797.44
MW-50	10/01/92	3813.35	23.77	0	3789.58
MW-50	01/01/93	3813.35	25.52	0	3787.83
MW-50	04/01/93	3813.35	26.16	0	3787.19
MW-50	07/01/93	3813.35	26.43	0	3786.92
MW-50	10/01/93	3813.35	26.43	0	3786.92
MW-50	01/01/94	3813.35	26.83	0	3786.52
MW-50	04/01/94	3813.35	27.04	0	3786.31
MW-50	07/01/94	3813.35	27.16	0	3786.19
MW-50	10/01/94	3813.35	26.87	0	3786.48
MW-50	01/01/95	3813.35	27.03	0	3786.32
MW-50	04/01/95	3813.35	27.37	0	3785.98
MW-50	07/01/95	3813.35	27.37	0	3785.98
MW-50	10/01/95	3813.35	26.85	0	3786.50
MW-50	01/16/96	3813.35	27.20	0	3786.15
MW-50	04/19/96	3813.35	27.22	0	3786.13
MW-50	07/15/96	3813.35	27.04	0	3786.31
MW-50	10/13/96	3813.35	25.89	0	3787.46
MW-50	02/03/97	3813.35	25.15	0	3788.20
MW-50	03/18/97	3813.35	25.18	0	3788.17
MW-50	04/28/97	3813.35	24.81	0	3788.54
MW-50	07/14/97	3813.35	24.56	0	3788.79
MW-50	10/13/97	3813.35	25.45	0	3787.90
MW-50	01/27/98	3813.35	25.39	0	3787.96
MW-50	04/27/98	3813.35	25.84	0	3787.51
MW-50	06/16/98	3813.35	26.05	0	3787.30
MW-50	10/09/98	3813.35	25.80	0	3787.55
MW-50	01/27/99	3813.35	24.78	0	3788.57
MW-50	04/19/99	3813.35	25.21	0	3788.14
MW-50	01/05/00	3813.35	24.39	0	3788.96
MW-50	04/26/00	3813.35	25.00	0	3788.35
MW-50	09/27/00	3813.35	25.06	0	3788.29
MW-50	04/16/01	3813.35	24.30	0	3789.05
MW-50	10/29/01	3813.35	24.42	0	3788.93
MW-50	04/15/02	3813.35	24.43	0	3788.92
MW-50	10/14/02	3813.35	24.76	0	3788.59
MW-50	04/15/03	3813.35	26.69	0	3786.66
MW-50	10/14/03	3813.35	27.17	0	3786.18
MW-50	04/05/04	3813.35	27.59	0	3785.76
MW-50	10/05/04	3813.35	22.27	0	3791.08
MW-50	04/19/05	3813.35	23.48	0	3789.87
MW-50	10/24/05	3813.35	26.37	0	3786.98
MW-50	04/18/06	3813.35	27.17	0	3786.18
MW-50	10/11/06	3813.35	23.79	0	3789.56
MW-50	04/16/07	3813.35	26.35	0	3787.00
MW-50	10/22/07	3813.35	23.19	0	3790.16
MW-50	03/25/09	PLUGGED AND ABANDONED			
MW-51	12/01/91	3810.86	17.77	0	3793.09
MW-51	04/26/00	3810.86	NR	--	--
MW-51	09/27/00	3810.86	D	--	--
MW-51	04/16/01	3810.86	D	--	--
MW-51	10/29/01	3810.86	D	--	--
MW-51	04/15/02	3810.86	D	--	--
MW-51	10/14/02	3810.86	D	--	--
MW-51	04/15/03	3810.86	NR	--	--
MW-51	10/14/03	3810.86	NR	--	--

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Appendix A
Historic Fluid Level Data, May 1991 - May 2009
Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-51	04/05/04	3810.86	NR	--	--
MW-51	10/05/04	3810.86	NR	--	--
MW-51	04/19/05	3810.86	NR	--	--
MW-51	10/24/05	3810.86	NR	--	--
MW-51	04/18/06	3810.86	NR	--	--
MW-51	10/11/06	3810.86	NR	--	--
MW-51	04/18/07	3810.86	NR	--	--
MW-51	10/22/07	3810.86	NR	--	--
MW-51	03/25/09	PLUGGED AND ABANDONED			
MW-52	07/01/92	3817.49	19.00	0	3798.49
MW-52	01/16/96	3817.49	D	--	--
MW-52	04/19/96	3817.49	D	--	--
MW-52	07/15/96	3817.49	D	--	--
MW-52	10/13/96	3817.49	20.97	0	3796.52
MW-52	02/04/97	3817.49	21.31	0	3796.18
MW-52	04/28/97	3817.49	D	--	--
MW-52	07/14/97	3817.49	D	--	--
MW-52	10/13/97	3817.49	D	--	--
MW-52	01/27/98	3817.49	D	--	--
MW-52	04/27/98	3817.49	D	--	--
MW-52	06/16/98	3817.49	D	--	--
MW-52	10/09/98	3817.49	21.37	0	3796.12
MW-52	01/27/99	3817.49	D	--	--
MW-52	04/19/99	3817.49	D	--	--
MW-52	04/26/00	3817.49	D	--	--
MW-52	09/27/00	3817.49	D	--	--
MW-52	04/16/01	3817.49	D	--	--
MW-52	10/29/01	3817.49	D	--	--
MW-52	04/15/02	3817.49	D	--	--
MW-52	10/14/02	3817.49	D	--	--
MW-52	03/29/03	PLUGGED AND ABANDONED			
MW-53	01/16/96	3809.92	D	--	--
MW-53	04/19/96	3809.92	D	--	--
MW-53	07/15/96	3809.92	D	--	--
MW-53	10/13/96	3809.92	D	--	--
MW-53	01/27/98	3809.92	D	--	--
MW-53	06/16/98	3809.92	D	--	--
MW-53	04/26/00	3809.92	D	--	--
MW-53	09/27/00	3809.92	D	--	--
MW-53	04/16/01	3809.92	D	--	--
MW-53	10/29/01	3809.92	D	--	--
MW-53	04/15/02	3809.92	D	--	--
MW-53	10/14/02	3809.92	D	--	--
MW-53	03/29/03	PLUGGED AND ABANDONED			
MW-54	12/01/91	3823.86	43.80	0	3780.06
MW-54	04/15/92	3823.86	44.77	0	3779.09
MW-54	07/01/92	3823.86	44.16	0	3779.70
MW-54	10/01/92	3823.86	44.66	0	3779.20
MW-54	01/01/93	3823.86	45.54	0	3778.32
MW-54	04/01/93	3823.86	46.11	0	3777.75
MW-54	07/01/93	3823.86	46.61	0	3777.25
MW-54	10/01/93	3823.86	46.73	0	3777.13
MW-54	01/01/94	3823.86	46.34	0	3777.52
MW-54	04/01/94	3823.86	47.45	0	3776.41
MW-54	07/01/94	3823.86	47.12	0	3776.74
MW-54	10/01/94	3823.86	46.65	0	3777.21
MW-54	01/01/95	3823.86	46.59	0	3777.27
MW-54	04/01/95	3823.86	46.96	0	3776.90
MW-54	07/01/95	3823.86	46.96	0	3776.90
MW-54	10/01/95	3823.86	47.40	0	3776.46
MW-54	01/16/96	3823.86	46.79	0	3777.07
MW-54	04/17/96	3823.86	48.97	0	3774.89
MW-54	07/15/96	3823.86	48.74	0	3775.12
MW-54	10/13/96	3823.86	46.14	0	3777.72
MW-54	02/04/97	3823.86	46.06	0	3777.80
MW-54	04/28/97	3823.86	46.27	0	3777.59
MW-54	07/14/97	3823.86	46.42	0	3777.44
MW-54	10/14/97	3823.86	47.16	0	3776.70
MW-54	01/27/98	3823.86	47.27	0	3776.59
MW-54	04/27/98	3823.86	46.86	0	3777.00
MW-54	06/16/98	3823.86	47.31	0	3776.55
MW-54	10/10/98	3823.86	46.79	0	3777.07
MW-54	01/27/99	3823.86	46.19	0	3777.67
MW-54	04/19/99	3823.86	46.32	0	3777.54

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Historic Fluid Level Data, May 1991 - May 2009
Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-54	01/05/00	3823.86	45.55	0	3778.31
MW-54	04/26/00	3823.86	46.46	0	3777.40
MW-54	09/27/00	3823.86	46.31	0	3777.55
MW-54	04/16/01	3823.86	45.72	0	3778.14
MW-54	10/29/01	3823.86	45.87	0	3777.99
MW-54	04/15/02	3823.86	45.37	0	3778.49
MW-54	10/14/02	3823.86	45.92	0	3777.94
MW-54	04/15/03	3823.86	46.13	0	3777.73
MW-54	10/14/03	3823.86	46.69	0	3777.17
MW-54	04/05/04	3823.86	46.54	0	3777.32
MW-54	10/05/04	3823.86	45.50	0	3778.36
MW-54	04/19/05	3823.86	45.26	0	3778.60
MW-54	10/24/05	3823.86	46.12	0	3777.74
MW-54	04/18/06	3823.86	46.26	0	3777.60
MW-54	10/11/06	3823.86	46.04	0	3777.82
MW-54	04/17/07	3823.86	45.73	0	3778.13
MW-54	10/22/07	3823.86	45.75	0	3778.11
MW-54	03/25/09	PLUGGED AND ABANDONED			
MW-55	12/01/91	3794.40	24.43	0	3769.97
MW-55	04/15/92	3794.40	24.77	0	3769.63
MW-55	07/01/92	3794.40	21.89	0	3772.51
MW-55	10/01/92	3794.40	24.47	0	3769.93
MW-55	01/01/93	3794.40	26.57	0	3767.83
MW-55	04/01/93	3794.40	28.70	0	3765.70
MW-55	07/01/93	3794.40	30.02	0	3764.38
MW-55	10/01/93	3794.40	30.76	0	3763.64
MW-55	01/01/94	3794.40	31.15	0	3763.25
MW-55	04/01/94	3794.40	32.30	0	3762.10
MW-55	07/01/94	3794.40	31.90	0	3762.50
MW-55	10/01/94	3794.40	28.61	0	3765.79
MW-55	01/01/95	3794.40	29.50	0	3764.90
MW-55	04/01/95	3794.40	30.65	0	3763.75
MW-55	07/01/95	3794.40	30.65	0	3763.75
MW-55	10/01/95	3794.40	32.20	0	3762.20
MW-55	01/16/96	3794.40	30.74	0	3763.66
MW-55	04/17/96	3794.40	33.03	0	3761.37
MW-55	07/16/96	3794.40	28.85	0	3765.55
MW-55	10/13/96	3794.40	28.02	0	3766.38
MW-55	02/04/97	3794.40	26.43	0	3767.97
MW-55	04/29/97	3794.40	26.91	0	3767.49
MW-55	07/15/97	3794.40	26.81	0	3767.59
MW-55	10/14/97	3794.40	27.21	0	3767.19
MW-55	01/28/98	3794.40	27.38	0	3767.02
MW-55	04/27/98	3794.40	27.57	0	3766.83
MW-55	06/16/98	3794.40	28.00	0	3766.40
MW-55	10/10/98	3794.40	28.36	0	3766.04
MW-55	01/27/99	3794.40	27.68	0	3766.72
MW-55	04/19/99	3794.40	27.89	0	3766.51
MW-55	01/05/00	3794.40	27.92	0	3766.48
MW-55	04/26/00	3794.40	27.96	0	3766.44
MW-55	09/27/00	3794.40	28.41	0	3765.99
MW-55	04/16/01	3794.40	27.92	0	3766.48
MW-55	10/29/01	3794.40	28.05	0	3766.35
MW-55	04/15/02	3794.40	27.83	0	3766.57
MW-55	10/14/02	3794.40	28.03	0	3766.37
MW-55	04/15/03	3794.40	28.77	0	3765.63
MW-55	10/14/03	3794.40	31.77	0	3762.63
MW-55	04/05/04	3794.40	32.70	0	3761.70
MW-55	10/05/04	3794.40	27.76	0	3766.64
MW-55	04/19/05	3794.40	28.38	0	3766.02
MW-55	10/24/05	3794.40	27.86	0	3766.54
MW-55	04/18/06	3794.40	29.52	0	3764.88
MW-55	10/11/06	3794.40	28.45	0	3765.95
MW-55	04/17/07	3794.40	28.68	0	3765.72
MW-55	10/22/07	3794.40	28.32	0	3766.08
MW-55	04/07/09	PLUGGED AND ABANDONED			
MW-56	12/01/91	3782.45	32.58	0	3749.87
MW-56	04/15/92	3782.45	9.26	0	3773.19
MW-56	07/01/92	3782.45	31.37	0	3751.08
MW-56	10/01/92	3782.45	34.68	0	3747.77
MW-56	01/01/93	3782.45	40.40	0	3742.05
MW-56	01/16/96	3782.45	D	--	--
MW-56	04/19/96	3782.45	D	--	--
MW-56	07/16/96	3782.45	D	--	--
MW-56	10/14/96	3782.45	34.34	0	3748.11

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 Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-56	02/04/97	3782.45	37.47	0	3744.98
MW-56	03/18/97	3782.45	40.26	0	3742.19
MW-56	04/29/97	3782.45	42.34	0	3740.11
MW-56	07/15/97	3782.45	43.73	0	3738.72
MW-56	10/14/97	3782.45	D	--	--
MW-56	01/28/98	3782.45	D	--	--
MW-56	04/27/98	3782.45	D	--	--
MW-56	06/16/98	3782.45	D	--	--
MW-56	10/10/98	3782.45	D	--	--
MW-56	01/27/99	3782.45	D	--	--
MW-56	04/19/99	3782.45	43.56	0	3738.89
MW-56	01/05/00	3782.45	41.79	0	3740.66
MW-56	04/26/00	3782.45	43.49	0	3738.96
MW-56	09/27/00	3782.45	D	--	--
MW-56	04/16/01	3782.45	41.70	0	3740.75
MW-56	10/29/01	3782.45	D	--	--
MW-56	04/15/02	3782.45	D	--	--
MW-56	10/14/02	3782.45	D	--	--
MW-56	04/15/03	3782.45	43.47	0	3738.98
MW-56	10/14/03	3782.45	D	--	--
MW-56	04/05/04	3782.45	D	--	--
MW-56	10/05/04	3782.45	35.94	0	3746.51
MW-56	04/19/05	3782.45	38.11	0	3744.34
MW-56	10/24/05	3782.45	38.89	0	3743.56
MW-56	04/18/06	3782.45	43.60	0	3738.85
MW-56	10/11/06	3782.45	40.73	0	3741.72
MW-56	04/17/07	3782.45	43.56	0	3738.89
MW-56	10/22/07	3782.45	43.62	0	3738.83
MW-56	04/07/09	PLUGGED AND ABANDONED			
MW-61	01/27/99	3816.20	36.06	0	3780.14
MW-61	04/19/99	3816.20	36.88	0	3779.32
MW-61	01/05/00	3816.20	36.55	0	3779.65
MW-61	04/26/00	3816.20	37.15	0	3779.05
MW-61	09/27/00	3816.20	37.49	0	3778.71
MW-61	04/16/01	3816.20	37.26	0	3778.94
MW-61	10/29/01	3816.20	37.55	0	3778.65
MW-61	04/15/02	3816.20	37.19	0	3779.01
MW-61	10/14/02	3816.20	37.79	0	3778.41
MW-61	04/15/03	3816.20	37.53	0	3778.67
MW-61	10/14/03	3816.20	37.80	0	3778.40
MW-61	04/05/04	3816.20	37.23	0	3778.97
MW-61	10/05/04	3816.20	37.29	0	3778.91
MW-61	04/19/05	3816.20	35.60	0	3780.60
MW-61	10/24/05	3816.20	36.32	0	3779.88
MW-61	04/18/06	3816.20	31.08	0	3785.12
MW-61	10/11/06	3816.20	35.99	0	3780.21
MW-61	04/30/07	3816.2	36.16	0	3780.04
MW-61	10/22/07	3816.20	35.55	0	3780.65
MW-61	04/02/09	PLUGGED AND ABANDONED			
MW-65	12/01/91	3763.31	55.90	0	3707.41
MW-65	07/01/93	3763.31	56.34	0	3706.97
MW-65	10/01/93	3763.31	56.81	0	3706.50
MW-65	01/01/94	3763.31	56.67	0	3706.64
MW-65	07/01/94	3763.31	56.70	0	3706.61
MW-65	10/01/94	3763.31	56.20	0	3707.11
MW-65	01/01/95	3763.31	56.58	0	3706.73
MW-65	04/01/95	3763.31	57.14	0	3706.17
MW-65	07/01/95	3763.31	57.14	0	3706.17
MW-65	10/01/95	3763.31	57.07	0	3706.24
MW-65	01/16/96	3763.31	57.25	0	3706.06
MW-65	04/17/96	3763.31	57.35	0	3705.96
MW-65	07/16/96	3763.31	56.01	0	3707.30
MW-65	10/14/96	3763.31	56.92	0	3706.39
MW-65	02/04/97	3763.31	56.12	0	3707.19
MW-65	04/28/97	3763.31	56.18	0	3707.13
MW-65	07/15/97	3763.31	56.44	0	3706.87
MW-65	10/14/97	3763.31	56.22	0	3707.09
MW-65	01/28/98	3763.31	56.29	0	3707.02
MW-65	04/27/98	3763.31	56.39	0	3706.92
MW-65	06/15/98	3763.31	57.22	0	3706.09
MW-65	01/27/99	3763.31	35.01	0	3728.30
MW-65	04/19/99	3763.31	56.69	0	3706.62
MW-65	01/05/99	3763.31	56.71	0	3706.60
MW-65	04/26/00	3763.31	56.55	0	3706.76
MW-65	09/27/00	3763.31	57.81	0	3705.50

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Appendix A
 Historic Fluid Level Data, May 1991 - May 2009
 Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-65	04/16/01	3763.31	56.22	0	3707.09
MW-65	10/29/01	3763.31	56.17	0	3707.14
MW-65	04/15/02	3763.31	56.47	0	3706.84
MW-65	10/14/02	3763.31	56.11	0	3707.20
MW-65	04/15/03	3763.31	56.23	0	3707.08
MW-65	10/14/03	3763.31	57.08	0	3706.23
MW-65	04/05/04	3763.31	56.60	0	3706.71
MW-65	10/05/04	3763.31	55.98	0	3707.33
MW-65	04/19/05	3763.31	56.26	0	3707.05
MW-65	10/24/05	3763.31	56.15	0	3707.16
MW-65	04/18/06	3763.31	56.34	0	3706.97
MW-65	10/11/06	3763.31	56.14	0	3707.17
MW-65	04/17/07	3763.31	56.25	0	3707.06
MW-65	10/22/07	3763.31	56.20	0	3707.11
MW-65	04/15/09	PLUGGED AND ABANDONED			
MW-69	12/01/91	3805.11	29.38	0	3775.73
MW-69	04/15/92	3805.11	31.63	0	3773.48
MW-69	07/01/92	3805.11	24.71	0	3780.40
MW-69	10/01/92	3805.11	31.37	0	3773.74
MW-69	01/01/93	3805.11	33.61	0	3771.50
MW-69	04/01/93	3805.11	39.58	0	3765.53
MW-69	07/01/93	3805.11	41.96	0	3763.15
MW-69	10/01/93	3805.11	41.26	0	3763.85
MW-69	10/01/95	3805.11	32.51	0	3772.60
MW-69	01/20/96	3805.11	37.54	4.19	3770.62
MW-69	04/17/96	3805.11	36.60	0.26	3768.69
MW-69	07/15/96	3805.11	31.26	0.36	3774.11
MW-69	02/03/97	3805.11	34.33	3.24	3773.14
MW-69	04/28/97	3805.11	32.74	0.02	3772.38
MW-69	07/14/97	3805.11	34.34	0.02	3770.78
MW-69	10/13/97	3805.11	35.55	0	3769.56
MW-69	01/27/98	3805.11	39.44	2.45	3767.45
MW-69	04/27/98	3805.11	39.08	0	3766.03
MW-69	06/15/98	3805.11	40.77	0.79	3764.91
MW-69	01/05/00	3805.11	35.75	0.02	3769.37
MW-69	04/26/00	3805.11	37.62	0.05	3767.53
MW-69	09/27/00	3805.11	41.99	2.71	3765.10
MW-69	04/16/01	3805.11	38.81	4.01	3769.23
MW-69	10/29/01	3805.11	38.42	5.45	3770.67
MW-69	04/15/02	3805.11	42.30	5.03	3766.48
MW-69	10/14/02	3805.11	28.92	0	3776.19
MW-69	04/15/03	3805.11	33.09	0.10	3772.09
MW-69	10/14/03	3805.11	35.48	1.29	3770.57
MW-69	04/05/04	3805.11	39.21	0.02	3765.91
MW-69	10/05/04	3805.11	27.82	0	3777.29
MW-69	04/19/05	3805.11	31.81	0	3773.30
MW-69	10/24/05	3805.11	29.98	0	3775.13
MW-69	04/18/06	3805.11	35.71	0	3769.40
MW-69	10/11/06	3805.11	27.40	0	3777.71
MW-69	04/17/07	3805.11	33.47	0	3771.64
MW-69	10/22/07	3805.11	43.10	0	3762.01
MW-69	04/02/09	PLUGGED AND ABANDONED			
MW-77	01/01/95	3775.48	80.03	0	3695.45
MW-77	04/01/95	3775.48	80.04	0	3695.44
MW-77	07/01/95	3775.48	80.04	0	3695.44
MW-77	10/01/95	3775.48	79.70	0	3695.78
MW-77	01/16/96	3775.48	79.84	0	3695.64
MW-77	04/17/96	3775.48	78.95	0	3696.53
MW-77	07/16/96	3775.48	79.42	0	3696.06
MW-77	10/14/96	3775.48	80.02	0	3695.46
MW-77	02/04/97	3775.48	D	0	--
MW-77	04/29/97	3775.48	80.35	0	3695.13
MW-77	07/15/97	3775.48	80.31	0	3695.17
MW-77	10/14/97	3775.48	78.92	0	3696.56
MW-77	01/28/98	3775.48	77.00	0	3698.48
MW-77	04/27/98	3775.48	78.48	0	3697.00
MW-77	06/16/98	3775.48	75.30	0	3700.18
MW-77	10/10/98	3775.48	79.84	0	3695.64
MW-77	01/27/99	3775.48	76.41	0	3699.07
MW-77	04/19/99	3775.48	77.50	0	3697.98
MW-77	01/05/00	3775.48	79.36	0	3696.12
MW-77	04/26/00	3775.48	78.57	0	3696.91
MW-77	09/27/00	3775.48	78.86	0	3696.62
MW-77	04/16/01	3775.48	79.91	0	3695.57
MW-77	10/29/01	3775.48	79.72	0	3695.76

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Appendix A
 Historic Fluid Level Data, May 1991 - May 2009
 Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-77	04/15/02	3775.48	80.42	0	3695.06
MW-77*	10/14/02	3775.48	57.95	0	3717.53
MW-77	04/15/03	3775.48	69.95	0	3705.53
MW-77	10/14/03	3775.48	73.98	0	3701.50
MW-77	04/05/04	3775.48	79.88	0	3695.60
MW-77	10/05/04	3775.48	63.37	0	3712.11
MW-77	04/19/05	3775.48	67.06	0	3708.42
MW-77	10/24/05	3775.48	63.89	0	3711.59
MW-77	04/18/06	3775.48	80.43	0	3695.05
MW-77	10/11/06	3775.48	78.89	0	3696.59
MW-77	04/17/07	3775.48	76.32	0	3699.16
MW-77	10/22/07	3775.48	73.36	0	3702.12
MW-77	05/27/09	3775.48	D	0	--
MW-78	01/01/95	3785.82	86.51	0	3699.31
MW-78	04/01/95	3785.82	86.32	0	3699.50
MW-78	07/01/95	3785.82	86.32	0	3699.50
MW-78	10/01/95	3785.82	86.19	0	3699.63
MW-78	01/16/96	3785.82	86.22	0	3699.60
MW-78	04/17/96	3785.82	86.29	0	3699.53
MW-78	07/16/96	3785.82	86.41	0	3699.41
MW-78	10/14/96	3785.82	59.39	0	3726.43
MW-78	02/04/97	3785.82	75.78	0	3710.04
MW-78	04/29/97	3785.82	74.53	0	3711.29
MW-78	07/15/97	3785.82	74.47	0	3711.35
MW-78	10/14/97	3785.82	82.08	0	3703.74
MW-78	01/28/98	3785.82	81.61	0	3704.21
MW-78	04/27/98	3785.82	82.33	0	3703.49
MW-78	06/16/98	3785.82	82.27	0	3703.55
MW-78	10/10/98	3785.82	82.85	0	3702.97
MW-78	01/27/99	3785.82	83.30	0.01	3702.53
MW-78	04/19/99	3785.82	83.42	0	3702.40
MW-78	01/05/00	3785.82	82.49	0	3703.33
MW-78	04/26/00	3785.82	83.41	0	3702.41
MW-78	09/27/00	3785.82	83.51	0	3702.31
MW-78	04/16/01	3785.82	81.79	0	3704.03
MW-78	10/29/01	3785.82	82.75	0	3703.07
MW-78	04/15/02	3785.82	82.89	0	3702.93
MW-78*	10/14/02	3785.82	59.42	0	3726.40
MW-78	04/15/03	3785.82	84.50	0	3701.32
MW-78	10/14/03	3785.82	77.86	0	3707.96
MW-78	04/05/04	3785.82	78.56	0	3707.26
MW-78	10/05/04	3785.82	60.18	0	3725.64
MW-78	04/19/05	3785.82	79.40	0	3706.42
MW-78	10/24/05	3785.82	65.43	0	3720.39
MW-78	04/18/06	3785.82	68.48	0	3717.34
MW-78	10/11/06	3785.82	58.21	0	3727.61
MW-78	04/17/07	3785.82	72.82	0	3713
MW-78	10/22/07	3785.82	NA	--	--
MW-78	04/07/09	PLUGGED AND ABANDONED			
MW-79	01/01/95	3788.39	76.29	0	3712.10
MW-79	04/01/95	3788.39	77.32	0	3711.07
MW-79	07/01/95	3788.39	77.32	0	3711.07
MW-79	10/01/95	3788.39	79.57	0	3708.82
MW-79	01/16/96	3788.39	78.31	0	3710.08
MW-79	04/17/96	3788.39	78.36	0	3710.03
MW-79	07/15/96	3788.39	81.09	0	3707.30
MW-79	10/13/96	3788.39	80.08	0	3708.31
MW-79	02/03/97	3788.39	80.44	0	3707.95
MW-79	04/28/97	3788.39	75.65	0	3712.74
MW-79	07/14/97	3788.39	75.46	0	3712.93
MW-79	10/13/97	3788.39	78.70	0	3709.69
MW-79	01/27/98	3788.39	80.52	0	3707.87
MW-79	04/27/98	3788.39	81.14	0	3707.25
MW-79	06/15/98	3788.39	80.84	0	3707.55
MW-79	10/09/98	3788.39	81.13	0	3707.26
MW-79	01/27/99	3788.39	79.95	0	3708.44
MW-79	04/19/99	3788.39	73.09	0	3715.30
MW-79	01/05/00	3788.39	76.99	0	3711.40
MW-79	04/26/00	3788.39	75.95	0	3712.44
MW-79	09/27/00	3788.39	81.57	0	3706.82
MW-79	04/16/01	3788.39	81.58	0	3706.81
MW-79	10/29/01	3788.39	81.18	0	3707.21
MW-79	04/15/02	3788.39	80.88	0	3707.51
MW-79	10/14/02	3788.39	81.52	0	3706.87
MW-79	04/15/03	3788.39	81.69	0	3706.70

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Appendix A
Historic Fluid Level Data, May 1991 - May 2009
Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-79	10/14/03	3788.39	81.59	0	3706.80
MW-79	04/05/04	3788.39	81.64	0	3706.75
MW-79	10/05/04	3788.39	81.29	0.01	3707.11
MW-79	04/19/05	3788.39	81.61	0	3706.78
MW-79	10/24/05	3788.39	81.61	0	3706.78
MW-79	04/18/06	3788.39	81.71	0	3706.68
MW-79	10/11/06	3788.39	81.62	0	3706.77
MW-79	04/17/07	3788.39	81.71	0	3706.68
MW-79	10/22/07	3788.39	82.11	0	3706.28
MW-79	04/01/09	PLUGGED AND ABANDONED			
MW-80	01/16/96	3821.64	D	--	--
MW-80	04/19/96	3821.64	D	--	--
MW-80	07/15/96	3821.64	D	--	--
MW-80	10/13/96	3821.64	D	--	--
MW-80	02/03/97	3821.64	D	--	--
MW-80	04/28/97	3821.64	D	--	--
MW-80	07/14/97	3821.64	D	--	--
MW-80	10/13/97	3821.64	D	--	--
MW-80	01/27/98	3821.64	D	--	--
MW-80	04/27/98	3821.64	D	--	--
MW-80	06/15/98	3821.64	D	--	--
MW-80	10/09/98	3821.64	D	--	--
MW-80	01/27/99	3821.64	D	--	--
MW-80	04/19/99	3821.64	D	--	--
MW-80	04/26/00	3821.64	D	--	--
MW-80	09/27/00	3821.64	D	--	--
MW-80	04/16/01	3821.64	D	--	--
MW-80	10/29/01	3821.64	D	--	--
MW-80	04/15/02	3821.64	D	--	--
MW-80	10/14/02	3821.64	D	--	--
MW-80	03/29/03	PLUGGED AND ABANDONED			
MW-90	02/04/97	3781.73	43.24	0	3738.49
MW-90	04/28/97	3781.73	43.54	0	3738.19
MW-90	07/14/97	3781.73	43.42	0	3738.31
MW-90	10/13/97	3781.73	44.78	0	3736.95
MW-90	01/27/98	3781.73	43.26	0	3738.47
MW-90	04/27/98	3781.73	43.68	0	3738.05
MW-90	06/15/98	3781.73	44.26	0	3737.47
MW-90	10/09/98	3781.73	96.68	0	3685.05
MW-90	01/27/99	3781.73	46.40	0.01	3735.34
MW-90	04/19/99	3781.73	40.11	0	3741.62
MW-90	01/05/00	3781.73	44.81	0	3736.92
MW-90	04/26/00	3781.73	46.12	0	3735.61
MW-90	09/27/00	3781.73	43.82	0	3737.91
MW-90	04/16/01	3781.73	44.45	0	3737.28
MW-90	10/29/01	3781.73	43.62	0	3738.11
MW-90	04/15/02	3781.73	46.17	0	3735.56
MW-90	10/14/02	3781.73	38.73	0	3743.00
MW-90	04/15/03	3781.73	44.05	0	3737.68
MW-90	10/14/03	3781.73	46.06	0	3735.67
MW-90	04/05/04	3781.73	47.16	0	3734.57
MW-90	10/05/04	3781.73	28.72	0	3753.01
MW-90	04/19/05	3781.73	42.17	0	3739.56
MW-90	10/24/05	3781.73	41.67	0	3740.06
MW-90	04/18/06	3781.73	45.91	0	3735.82
MW-90	10/11/06	3781.73	38.09	0	3743.64
MW-90	04/30/07	3781.73	43.81	0	3781.73
MW-90	10/22/07	3781.73	43.81	0	3737.92
MW-90	04/01/09	PLUGGED AND ABANDONED			
MW-91	02/04/97	3783.07	64.90	0	3718.17
MW-91	04/29/97	3783.07	64.96	0.01	3718.11
MW-91	07/15/97	3783.07	64.96	0.02	3718.12
MW-91	10/14/97	3783.07	68.75	0	3714.32
MW-91	01/28/98	3783.07	70.57	0	3712.50
MW-91	04/27/98	3783.07	69.38	0	3713.69
MW-91	06/16/98	3783.07	72.26	0	3710.81
MW-91	10/10/98	3783.07	72.41	0	3710.66
MW-91	01/27/99	3783.07	72.66	0	3710.41
MW-91	04/19/99	3783.07	65.39	0	3717.68
MW-91	01/05/00	3783.07	70.73	0	3712.34
MW-91	04/26/00	3783.07	70.46	0	3712.61
MW-91	09/27/00	3783.07	71.74	0	3711.33
MW-91	04/16/01	3783.07	65.85	0	3717.22
MW-91	10/29/01	3783.07	63.90	0	3719.17

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Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-91	04/15/02	3783.07	69.98	0	3713.09
MW-91	10/14/02	3783.07	46.52	0	3736.55
MW-91	04/15/03	3783.07	61.94	0	3721.13
MW-91	10/14/03	3783.07	70.84	0	3712.23
MW-91	04/05/04	3783.07	71.96	0	3711.11
MW-91	10/05/04	3783.07	42.65	0	3740.42
MW-91	04/19/05	3783.07	46.38	0	3736.69
MW-91	10/24/05	3783.07	46.31	0	3736.76
MW-91	04/18/06	3783.07	D	--	--
MW-91	10/11/06	3783.07	47.66	0	3735.41
MW-91	04/17/07	3783.07	69.65	0	3713.42
MW-91	10/22/07	3783.07	67.10	0	3715.97
MW-91	04/01/09	PLUGGED AND ABANDONED			
MW-92	02/04/97	3785.29	D	--	--
MW-92	04/29/97	3785.29	D	--	--
MW-92	07/15/97	3785.29	D	--	--
MW-92	10/14/97	3785.29	D	--	--
MW-92	01/28/98	3785.29	D	--	--
MW-92	04/27/98	3785.29	72.52	0	3712.77
MW-92	06/16/98	3785.29	72.45	0	3712.84
MW-92	10/10/98	3785.29	72.51	0	3712.78
MW-92	01/27/99	3785.29	72.43	0	3712.86
MW-92	04/19/99	3785.29	72.41	0	3712.88
MW-92	04/26/00	3785.29	72.39	0	3712.90
MW-92	09/27/00	3785.29	NR	--	--
MW-92	04/16/01	3785.29	72.40	0	3712.89
MW-92	10/29/01	3785.29	72.29	0	3713.00
MW-92	04/15/02	3785.29	72.23	0	3713.06
MW-92	10/14/02	3785.29	56.36	0	3728.93
MW-92	03/29/03	PLUGGED AND ABANDONED			
MW-93	02/03/97	3817.50	D	--	--
MW-93	04/29/97	3817.50	D	--	--
MW-93	07/14/97	3817.50	D	--	--
MW-93	10/13/97	3817.50	D	--	--
MW-93	01/27/98	3817.50	D	--	--
MW-93	04/27/98	3817.50	D	--	--
MW-93	06/15/98	3817.50	D	--	--
MW-93	10/09/98	3817.50	D	--	--
MW-93	01/27/99	3817.50	D	--	--
MW-93	04/19/99	3817.50	D	--	--
MW-93	04/26/00	3817.50	D	--	--
MW-93	09/27/00	3817.50	D	--	--
MW-93	04/16/01	3817.50	D	--	--
MW-93	10/29/01	3817.50	D	--	--
MW-93	04/15/02	3817.50	D	--	--
MW-93	10/14/02	3817.50	D	--	--
MW-93	03/29/03	PLUGGED AND ABANDONED			
MW-99	02/04/97	3770.05	D	--	--
MW-99	04/29/97	3770.05	D	--	--
MW-99	07/15/97	3770.05	D	--	--
MW-99	10/14/97	3770.05	D	--	--
MW-99	01/28/98	3770.05	D	--	--
MW-99	04/27/98	3770.05	D	--	--
MW-99	06/16/98	3770.05	D	--	--
MW-99	10/10/98	3770.05	D	--	--
MW-99	01/27/99	3770.05	D	--	--
MW-99	04/19/99	3770.05	D	--	--
MW-99	04/26/00	3770.05	D	--	--
MW-99	09/27/00	3770.05	D	--	--
MW-99	04/16/01	3770.05	D	--	--
MW-99	10/29/01	3770.05	D	--	--
MW-99	04/15/02	3770.05	D	--	--
MW-99	10/14/02	3770.05	D	--	--
MW-99	03/29/03	PLUGGED AND ABANDONED			
MW-100	04/29/97	3773.31	D	--	--
MW-100	07/15/97	3773.31	D	--	--
MW-100	10/14/97	3773.31	D	--	--
MW-100	01/28/98	3773.31	D	--	--
MW-100	04/27/98	3773.31	D	--	--
MW-100	06/16/98	3773.31	D	--	--
MW-100	10/10/98	3773.31	D	--	--
MW-100	01/27/99	3773.31	D	--	--
MW-100	04/19/99	3773.31	D	--	--

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Appendix A
Historic Fluid Level Data, May 1991 - May 2009
Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-100	04/26/00	3773.31	D	--	--
MW-100	09/27/00	3773.31	72.61	0	3700.70
MW-100	04/16/01	3773.31	D	--	--
MW-100	10/29/01	3773.31	D	--	--
MW-100	04/15/02	3773.31	D	--	--
MW-100	10/14/02	3773.31	D	--	--
MW-100	04/15/03	3773.31	D	--	--
MW-100	10/14/03	3773.31	D	--	--
MW-100	04/05/04	3773.31	D	--	--
MW-100	10/05/04	3773.31	67.71	0	3705.60
MW-100	04/19/05	3773.31	D	--	--
MW-100	10/24/05	3773.31	D	--	--
MW-100	04/18/06	3773.31	D	--	--
MW-100	10/11/06	3773.31	71.74	0	3701.57
MW-100	04/30/07	3773.31	3773.31	0	3773.31
MW-100	10/22/07	3773.31	72.65	0	3700.66
MW-100	04/01/09	PLUGGED AND ABANDONED			
MW-101	02/04/97	3762.71	D	--	--
MW-101	04/29/97	3762.71	D	--	--
MW-101	07/15/97	3762.71	D	--	--
MW-101	10/14/97	3762.71	D	--	--
MW-101	01/28/98	3762.71	D	--	--
MW-101	04/27/98	3762.71	D	--	--
MW-101	06/16/98	3762.71	D	--	--
MW-101	10/10/98	3762.71	D	--	--
MW-101	01/27/99	3762.71	D	--	--
MW-101	04/19/99	3762.71	D	--	--
MW-101	04/26/00	3762.71	D	--	--
MW-101	09/27/00	3762.71	NR	--	--
MW-101	04/16/01	3762.71	D	--	--
MW-101	10/29/01	3762.71	D	--	--
MW-101	04/15/02	3762.71	D	--	--
MW-101	10/14/02	3762.71	D	--	--
MW-101	03/28/03	PLUGGED AND ABANDONED			
MW-102	02/04/97	3753.69	D	--	--
MW-102	04/28/97	3753.69	D	--	--
MW-102	07/15/97	3753.69	D	--	--
MW-102	10/13/97	3753.69	D	--	--
MW-102	01/28/98	3753.69	82.60	0	3671.09
MW-102	04/27/98	3753.69	82.60	0	3671.09
MW-102	06/15/98	3753.69	D	--	--
MW-102	10/10/98	3753.69	D	--	--
MW-102	01/27/99	3753.69	82.62	0	3671.07
MW-102	04/19/99	3753.69	82.57	0	3671.12
MW-102	04/26/00	3753.69	82.56	0	3671.13
MW-102	09/27/00	3753.69	D	--	--
MW-102	04/16/01	3753.69	D	--	--
MW-102	10/29/01	3753.69	D	--	--
MW-102	04/15/02	3753.69	D	--	--
MW-102	10/14/02	3753.69	D	--	--
MW-102	03/28/03	PLUGGED AND ABANDONED			
MW-103	02/04/97	3743.14	D	--	--
MW-103	04/29/97	3743.14	D	--	--
MW-103	07/15/97	3743.14	D	--	--
MW-103	10/14/97	3743.14	72.30	0	3670.84
MW-103	01/28/98	3743.14	72.70	0	3670.44
MW-103	04/27/98	3743.14	72.78	0	3670.36
MW-103	06/16/98	3743.14	D	--	--
MW-103	10/10/98	3743.14	D	--	--
MW-103	01/27/99	3743.14	73.15	0	3669.99
MW-103	04/19/99	3743.14	73.16	0	3669.98
MW-103	04/26/00	3743.14	72.74	0	3670.40
MW-103	09/27/00	3743.14	NR	--	--
MW-103	04/16/01	3743.14	72.49	0	3670.65
MW-103	10/29/01	3743.14	72.04	0	3671.10
MW-103	04/15/02	3743.14	72.65	0	3670.49
MW-103	10/14/02	3743.14	71.89	0	3671.25
MW-103	03/28/03	PLUGGED AND ABANDONED			
MW-105	02/04/97	3736.93	D	--	--
MW-105	04/28/97	3736.93	D	--	--
MW-105	07/15/97	3736.93	D	--	--
MW-105	10/13/97	3736.93	D	--	--
MW-105	01/28/98	3736.93	82.93	0	3654.00

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Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-105	04/27/98	3736.93	D	--	--
MW-105	06/15/98	3736.93	82.84	0	3654.09
MW-105	10/10/98	3736.93	82.33	0	3654.60
MW-105	01/27/99	3736.93	82.62	0	3654.31
MW-105	04/19/99	3736.93	82.00	0	3654.93
MW-105	01/05/00	3736.93	82.42	0	3654.51
MW-105	04/26/00	3736.93	82.22	0	3654.71
MW-105	09/27/00	3736.93	82.89	0	3654.04
MW-105	04/16/01	3736.93	82.33	0	3654.60
MW-105	10/29/01	3736.93	D	--	--
MW-105	04/15/02	3736.93	D	--	--
MW-105	10/14/02	3736.93	D	--	--
MW-105	04/15/03	3736.93	D	--	--
MW-105	10/14/03	3736.93	82.55	0	3654.38
MW-105	04/05/04	3736.93	D	--	--
MW-105	10/05/04	3736.93	82.44	0	3654.49
MW-105	04/19/05	3736.93	D	--	--
MW-105	10/24/05	3736.93	D	--	--
MW-105	04/18/06	3736.93	79.22	0	3657.71
MW-105	10/11/06	3736.93	D	--	--
MW-105	04/30/07	3736.93	76.07	0	3660.86
MW-105	10/22/07	3736.93	D	--	--
MW-105	04/15/09	PLUGGED AND ABANDONED			
MW-106	02/04/97	3721.97	87.97	0	3634.00
MW-106	04/28/97	3721.97	87.59	0	3634.38
MW-106	07/15/97	3721.97	87.63	0	3634.34
MW-106	10/13/97	3721.97	88.75	0	3633.22
MW-106	01/28/98	3721.97	88.97	0	3633.00
MW-106	04/27/98	3721.97	89.36	0	3632.61
MW-106	06/15/98	3721.97	89.63	0	3632.34
MW-106	10/10/98	3721.97	89.61	0	3632.36
MW-106	01/27/99	3721.97	86.55	0	3635.42
MW-106	04/19/99	3721.97	89.58	0	3632.39
MW-106	01/05/00	3721.97	89.05	0	3632.92
MW-106	04/26/00	3721.97	89.31	0	3632.66
MW-106	09/27/00	3721.97	87.98	0	3633.99
MW-106	04/16/01	3721.97	88.81	0	3633.16
MW-106	10/29/01	3721.97	89.05	0	3632.92
MW-106	04/15/02	3721.97	89.05	0	3632.92
MW-106	10/14/02	3721.97	87.40	0	3634.57
MW-106	04/15/03	3721.97	88.91	0	3633.06
MW-106	10/14/03	3721.97	89.94	0	3632.03
MW-106	04/05/04	3721.97	89.34	0	3632.63
MW-106	10/05/04	3721.97	75.78	0	3646.19
MW-106	04/19/05	3721.97	88.54	0	3633.43
MW-106	10/24/05	3721.97	88.47	0	3633.50
MW-106	04/18/06	3721.97	89.71	0	3632.26
MW-106	10/11/06	3721.97	87.09	0	3634.88
MW-106	04/17/07	3721.97	89.4	0	3632.57
MW-106	10/22/07	3721.97	88.64	0	3633.33
MW-106	05/27/09	3721.97	D	--	--
MW-107	02/04/97	3726.27	D	--	--
MW-107	04/29/97	3726.27	D	--	--
MW-107	07/15/97	3726.27	D	--	--
MW-107	10/13/97	3726.27	D	--	--
MW-107	01/28/98	3726.27	D	--	--
MW-107	04/27/98	3726.27	D	--	--
MW-107	06/15/98	3726.27	D	--	--
MW-107	10/10/98	3726.27	D	--	--
MW-107	01/27/99	3726.27	D	--	--
MW-107	04/19/99	3726.27	D	--	--
MW-107	04/26/00	3726.27	D	--	--
MW-107	09/27/00	3726.27	NR	--	--
MW-107	04/16/01	3726.27	D	--	--
MW-107	10/29/01	3726.27	D	--	--
MW-107	04/15/02	3726.27	D	--	--
MW-107	10/14/02	3726.27	D	--	--
MW-107	03/28/03	PLUGGED AND ABANDONED			
MW-109	06/17/98	3809.53	D	--	--
MW-109	10/10/98	3809.53	17.79	0	3791.74
MW-109	01/05/00	3809.53	17.42	0	3792.11
MW-109	04/26/00	3809.53	17.58	0	3791.95
MW-109	09/27/00	3809.53	17.81	0	3791.72
MW-109	04/16/01	3809.53	17.01	0	3792.52

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Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-109	10/29/01	3809.53	17.59	0	3791.94
MW-109	04/15/02	3809.53	17.96	0	3791.57
MW-109	10/14/02	3809.53	15.87	0	3793.66
MW-109	04/15/03	3809.53	16.99	0	3792.54
MW-109	10/14/03	3809.53	17.55	0	3791.98
MW-109	04/05/04	3809.53	18.16	0	3791.37
MW-109	10/05/04	3809.53	14.76	0	3794.77
MW-109	04/19/05	3809.53	15.90	0	3793.63
MW-109	10/24/05	3809.53	17.09	0	3792.44
MW-109	04/18/06	3809.53	17.65	0	3791.88
MW-109	10/11/06	3809.53	15.34	0	3794.19
MW-109	04/30/07	3809.53		0	3809.53
MW-109	10/22/07	3809.53	NA	--	--
MW-109	03/24/09	PLUGGED AND ABANDONED			
MW-117	10/01/03	3807.86	20.76	0	3787.10
MW-117	04/05/04	3807.86	20.68	0	3787.18
MW-117	10/05/04	3807.86	14.14	0	3793.72
MW-117	04/19/05	3807.86	18.00	0	3789.86
MW-117	10/24/05	3807.86	20.49	0	3787.37
MW-117	04/18/06	3807.86	20.88	0	3786.98
MW-117	10/11/06	3807.86	17.15	0	3790.71
MW-117	04/16/07	3807.86	21.51	0	3786.35
MW-117	10/22/07	3807.86	17.10	0	3790.76
MW-117	03/24/09	PLUGGED AND ABANDONED			
MW-126	01/05/00	3795.58	53.08	0	3742.50
MW-126	04/26/00	3795.58	54.03	0	3741.55
MW-126	09/27/00	3795.58	60.29	0	3735.29
MW-126	04/16/01	3795.58	54.25	0.52	3741.71
MW-126	10/29/01	3795.58	57.82	2.1	3739.29
MW-126	04/15/02	3795.58	56.95	2.23	3740.26
MW-126	10/14/02	3795.58	54.03	2.57	3743.43
MW-126	04/15/03	3796.28	63.65	3.96	3735.52
MW-126	10/14/03	3796.28	68.01	0	3728.27
MW-126	04/05/04	3796.28	70.04	0	3726.24
MW-126	10/05/04	3796.28	48.01	0.01	3748.28
MW-126	04/19/05	3796.28	50.63	0.25	3745.83
MW-126	10/24/05	3796.28	51.78	0	3744.50
MW-126	04/18/06	3796.28	66.79	0	3729.49
MW-126	10/11/06	3796.28	51.76	0.08	3744.58
MW-126	04/17/07	3796.28	62.92	0.6	3732.92
MW-126	10/22/07	3796.28	56.30	0	3739.98
MW-126	05/27/09	3796.28	69.95	0.05	3726.37
STOCK_WELL	01/01/94	3779.76	19.61	0	3760.15
SUMP-16A	12/01/91	3785.14	11.65	0	3773.49
SUMP-16A	04/15/92	3785.14	12.02	0	3773.12
SUMP-16A	07/01/92	3785.14	4.87	0	3780.27
SUMP-16A	10/01/92	3785.14	12.00	0	3773.14
SUMP-16A	01/01/93	3785.14	13.00	0	3772.14
SUMP-16A	04/01/93	3785.14	14.15	0	3770.99
SUMP-16A	10/01/94	3785.14	11.25	0	3773.89
SUMP-16A	01/01/95	3785.14	16.34	0	3768.80
SUMP-16A	04/01/95	3785.14	17.32	0	3767.82
SUMP-16A	07/01/95	3785.14	17.32	0	3767.82
SUMP-16A	10/01/95	3785.14	14.60	0	3770.54
SUMP-16A	01/16/96	3785.14	16.30	0	3768.84
SUMP-16A	04/19/96	3785.14	17.45	0	3767.69
SUMP-16A	07/15/96	3785.14	16.85	0	3768.29
SUMP-16A	10/13/96	3785.14	15.99	0	3769.15
SUMP-16A	04/26/00	3785.14	D	--	--
SUMP-16A	09/27/00	3785.14	NR	--	--
SUMP-16A	04/16/01	3785.14	13.70	0	3771.44
SUMP-16A	10/29/01	3785.14	13.87	0	3771.27
SUMP-16A	04/15/02	3785.14	D	--	--
SUMP-16A	10/14/02	3785.14	D	--	--
SUMP-16A	04/15/03	3785.14	16.40	0	3768.74
SUMP-16A	10/14/03	3785.14	D	--	--
SUMP-16A	04/05/04	3785.14	D	--	--
SUMP-16A	10/05/04	3785.14	5.27	0	3779.87
SUMP-16A	04/19/05	3785.14	D	--	--
SUMP-16A	10/24/05	3785.14	D	--	--
SUMP-16A	04/18/06	3785.14	D	--	--
SUMP-16A	10/11/06	3785.14	11.64	0	3773.50
SUMP-16A	04/30/07	3785.14		0	3785.14

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Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
SUMP-16A	10/22/07	3785.14	D	--	--
SUMP-16A	04/01/09	PLUGGED AND ABANDONED			
SUMP-A10	01/16/96	3800.99	D	--	--
SUMP-A10	04/19/96	3800.99	D	--	--
SUMP-A10	07/15/96	3800.99	D	--	--
SUMP-A10	10/13/96	3800.99	11.62	0	3789.37
SUMP-A10	04/26/00	3800.99	D	--	--
SUMP-A10	09/27/00	3800.99	NR	--	--
SUMP-A10	04/16/01	3800.99	D	--	--
SUMP-A10	10/29/01	3800.99	D	--	--
SUMP-A10	04/15/02	3800.99	D	--	--
SUMP-A10	10/14/02	3800.99	D	--	--
SUMP-A10	04/15/03	3800.99	D	--	--
SUMP-A10	10/14/03	3800.99	D	--	--
SUMP-A10	04/05/04	3800.99	D	--	--
SUMP-A10	10/05/04	3800.99	8.42	0	3789.37
SUMP-A10	04/19/05	3800.99	D	--	--
SUMP-A10	10/24/05	3800.99	D	--	--
SUMP-A10	04/18/06	3800.99	D	--	--
SUMP-A10	10/11/06	3800.99	11.22	0	3789.37
SUMP-A11	04/30/07	3800.99		0	3800.99
SUMP-A10	10/22/07	3800.99	D	--	--
SUMP-A10	04/01/09	PLUGGED AND ABANDONED			

Lower Queen Wells

MW-57	05/28/91	3787.70	160.25	0	3627.45
MW-57	06/01/91	3787.70	160.25	0	3627.45
MW-57	07/16/91	3787.70	160.29	0	3627.41
MW-57	08/21/91	3787.70	155.50	0	3632.20
MW-57	09/18/91	3787.70	154.29	0	3633.41
MW-57	10/22/91	3787.70	157.11	0	3630.59
MW-57	11/15/91	3787.70	157.50	0	3630.20
MW-57	03/01/92	3787.70	157.92	0	3629.78
MW-57	04/01/92	3787.70	157.59	0	3630.11
MW-57	05/01/92	3787.70	148.00	0	3639.70
MW-57	06/01/92	3787.70	151.21	0	3636.49
MW-57	07/01/92	3787.70	154.07	0	3633.63
MW-57	08/01/92	3787.70	155.24	0	3632.46
MW-57	09/01/92	3787.70	155.67	0	3632.03
MW-57	10/01/92	3787.70	156.01	0	3631.69
MW-57	11/01/92	3787.70	156.31	0	3631.39
MW-57	12/01/92	3787.70	156.55	0	3631.15
MW-57	01/01/93	3787.70	156.68	0	3631.02
MW-57	02/01/93	3787.70	156.79	0	3630.91
MW-57	03/01/93	3787.70	157.00	0	3630.70
MW-57	04/01/93	3787.70	156.95	0	3630.75
MW-57	05/01/93	3787.70	157.23	0	3630.47
MW-57	06/01/93	3787.70	157.13	0	3630.57
MW-57	07/01/93	3787.70	157.42	0	3630.28
MW-57	08/01/93	3787.70	157.28	0	3630.42
MW-57	09/01/93	3787.70	157.57	0	3630.13
MW-57	10/01/93	3787.70	157.65	0	3630.05
MW-57	11/01/93	3787.70	157.89	0	3629.81
MW-57	12/01/93	3787.70	157.96	0	3629.74
MW-57	01/01/94	3787.70	157.91	0	3629.79
MW-57	02/01/94	3787.70	158.78	0	3628.92
MW-57	03/01/94	3787.70	158.92	0	3628.78
MW-57	04/01/94	3787.70	158.96	0	3628.74
MW-57	05/01/94	3787.70	158.74	0	3628.96
MW-57	07/01/94	3787.70	158.49	0	3629.21
MW-57	08/01/94	3787.70	158.16	0	3629.54
MW-57	09/01/94	3787.70	158.14	0	3629.56
MW-57	10/01/94	3787.70	158.31	0	3629.39
MW-57	12/01/94	3787.70	159.51	0	3628.19
MW-57	01/01/95	3787.70	158.77	0	3628.93
MW-57	04/01/95	3787.70	158.96	0	3628.74
MW-57	07/01/95	3787.70	158.06	0	3629.64
MW-57	10/01/95	3787.70	159.23	0	3628.47
MW-57	01/16/96	3787.70	159.67	0	3628.03
MW-57	04/17/96	3787.70	161.95	0	3625.75
MW-57	07/16/96	3787.70	162.02	0	3625.68
MW-57	10/14/96	3787.70	158.83	0	3628.87
MW-57	02/04/97	3787.70	159.89	0	3627.81
MW-57	04/29/97	3787.70	160.23	0	3627.47
MW-57	07/15/97	3787.70	160.29	0	3627.41

D = Dry
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 NG = Not Gauged
 NR = No Record

Appendix A
 Historic Fluid Level Data, May 1991 - May 2009
 Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-57	09/30/97	3787.70	161.30	0	3626.40
MW-57	10/09/97	3787.70	161.33	0	3626.37
MW-57	10/14/97	3787.70	161.13	0	3626.57
MW-57	10/29/97	3787.70	161.04	0.01	3626.66
MW-57	11/04/97	3787.70	161.23	0.01	3626.47
MW-57	11/12/97	3787.70	161.26	0.01	3626.44
MW-57	11/19/97	3787.70	161.34	0.01	3626.36
MW-57	11/24/97	3787.70	161.33	0	3626.37
MW-57	12/10/97	3787.70	161.30	0	3626.40
MW-57	01/28/98	3787.70	161.11	0	3626.59
MW-57	02/25/98	3787.70	161.44	0	3626.26
MW-57	04/27/98	3787.70	161.29	0	3626.41
MW-57	05/28/98	3787.70	161.67	0	3626.03
MW-57	06/16/98	3787.70	161.62	0	3626.08
MW-57	10/10/98	3787.70	162.11	0	3625.59
MW-57	01/27/99	3787.70	162.16	0	3625.54
MW-57	04/19/99	3787.70	162.33	0	3625.37
MW-57	01/05/00	3787.70	162.62	0	3625.08
MW-57	04/26/00	3787.70	162.70	0	3625.00
MW-57	09/27/00	3787.70	163.02	0	3624.68
MW-57	04/16/01	3787.70	163.15	0	3624.55
MW-57	10/29/01	3787.70	163.44	0	3624.26
MW-57	04/15/02	3787.70	163.52	0	3624.18
MW-57	10/14/02	3787.70	162.26	0	3625.44
MW-57	04/15/03	3787.70	163.18	0	3624.52
MW-57	10/14/03	3787.70	164.24	0	3623.46
MW-57	04/05/04	3787.70	164.31	0	3623.39
MW-57	10/05/04	3787.70	159.72	0	3627.98
MW-57	04/19/05	3787.70	162.91	0	3624.79
MW-57	10/24/05	3787.70	162.61	0	3625.09
MW-57	04/18/06	3787.70	163.73	0	3623.97
MW-57	10/11/06	3787.70	162.32	0	3625.38
MW-57	04/17/07	3787.7	163.46	0	3624.24
MW-57	10/22/07	3787.70	163.00	0	3624.70
MW-57	04/07/09	PLUGGED AND ABANDONED			
MW-58	07/16/91	3824.07	197.91	0	3626.16
MW-58	08/21/91	3824.07	193.76	0	3630.31
MW-58	09/18/91	3824.07	193.26	0	3630.81
MW-58	10/22/91	3824.07	194.45	0	3629.62
MW-58	11/15/91	3824.07	194.77	0	3629.30
MW-58	01/16/96	3824.07	D	--	--
MW-58	07/16/96	3824.07	D	--	--
MW-58	10/14/96	3824.07	196.01	0.01	3628.06
MW-58	02/04/97	3824.07	203.00	0	3621.07
MW-58	04/28/97	3824.07	204.14	0	3619.93
MW-58	07/15/97	3824.07	197.66	0	3626.41
MW-58	10/01/97	3824.07	199.20	0.3	3625.08
MW-58	10/09/97	3824.07	199.52	0.67	3625.03
MW-58	10/14/97	3824.07	196.10	0	3627.97
MW-58	01/28/98	3824.07	198.55	0	3625.52
MW-58	05/28/98	3824.07	205.14	0	3618.93
MW-58	10/11/98	3824.07	200.48	0	3623.59
MW-58	01/27/99	3824.07	D	--	--
MW-58	04/19/99	3824.07	217.17	0	3606.90
MW-58	01/05/00	3824.07	210.57	0	3613.50
MW-58	04/26/00	3824.07	223.51	0	3600.56
MW-58	09/27/00	3824.07	220.18	0	3603.89
MW-58	04/16/01	3824.07	114.83	0	3709.24
MW-58	10/29/01	3824.07	177.31	0	3644.41
MW-58	04/15/02	3824.07	201.92	0	3622.15
MW-58	10/14/02	3824.07	199.69	0	3624.38
MW-58	02/13/03	3824.07	201.08	0	3622.99
MW-58	03/10/03	3824.07	202.20	0	3621.87
MW-58	04/15/03	3824.07	201.17	0	3622.90
MW-58	05/15/03	3824.07	201.82	0	3622.25
MW-58	06/24/03	3824.07	201.71	0	3622.36
MW-58	07/15/03	3824.07	202.89	0	3621.18
MW-58	08/08/03	3824.07	201.98	0	3622.09
MW-58	09/12/05	3824.07	202.20	0	3621.87
MW-58	10/14/03	3824.07	202.19	0	3621.88
MW-58	11/07/03	3824.07	202.29	0	3621.78
MW-58	12/04/03	3824.07	202.26	0	3621.81
MW-58	01/08/04	3824.07	202.38	0.1	3621.76
MW-58	02/12/04	3824.07	202.47	0	3621.60
MW-58	03/25/04	3824.07	202.49	0	3621.58
MW-58	04/05/04	3824.07	202.32	0	3621.75

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Appendix A
 Historic Fluid Level Data, May 1991 - May 2009
 Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-58	05/27/04	3824.07	201.37	0.01	3622.71
MW-58	06/17/04	3824.07	202.00	0	3622.07
MW-58	07/15/04	3824.07	202.08	0	3621.99
MW-58	08/19/04	3824.07	202.98	0.06	3621.13
MW-58	09/09/04	3824.07	201.74	0	3622.33
MW-58	10/05/04	3824.07	198.82	0	3625.25
MW-58	11/19/04	3824.07	199.30	0.28	3624.97
MW-58	12/07/04	3824.07	202.14		3621.93
MW-58	01/11/05	3824.07	200.70	0.58	3623.79
MW-58	02/08/05	3824.07	200.56	0	3623.51
MW-58	03/08/05	3824.07	200.87	0	3623.20
MW-58	04/19/05	3824.07	207.19	0	3616.88
MW-58	05/09/05	3824.07	207.19	0	3616.88
MW-58	06/21/05	3824.07	200.04	0	3624.03
MW-58	07/19/05	3824.07	199.94	0	3624.13
MW-58	08/08/05	3824.07	200.03	0	3624.04
MW-58	09/20/05	3824.07	199.02	0	3625.05
MW-58	10/24/05	3824.07	199.84	0.46	3624.57
MW-58	04/18/06	3824.07	200.05	0	3624.02
MW-58	10/11/06	3824.07	199.04	0.2	3625.18
MW-58	04/16/07	3824.07	200.49	0.52	3623.20
MW-58	10/22/07	3824.07	199.65	0	3624.42
MW-58	05/27/09	3824.07	200.73	5.26	3627.18
MW-59	07/16/91	3819.59	193.98	0	3625.61
MW-59	08/21/91	3819.59	189.84	0	3629.75
MW-59	09/18/91	3819.59	189.38	0	3630.21
MW-59	10/22/91	3819.59	190.65	0	3628.94
MW-59	11/15/91	3819.59	190.00	0	3629.59
MW-59	01/16/96	3819.59	192.56	0.07	3627.08
MW-59	04/17/96	3819.59	193.37	1.37	3627.22
MW-59	07/16/96	3819.59	193.40	1.42	3627.22
MW-59	10/14/96	3819.59	192.43	1.22	3628.05
MW-59	02/04/97	3819.59	193.70	1.28	3626.82
MW-59	04/29/97	3819.59	194.09	1.14	3626.33
MW-59	07/15/97	3819.59	194.11	1.17	3626.33
MW-59	09/30/97	3819.59	195.30	1.2	3625.16
MW-59	10/09/97	3819.59	194.05	0	3625.54
MW-59	10/14/97	3819.59	195.81	1.99	3625.23
MW-59	01/28/98	3819.59	193.94	0	3625.65
MW-59	04/27/98	3819.59	194.15	0	3625.44
MW-59	05/28/98	3819.59	195.72	1.16	3624.71
MW-59	06/16/98	3819.59	195.59	1.19	3624.86
MW-59	10/10/98	3819.59	194.84	1.09	3625.54
MW-59	01/27/99	3819.59	195.95	0.89	3624.29
MW-59	04/19/99	3819.59	195.95	0.78	3624.21
MW-59	01/05/00	3819.59	195.39	0	3624.20
MW-59	04/26/00	3819.59	193.72	0	3625.87
MW-59	09/27/00	3819.59	196.28	0	3623.31
MW-59	04/16/01	3819.59	196.48	0	3623.11
MW-59	10/29/01	3819.59	196.58	0	3623.01
MW-59	04/15/02	3819.59	195.69	0	3623.90
MW-59	10/14/02	3819.59	195.40	0	3624.19
MW-59	04/15/03	3819.59	200.58	0	3619.01
MW-59	10/14/03	3819.59	197.16	0	3622.43
MW-59	04/05/04	3819.59	197.09	0	3622.50
MW-59	10/05/04	3819.59	193.29	0	3626.30
MW-59	04/19/05	3819.59	193.75	0	3625.84
MW-59	10/24/05	3819.59	193.54	0	3626.05
MW-59	04/18/06	3819.59	196.20	0	3623.39
MW-59	10/11/06	3819.59	193.19	0	3626.40
MW-59	04/17/07	3819.59	196.14	0	3623.45
MW-59	10/22/07	3819.59	195.73	0	3623.86
MW-59	04/09/09	PLUGGED AND ABANDONED			
MW-60	07/16/91	3815.28	188.22	0	3627.06
MW-60	08/21/91	3815.28	184.81	0	3630.47
MW-60	09/18/91	3815.28	184.32	0	3630.96
MW-60	10/22/91	3815.28	185.50	0	3629.78
MW-60	11/15/91	3815.28	185.43	0	3629.85
MW-60	03/01/92	3815.28	186.00	0	3629.28
MW-60	04/01/92	3815.28	185.79	0	3629.49
MW-60	05/01/92	3815.28	180.10	0	3635.18
MW-60	06/01/92	3815.28	181.87	0	3633.61
MW-60	07/01/92	3815.28	183.21	0	3632.07
MW-60	08/01/92	3815.28	183.61	0	3631.67
MW-60	09/01/92	3815.28	183.94	0	3631.34

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Appendix A
Historic Fluid Level Data, May 1991 - May 2009
Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-60	10/01/92	3815.28	184.18	0	3631.10
MW-60	11/01/92	3815.28	184.44	0	3630.84
MW-60	12/01/92	3815.28	184.67	0	3630.61
MW-60	01/01/93	3815.28	184.75	0	3630.53
MW-60	02/01/93	3815.28	184.86	0	3630.42
MW-60	03/01/93	3815.28	185.08	0	3630.20
MW-60	04/01/93	3815.28	185.02	0	3630.26
MW-60	05/01/93	3815.28	185.29	0	3629.99
MW-60	06/01/93	3815.28	185.23	0	3630.05
MW-60	07/01/93	3815.28	185.47	0	3629.81
MW-60	08/01/93	3815.28	185.41	0	3629.87
MW-60	09/01/93	3815.28	185.66	0	3629.62
MW-60	10/01/93	3815.28	185.70	0	3629.58
MW-60	11/01/93	3815.28	185.96	0	3629.32
MW-60	12/01/93	3815.28	185.98	0	3629.30
MW-60	01/01/94	3815.28	185.93	0	3629.35
MW-60	02/01/94	3815.28	186.79	0	3628.49
MW-60	03/01/94	3815.28	184.91	0	3630.37
MW-60	04/01/94	3815.28	186.91	0	3628.37
MW-60	05/01/94	3815.28	186.71	0	3628.57
MW-60	07/01/94	3815.28	186.54	0	3628.74
MW-60	08/01/94	3815.28	185.34	0	3629.94
MW-60	09/01/94	3815.28	186.24	0	3629.04
MW-60	10/01/94	3815.28	186.44	0	3628.84
MW-60	12/01/94	3815.28	187.54	0	3627.74
MW-60	01/01/95	3815.28	186.81	0	3628.47
MW-60	04/01/95	3815.28	187.01	0	3628.27
MW-60	07/01/95	3815.28	187.09	0	3628.19
MW-60	10/01/95	3815.28	187.29	0	3627.99
MW-60	01/19/96	3815.28	187.76	0	3627.52
MW-60	04/17/96	3815.28	187.83	0	3627.45
MW-60	07/16/96	3815.28	188.04	0	3627.24
MW-60	10/13/96	3815.28	187.89	0	3627.39
MW-60	02/04/97	3815.28	188.19	0	3627.09
MW-60	03/18/97	3815.28	188.40	0	3626.88
MW-60	04/28/97	3815.28	188.48	0	3626.80
MW-60	07/14/97	3815.28	188.74	0	3626.54
MW-60	10/01/97	3815.28	189.70	0	3625.58
MW-60	10/09/97	3815.28	189.65	0	3625.63
MW-60	10/13/97	3815.28	189.97	0	3625.31
MW-60	01/27/98	3815.28	189.37	0	3625.91
MW-60	04/27/98	3815.28	189.65	0	3625.63
MW-60	05/28/98	3815.28	190.32	0	3624.96
MW-60	06/15/98	3815.28	189.90	0	3625.38
MW-60	10/10/98	3815.28	190.04	0	3625.24
MW-60	01/27/99	3815.28	190.99	0	3624.29
MW-60	04/19/99	3815.28	190.92	0	3624.36
MW-60	01/05/00	3815.28	190.71	0	3624.57
MW-60	04/26/00	3815.28	190.88	0	3624.40
MW-60	09/27/00	3815.28	192.24	0	3623.04
MW-60	04/16/01	3815.28	191.16	0	3624.12
MW-60	10/29/01	3815.28	191.65	0	3623.63
MW-60	04/15/02	3815.28	191.62	0	3623.66
MW-60	10/14/02	3815.28	190.59	0	3624.69
MW-60	04/15/03	3815.28	191.10	0	3624.18
MW-60	10/14/03	3815.28	192.17	0	3623.11
MW-60	04/05/04	3815.28	192.21	0	3623.07
MW-60	10/05/04	3815.28	188.43	0	3626.85
MW-60	04/19/05	3815.28	190.96	0	3624.32
MW-60	10/24/05	3815.28	190.69	0	3624.59
MW-60	04/18/06	3815.28	191.42	0	3623.86
MW-60	10/11/06	3815.28	190.55	0	3624.73
MW-60	04/17/07	3815.28	191.37	0	3623.91
MW-60	10/22/07	3815.28	191.02	0	3624.26
MW-60	04/06/09	PLUGGED AND ABANDONED			
MW-61A	07/16/91	3815.97	189.06	0	3626.91
MW-61A	08/21/91	3815.97	186.85	0	3629.12
MW-61A	09/18/91	3815.97	186.92	0	3629.05
MW-61A	10/22/91	3815.97	187.99	0	3627.98
MW-61A	11/15/91	3815.97	187.00	0	3628.97
MW-61A	10/01/94	3815.97	187.26	0	3628.71
MW-61A	12/01/94	3815.97	188.24	0	3627.73
MW-61A	01/01/95	3815.97	187.57	0	3628.40
MW-61A	02/04/97	3815.97	187.98	0	3627.99
MW-61A	04/28/97	3815.97	188.14	0	3627.83
MW-61A	07/14/97	3815.97	191.60	0	3624.37

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Appendix A
Historic Fluid Level Data, May 1991 - May 2009
Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-61A	09/30/97	3815.97	191.10	0	3624.87
MW-61A	10/09/97	3815.97	192.16	0.01	3623.81
MW-61A	10/13/97	3815.97	190.78	0	3625.19
MW-61A	01/27/98	3815.97	192.27	0	3623.70
MW-61A	04/27/98	3815.97	192.64	0	3623.33
MW-61A	05/28/98	3815.97	192.00	0	3623.97
MW-61A	06/15/98	3815.97	193.73	0	3622.24
MW-61A	10/10/98	3815.97	193.22	0	3622.75
MW-61A	01/27/99	3815.97	193.37	0	3622.60
MW-61A	04/19/99	3815.97	202.48	0	3613.49
MW-61A	01/05/00	3815.97	193.51	0	3622.46
MW-61A	04/26/00	3815.97	192.33	0	3623.64
MW-61A	09/27/00	3815.97	192.75	0	3623.22
MW-61A	04/16/01	3815.97	192.52	0	3623.45
MW-61A	10/29/01	3815.97	192.80	0	3623.17
MW-61A	04/15/02	3815.97	193.02	0	3622.95
MW-61A	10/14/02	3815.97	192.02	0	3623.95
MW-61A	04/15/03	3819.97	192.45	0	3627.52
MW-61A	10/14/03	3819.97	193.42	0	3626.55
MW-61A	04/05/04	3819.97	193.65	0	3626.32
MW-61A	10/05/04	3819.97	189.71	0	3630.26
MW-61A	04/19/05	3819.97	192.50	0	3627.47
MW-61A	10/24/05	3819.97	192.12	0	3627.85
MW-61A	04/18/06	3819.97	192.55	0	3627.42
MW-61A	10/11/06	3819.97	191.92	0	3628.05
MW-61A	04/16/07	3819.97	192.59	0	3627.38
MW-61A	10/22/07	3819.97	192.52	0	3627.45
MW-61A	04/02/09	PLUGGED AND ABANDONED			
MW-62	08/21/91	3819.90	189.51	0	3630.39
MW-62	09/18/91	3819.90	189.11	0	3630.79
MW-62	10/22/91	3819.90	190.80	0	3629.10
MW-62	11/15/91	3819.90	189.60	0	3630.30
MW-62	01/16/96	3819.90	192.04	0.01	3627.86
MW-62	04/17/96	3819.90	192.39	0.01	3627.51
MW-62	07/16/96	3819.90	192.34	0	3627.56
MW-62	10/14/96	3819.90	191.45	0.01	3628.45
MW-62	02/04/97	3819.90	192.57	0	3627.33
MW-62	04/28/97	3819.90	192.89	0	3627.01
MW-62	07/15/97	3819.90	193.26	0	3626.64
MW-62	09/30/97	3819.90	194.20	0	3625.70
MW-62	10/09/97	3819.90	194.20	0	3625.70
MW-62	10/14/97	3819.90	193.80	0	3626.10
MW-62	10/29/97	3819.90	194.22	0.01	3625.68
MW-62	11/04/97	3819.90	194.18	0	3625.72
MW-62	11/12/97	3819.90	194.14	0.02	3625.77
MW-62	11/19/97	3819.90	194.30	0.01	3625.60
MW-62	11/24/97	3819.90	194.24	0.01	3625.66
MW-62	12/10/97	3819.90	194.33	0	3625.57
MW-62	01/28/98	3819.90	193.81	0	3626.09
MW-62	02/25/98	3819.90	194.32	0	3625.58
MW-62	04/27/98	3819.90	194.22	0	3625.68
MW-62	05/28/98	3819.90	194.76	0	3625.14
MW-62	06/16/98	3819.90	194.34	0	3625.56
MW-62	10/10/98	3819.90	194.77	0	3625.13
MW-62	01/27/99	3819.90	194.92	0	3624.98
MW-62	04/19/99	3819.90	195.03	0	3624.87
MW-62	01/05/00	3819.90	195.19	0	3624.71
MW-62	04/26/00	3819.90	195.41	0	3624.49
MW-62	09/27/00	3819.90	196.80	0	3623.10
MW-62	04/16/01	3819.90	195.66	0	3624.24
MW-62	10/29/01	3819.90	196.14	0	3623.76
MW-62	04/15/02	3819.90	196.16	0	3623.74
MW-62	10/14/02	3819.90	195.03	0	3624.87
MW-62	04/15/03	3819.90	200.49	0	3619.41
MW-62	10/14/03	3819.90	196.71	0	3623.19
MW-62	04/05/04	3819.90	196.79	0	3623.11
MW-62	10/05/04	3819.90	192.20	0	3627.70
MW-62	04/19/05	3819.90	195.50	0	3624.40
MW-62	10/24/05	3819.90	195.25	0	3624.65
MW-62	04/18/06	3819.90	196.00	0	3623.90
MW-62	10/11/06	3819.90	194.98	0	3624.92
MW-62	04/17/07	3819.90	195.96	0	3623.94
MW-62	10/22/07	3819.90	195.55	0	3624.35
MW-62	04/16/09	PLUGGED AND ABANDONED			
MW-63	08/21/91	3826.16	193.73	0	3632.43

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Appendix A
Historic Fluid Level Data, May 1991 - May 2009
Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-63	09/18/91	3826.16	190.65	0	3635.51
MW-63	10/22/91	3826.16	194.29	0	3631.87
MW-63	11/15/91	3826.16	195.34	0	3630.82
MW-63	03/01/92	3826.16	196.82	0	3629.34
MW-63	04/01/92	3826.16	197.02	0	3629.14
MW-63	05/01/92	3826.16	183.25	0	3642.91
MW-63	06/01/92	3826.16	187.21	0	3638.95
MW-63	07/01/92	3826.16	189.00	0	3637.16
MW-63	08/01/92	3826.16	192.73	0	3633.43
MW-63	09/01/92	3826.16	193.65	0	3632.51
MW-63	10/01/92	3826.16	194.24	0	3631.92
MW-63	11/01/92	3826.16	194.90	0	3631.26
MW-63	12/01/92	3826.16	195.32	0	3630.84
MW-63	01/01/93	3826.16	195.55	0	3630.61
MW-63	02/01/93	3826.16	195.84	0	3630.32
MW-63	03/01/93	3826.16	196.14	0	3630.02
MW-63	04/01/93	3826.16	195.99	0	3630.17
MW-63	05/01/93	3826.16	196.34	0	3629.82
MW-63	06/01/93	3826.16	196.43	0	3629.73
MW-63	07/01/93	3826.16	196.62	0	3629.54
MW-63	08/01/93	3826.16	196.69	0	3629.47
MW-63	09/01/93	3826.16	196.93	0	3629.23
MW-63	10/01/93	3826.16	196.89	0	3629.27
MW-63	11/01/93	3826.16	197.32	0	3628.84
MW-63	12/01/93	3826.16	197.43	0	3628.73
MW-63	01/01/94	3826.16	197.33	0	3628.83
MW-63	02/01/94	3826.16	198.42	0	3627.74
MW-63	03/01/94	3826.16	198.37	0	3627.79
MW-63	04/01/94	3826.16	197.47	0	3628.69
MW-63	05/01/94	3826.16	198.28	0	3627.88
MW-63	07/01/94	3826.16	197.98	0	3628.18
MW-63	08/01/94	3826.16	197.12	0	3629.04
MW-63	09/01/94	3826.16	197.33	0	3628.83
MW-63	10/01/94	3826.16	197.74	0	3628.42
MW-63	12/01/94	3826.16	199.00	0	3627.16
MW-63	01/01/95	3826.16	198.20	0	3627.96
MW-63	04/01/95	3826.16	198.46	0	3627.70
MW-63	07/01/95	3826.16	198.49	0	3627.67
MW-63	10/01/95	3826.16	198.57	0	3627.59
MW-63	01/16/96	3826.16	198.90	0	3627.26
MW-63	04/17/96	3826.16	199.23	0	3626.93
MW-63	07/16/96	3826.16	198.91	0	3627.25
MW-63	10/13/96	3826.16	194.89	0	3631.27
MW-63	02/04/97	3826.16	199.01	0	3627.15
MW-63	04/28/97	3826.16	199.46	0	3626.70
MW-63	07/14/97	3826.16	200.01	0	3626.15
MW-63	10/01/97	3826.16	200.80	0	3625.36
MW-63	10/09/97	3826.16	209.05	0	3617.11
MW-63	10/13/97	3826.16	200.88	0	3625.28
MW-63	01/27/98	3826.16	200.96	0	3625.20
MW-63	04/27/98	3826.16	201.28	0	3624.88
MW-63	05/28/98	3826.16	200.72	0	3625.44
MW-63	06/16/98	3826.16	201.56	0	3624.60
MW-63	10/09/98	3826.16	202.01	0	3624.15
MW-63	01/27/99	3826.16	202.44	0	3623.72
MW-63	04/19/99	3826.16	202.39	0	3623.77
MW-63	01/05/00	3826.16	202.45	0	3623.71
MW-63	04/26/00	3826.16	202.80	0	3623.36
MW-63	09/27/00	3826.16	202.88	0	3623.28
MW-63	04/16/01	3826.16	203.06	0	3623.10
MW-63	10/29/01	3826.16	203.03	0	3623.13
MW-63	04/15/02	3826.16	203.39	0	3622.77
MW-63	10/14/02	3826.16	198.14	0	3628.02
MW-63	04/15/03	3826.16	200.66	0	3625.50
MW-63	10/14/03	3826.16	201.90	0	3624.26
MW-63	04/05/04	3826.16	202.21	0	3623.95
MW-63	10/05/04	3826.16	199.78	0	3626.38
MW-63	04/19/05	3826.16	201.80	0	3624.36
MW-63	10/24/05	3826.16	200.36	0	3625.80
MW-63	04/18/06	3826.16	202.14	0	3624.02
MW-63	10/11/06	3826.16	196.39	0	3629.77
MW-63	04/16/07	3826.16	201.93	0	3624.23
MW-63	10/22/07	3826.16	201.99	0	3624.17
MW-63	03/31/09	PLUGGED AND ABANDONED			
MW-64	08/21/91	3798.57	167.43	0	3631.14
MW-64	09/18/91	3798.57	167.21	0	3631.36

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Appendix A
 Historic Fluid Level Data, May 1991 - May 2009
 Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-64	10/22/91	3798.57	168.66	0	3629.91
MW-64	11/15/91	3798.57	168.90	0	3629.67
MW-64	03/01/92	3798.57	169.20	0	3629.37
MW-64	04/01/92	3798.57	169.00	0	3629.57
MW-64	05/01/92	3798.57	161.58	0	3636.99
MW-64	06/01/92	3798.57	164.25	0	3634.32
MW-64	07/01/92	3798.57	166.36	0	3632.21
MW-64	08/01/92	3798.57	166.82	0	3631.75
MW-64	09/01/92	3798.57	167.17	0	3631.40
MW-64	10/01/92	3798.57	167.45	0	3631.12
MW-64	11/01/92	3798.57	167.63	0	3630.94
MW-64	12/01/92	3798.57	167.85	0	3630.72
MW-64	01/01/93	3798.57	167.99	0	3630.58
MW-64	02/01/93	3798.57	168.08	0	3630.49
MW-64	03/01/93	3798.57	168.26	0	3630.31
MW-64	04/01/93	3798.57	168.22	0	3630.35
MW-64	05/01/93	3798.57	168.52	0	3630.05
MW-64	06/01/93	3798.57	168.46	0	3630.11
MW-64	07/01/93	3798.57	168.70	0	3629.87
MW-64	08/01/93	3798.57	168.59	0	3629.98
MW-64	09/01/93	3798.57	168.83	0	3629.74
MW-64	10/01/93	3798.57	168.88	0	3629.69
MW-64	11/01/93	3798.57	169.09	0	3629.48
MW-64	12/01/93	3798.57	169.13	0	3629.44
MW-64	01/01/94	3798.57	169.12	0	3629.45
MW-64	02/01/94	3798.57	169.92	0	3628.65
MW-64	03/01/94	3798.57	170.05	0	3628.52
MW-64	04/01/94	3798.57	170.03	0	3628.54
MW-64	05/01/94	3798.57	169.89	0	3628.68
MW-64	07/01/94	3798.57	169.65	0	3628.92
MW-64	08/01/94	3798.57	168.39	0	3630.18
MW-64	09/01/94	3798.57	169.32	0	3629.25
MW-64	10/01/94	3798.57	169.56	0	3629.01
MW-64	12/01/94	3798.57	170.71	0	3627.86
MW-64	01/01/95	3798.57	169.94	0	3628.63
MW-64	04/01/95	3798.57	170.13	0	3628.44
MW-64	07/01/95	3798.57	170.24	0	3628.33
MW-64	10/01/95	3798.57	170.33	0	3628.24
MW-64	01/19/96	3798.57	170.87	0	3627.70
MW-64	04/17/96	3798.57	170.98	0	3627.59
MW-64	07/16/96	3798.57	171.27	0.33	3627.54
MW-64	10/13/96	3798.57	170.69	0.29	3628.09
MW-64	02/04/97	3798.57	171.53	0.38	3627.31
MW-64	03/18/97	3798.57	171.95	0.55	3627.02
MW-64	04/28/97	3798.57	171.93	0.55	3627.04
MW-64	07/15/97	3798.57	171.41	0.53	3627.54
MW-64	10/01/97	3798.57	173.70	1.4	3625.89
MW-64	10/09/97	3798.57	173.58	1.28	3625.92
MW-64	10/13/97	3798.57	173.33	1.29	3626.18
MW-64	10/21/97	3798.57	173.34	1.17	3626.08
MW-64	11/12/97	3798.57	176.15	0	3622.42
MW-64	11/19/97	3798.57	173.02	0	3625.55
MW-64	11/24/97	3798.57	174.56	0	3624.01
MW-64	12/10/97	3798.57	174.50	0	3624.07
MW-64	01/06/98	3798.57	174.50	0	3624.07
MW-64	01/15/98	3798.57	174.40	0	3624.17
MW-64	01/20/98	3798.57	174.56	0	3624.01
MW-64	01/28/98	3798.57	174.56	0	3624.01
MW-64	02/03/98	3798.57	173.16	0	3625.41
MW-64	02/25/98	3798.57	172.77	0	3625.80
MW-64	04/27/98	3798.57	172.74	0	3625.83
MW-64	05/28/98	3798.57	173.84	0	3624.73
MW-64	06/15/98	3798.57	173.03	0	3625.54
MW-64	10/10/98	3798.57	173.41	0	3625.16
MW-64	01/27/99	3798.57	173.54	0	3625.03
MW-64	04/19/99	3798.57	173.62	0	3624.95
MW-64	01/05/00	3798.57	173.82	0	3624.75
MW-64	04/26/00	3798.57	173.96	0	3624.61
MW-64	09/27/00	3798.57	174.37	0	3624.20
MW-64	04/16/01	3798.57	174.48	0	3624.09
MW-64	10/29/01	3798.57	174.79	0	3623.78
MW-64	04/15/02	3798.57	174.80	0	3623.77
MW-64	10/14/02	3798.57	173.94	0	3624.63
MW-64	04/15/03	3798.57	174.22	0	3624.35
MW-64	10/14/03	3798.57	175.25	0	3623.32
MW-64	04/05/04	3798.57	175.36	0	3623.21
MW-64	10/05/04	3798.57	170.85	0	3627.72

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Appendix A
 Historic Fluid Level Data, May 1991 - May 2009
 Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-64	04/19/05	3798.57	174.14	0	3624.43
MW-64	10/24/05	3798.57	173.86	0	3624.71
MW-64	04/18/06	3798.57	174.54	0	3624.03
MW-64	10/11/06	3798.57	173.76	0	3624.81
MW-64	04/17/07	3798.57	174.5	0	3624.07
MW-64	10/22/07	3798.57	174.17	0	3624.40
MW-64	04/15/09	PLUGGED AND ABANDONED			
MW-65A	08/21/91	3763.26	131.36	0	3631.90
MW-65A	09/18/91	3763.26	130.91	0	3632.35
MW-65A	10/22/91	3763.26	133.09	0	3630.17
MW-65A	11/15/91	3763.26	133.70	0	3629.56
MW-65A	01/16/96	3763.26	136.11	1.3	3628.09
MW-65A	06/15/98	3763.26	137.96	0.93	3625.97
MW-65A	01/05/00	3763.26	139.58	0.97	3624.39
MW-65A	04/26/00	3763.26	138.78	0	3624.48
MW-65A	09/27/00	3763.26	139.93	0	3623.33
MW-65A	04/16/01	3763.26	139.61	0	3623.65
MW-65A	10/29/01	3763.26	139.99	0	3623.27
MW-65A	04/15/02	3763.26	140.06	0.9	3623.86
MW-65A	10/14/02	3763.26	138.45	0	3624.81
MW-65A	02/13/03	3763.26	139.74	0	3623.52
MW-65A	03/10/03	3763.26	140.22	0	3623.04
MW-65A	04/15/03	3763.26	139.05	0	3624.21
MW-65A	05/15/03	3763.26	140.03	0.35	3623.49
MW-65A	06/05/03	3763.26	140.00	0.38	3623.54
MW-65A	07/15/03	3763.26	140.16	0.42	3623.41
MW-65A	08/06/03	3763.26	140.22	0.42	3623.35
MW-65A	09/12/03	3763.26	140.10	0.09	3623.23
MW-65A	10/14/03	3763.26	140.09	0	3623.17
MW-65A	11/07/03	3763.26	140.29	0	3622.97
MW-65A	12/04/03	3763.26	140.25	0	3623.01
MW-65A	01/08/04	3763.26	140.31	0	3622.95
MW-65A	02/12/04	3763.26	140.43	0	3622.83
MW-65A	03/25/04	3763.26	140.41	0	3622.85
MW-65A	04/05/04	3763.26	140.31	0	3622.95
MW-65A	05/27/04	3763.26	140.07	0	3623.19
MW-65A	06/17/04	3763.26	139.62	0	3623.64
MW-65A	07/15/04	3763.26	139.64	0	3623.62
MW-65A	08/19/04	3763.26	138.51	0	3624.75
MW-65A	09/09/04	3763.26	139.27	0	3623.99
MW-65A	10/05/04	3763.26	135.53	0	3627.73
MW-65A	11/19/04	3763.26	136.27	0	3626.99
MW-65A	12/07/04	3763.26	137.62	0	3625.64
MW-65A	01/11/05	3763.26	138.04	0	3625.22
MW-65A	02/08/05	3763.26	138.31	0	3624.95
MW-65A	03/08/05	3763.26	138.57	0	3624.69
MW-65A	04/19/05	3763.26	138.88	0	3624.38
MW-65A	05/09/05	3763.26	138.86	0	3624.40
MW-65A	06/21/05	3763.26	139.04	0	3624.22
MW-65A	07/19/05	3763.26	138.97	0	3624.29
MW-65A	08/08/05	3763.26	139.03	0	3624.23
MW-65A	09/20/05	3763.26	138.12	0	3625.14
MW-65A	10/24/05	3763.26	138.53	0	3624.73
MW-65A	04/18/06	3763.26	139.30	0	3623.96
MW-65A	10/11/06	3763.26	136.24	0	3627.02
MW-65A	04/17/07	3763.26	139.28	0	3623.98
MW-65A	10/22/07	3763.26	138.92	0	3624.34
MW-65A	04/14/09	PLUGGED AND ABANDONED			
MW-66	08/21/91	3828.98	196.77	0	3632.21
MW-66	09/18/91	3828.98	198.73	0	3630.25
MW-66	10/22/91	3828.98	199.70	0	3629.28
MW-66	11/15/91	3828.98	199.88	0	3629.10
MW-66	03/01/92	3828.98	200.37	0	3628.61
MW-66	04/01/92	3828.98	200.25	0	3628.73
MW-66	05/01/92	3828.98	195.25	0	3633.73
MW-66	06/01/92	3828.98	196.08	0	3632.90
MW-66	07/01/92	3828.98	197.35	0	3631.63
MW-66	08/01/92	3828.98	197.77	0	3631.21
MW-66	09/01/92	3828.98	198.17	0	3630.81
MW-66	10/01/92	3828.98	198.40	0	3630.58
MW-66	11/01/92	3828.98	198.76	0	3630.22
MW-66	12/01/92	3828.98	198.98	0	3630.00
MW-66	01/01/93	3828.98	199.10	0	3629.88
MW-66	02/01/93	3828.98	199.23	0	3629.75
MW-66	03/01/93	3828.98	199.49	0	3629.49

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Appendix A
 Historic Fluid Level Data, May 1991 - May 2009
 Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-66	04/01/93	3828.98	199.38	0	3629.60
MW-66	05/01/93	3828.98	199.63	0	3629.35
MW-66	06/01/93	3828.98	199.59	0	3629.39
MW-66	07/01/93	3828.98	199.82	0	3629.16
MW-66	08/01/93	3828.98	199.78	0	3629.20
MW-66	09/01/93	3828.98	200.01	0	3628.97
MW-66	10/01/93	3828.98	200.09	0	3628.89
MW-66	11/01/93	3828.98	200.35	0	3628.63
MW-66	12/01/93	3828.98	200.42	0	3628.56
MW-66	01/01/94	3828.98	200.33	0	3628.65
MW-66	02/01/94	3828.98	201.39	0	3627.59
MW-66	03/01/94	3828.98	201.44	0	3627.54
MW-66	04/01/94	3828.98	201.36	0	3627.62
MW-66	05/01/94	3828.98	201.26	0	3627.72
MW-66	07/01/94	3828.98	200.91	0	3628.07
MW-66	08/01/94	3828.98	199.86	0	3629.12
MW-66	09/01/94	3828.98	200.66	0	3628.32
MW-66	10/01/94	3828.98	200.83	0	3628.15
MW-66	12/01/94	3828.98	201.96	0	3627.02
MW-66	01/01/95	3828.98	201.04	0	3627.94
MW-66	04/01/95	3828.98	202.26	0	3626.72
MW-66	07/01/95	3828.98	201.59	0	3627.39
MW-66	10/01/95	3828.98	201.62	0	3627.36
MW-66	01/16/96	3828.98	200.89	0	3628.09
MW-66	04/17/96	3828.98	202.29	0	3626.69
MW-66	07/16/96	3828.98	202.45	0	3626.53
MW-66	10/13/96	3828.98	200.80	0	3628.18
MW-66	02/04/97	3828.98	202.60	0	3626.38
MW-66	04/28/97	3828.98	202.84	0	3626.14
MW-66	07/14/97	3828.98	202.72	0	3626.26
MW-66	09/30/97	3828.98	204.00	0	3624.98
MW-66	10/09/97	3828.98	204.20	0	3624.78
MW-66	10/13/97	3828.98	203.77	0	3625.21
MW-66	01/27/98	3828.98	203.79	0	3625.19
MW-66	04/27/98	3828.98	204.09	0	3624.89
MW-66	05/28/98	3828.98	204.18	0	3624.80
MW-66	06/15/98	3828.98	204.37	0	3624.61
MW-66	10/10/98	3828.98	204.86	0	3624.12
MW-66	01/27/99	3828.98	205.05	0	3623.93
MW-66	04/19/99	3828.98	205.10	0	3623.88
MW-66	01/05/99	3828.98	205.13	0	3623.85
MW-66	04/26/00	3828.98	205.41	0	3623.57
MW-66	09/27/00	3828.98	205.78	0	3623.20
MW-66	04/16/01	3828.98	205.59	0	3623.39
MW-66	10/29/01	3828.98	206.04	0	3622.94
MW-66	04/15/02	3828.98	205.98	0	3623.00
MW-66	10/14/02	3828.98	199.87	0	3629.11
MW-66	04/15/03	3828.98	205.39	0	3623.59
MW-66	10/14/03	3828.98	206.41	0	3622.57
MW-66	04/05/04	3828.98	206.65	0	3622.33
MW-66	10/05/04	3828.98	203.05	0	3625.93
MW-66	04/19/05	3828.98	205.48	0	3623.50
MW-66	10/24/05	3828.98	204.97	0	3624.01
MW-66	04/18/06	3828.98	205.44	0	3623.54
MW-66	10/11/06	3828.98	204.64	0	3624.34
MW-66	04/16/07	3828.98	205.51	0	3623.47
MW-66	10/22/07	3828.98	205.29	0	3623.69
MW-66	05/27/09	3828.98	206.47	0	3622.51
MW-67	09/18/91	3765.87	133.99	0	3631.88
MW-67	10/22/91	3765.87	135.74	0	3630.13
MW-67	11/15/91	3765.87	136.00	0	3629.87
MW-67	03/01/92	3765.87	136.35	0	3629.52
MW-67	04/01/92	3765.87	136.25	0	3629.62
MW-67	05/01/92	3765.87	127.66	0	3638.21
MW-67	06/01/92	3765.87	131.08	0	3634.79
MW-67	07/01/92	3765.87	133.24	0	3632.63
MW-67	08/01/92	3765.87	133.89	0	3631.98
MW-67	09/01/92	3765.87	134.24	0	3631.63
MW-67	10/01/92	3765.87	134.33	0	3631.54
MW-67	11/01/92	3765.87	134.76	0	3631.11
MW-67	12/01/92	3765.87	135.00	0	3630.87
MW-67	01/01/93	3765.87	135.10	0	3630.77
MW-67	02/01/93	3765.87	135.19	0	3630.68
MW-67	03/01/93	3765.87	135.39	0	3630.48
MW-67	04/01/93	3765.87	135.37	0	3630.50
MW-67	05/01/93	3765.87	135.63	0	3630.24

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Appendix A
Historic Fluid Level Data, May 1991 - May 2009
Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-67	06/01/93	3765.87	135.58	0	3630.29
MW-67	07/01/93	3765.87	135.81	0	3630.06
MW-67	08/01/93	3765.87	135.69	0	3630.18
MW-67	09/01/93	3765.87	135.99	0	3629.88
MW-67	10/01/93	3765.87	136.04	0	3629.83
MW-67	11/01/93	3765.87	136.26	0	3629.61
MW-67	12/01/93	3765.87	136.31	0	3629.56
MW-67	01/01/94	3765.87	136.25	0	3629.62
MW-67	02/01/94	3765.87	137.16	0	3628.71
MW-67	03/01/94	3765.87	137.22	0	3628.65
MW-67	04/01/94	3765.87	137.31	0	3628.56
MW-67	05/01/94	3765.87	137.14	0	3628.73
MW-67	07/01/94	3765.87	136.82	0	3629.05
MW-67	08/01/94	3765.87	135.55	0	3630.32
MW-67	09/01/94	3765.87	136.58	0	3629.29
MW-67	10/01/94	3765.87	136.71	0	3629.16
MW-67	12/01/94	3765.87	137.89	0	3627.98
MW-67	01/01/95	3765.87	137.09	0	3628.78
MW-67	04/01/95	3765.87	137.29	0	3628.58
MW-67	07/01/95	3765.87	137.40	0	3628.47
MW-67	10/01/95	3765.87	137.54	0	3628.33
MW-67	01/19/96	3765.87	138.02	0	3627.85
MW-67	04/17/96	3765.87	138.13	0	3627.74
MW-67	07/16/96	3765.87	138.14	0	3627.73
MW-67	10/14/96	3765.87	137.53	0	3628.34
MW-67	02/04/97	3765.87	138.37	0	3627.50
MW-67	04/28/97	3765.87	138.64	0	3627.23
MW-67	07/15/97	3765.87	138.95	0	3626.92
MW-67	10/01/97	3765.87	140.50	0.8	3625.95
MW-67	10/09/97	3765.87	144.05	4.35	3624.99
MW-67	10/13/97	3765.87	139.98	0.67	3626.37
MW-67	10/21/97	3765.87	140.55	0.75	3625.86
MW-67	10/29/97	3765.87	140.54	0.83	3625.93
MW-67	11/04/97	3765.87	140.43	0.75	3625.98
MW-67	11/12/97	3765.87	140.52	0.87	3625.98
MW-67	11/19/97	3765.87	140.55	0.77	3625.88
MW-67	11/24/97	3765.87	140.70	0.95	3625.86
MW-67	12/10/97	3765.87	140.57	0.85	3625.92
MW-67	01/06/98	3765.87	139.76	0	3626.11
MW-67	01/15/98	3765.87	139.75	0	3626.12
MW-67	01/20/98	3765.87	141.43	0.9	3625.09
MW-67	01/28/98	3765.87	140.14	0.77	3626.29
MW-67	02/03/98	3765.87	141.33	0.73	3625.07
MW-67	02/10/98	3765.87	141.32	0	3624.55
MW-67	02/17/98	3765.87	141.81	0.44	3624.38
MW-67	02/25/98	3765.87	141.12	0	3624.75
MW-67	04/27/98	3765.87	141.13	0.65	3625.21
MW-67	05/28/98	3765.87	141.43	0	3624.44
MW-67	06/15/98	3765.87	141.49	0	3624.38
MW-67	10/10/98	3765.87	140.50	0.05	3625.40
MW-67	04/19/99	3765.87	140.72	0	3625.15
MW-67	01/05/00	3765.87	140.77	0.47	3625.44
MW-67	04/26/00	3765.87	141.72	0	3624.15
MW-67	09/27/00	3765.87	141.51	0	3624.36
MW-67	04/16/01	3765.87	141.54	0	3624.33
MW-67	10/29/01	3765.87	141.49	0	3624.38
MW-67	04/15/02	3765.87	141.67	0	3624.20
MW-67	10/14/02	3765.87	140.89	0	3624.98
MW-67	04/15/03	3765.87	141.34	0	3624.53
MW-67	10/14/03	3765.87	142.41	0	3623.46
MW-67	04/05/04	3765.87	142.48	0	3623.39
MW-67	10/05/04	3765.87	137.90	0	3627.97
MW-67	04/19/05	3765.87	141.24	0	3624.63
MW-67	10/24/05	3765.87	141.42	0	3624.45
MW-67	04/18/06	3765.87	141.64	0	3624.23
MW-67	10/11/06	3765.87	140.87	0	3625.00
MW-67	04/17/07	3765.87	141.61	0	3624.26
MW-67	10/22/07	3765.87	141.27	0	3624.60
MW-67	04/15/09	PLUGGED AND ABANDONED			
MW-68	09/18/91	3797.83	166.68	0	3631.15
MW-68	10/22/91	3797.83	169.37	0	3628.46
MW-68	11/15/91	3797.83	167.30	0	3630.53
MW-68	10/14/97	3797.83	171.76	0	3626.07
MW-68	01/27/98	3797.83	173.22	1.99	3626.06
MW-68	06/17/98	3797.83	172.90	0.85	3625.55
MW-68	01/05/00	3797.83	173.17	0	3624.66

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Historic Fluid Level Data, May 1991 - May 2009
Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-68	04/26/00	3797.83	173.30	0.18	3624.66
MW-68	09/27/00	3797.83	173.72	0	3624.11
MW-68	04/16/01	3797.83	175.00	1.23	3623.73
MW-68	10/29/01	3797.83	174.42	0.56	3623.82
MW-68	04/15/02	3797.83	174.69	0.38	3623.42
MW-68	10/14/02	3797.83	172.68	0	3625.15
MW-68	04/15/03	3797.83	174.11	0.12	3623.81
MW-68	10/14/03	3797.83	174.71	0.03	3623.14
MW-68	04/05/04	3797.83	175.00	0	3622.83
MW-68	10/05/04	3797.83	171.70	0	3626.13
MW-68	04/19/05	3797.83	173.44	0	3624.39
MW-68	10/24/05	3797.83	172.97	0	3624.86
MW-68	04/18/06	3797.83	173.64	0	3624.19
MW-68	10/11/06	3797.83	172.39	0	3625.44
MW-68	04/16/07	3797.83	173.87	0	3623.96
MW-68	10/22/07	3797.83	173.47	0	3624.36
MW-68	04/01/09	PLUGGED AND ABANDONED			
MW-70	09/18/91	3822.57	191.59	0	3630.98
MW-70	10/22/91	3822.57	191.68	0	3630.89
MW-70	11/15/91	3822.57	192.20	0	3630.37
MW-70	03/01/92	3822.57	192.74	0	3629.83
MW-70	04/01/92	3822.57	192.62	0	3629.95
MW-70	05/01/92	3822.57	189.97	0	3632.60
MW-70	06/01/92	3822.57	188.42	0	3634.15
MW-70	07/01/92	3822.57	188.87	0	3633.70
MW-70	08/01/92	3822.57	189.54	0	3633.03
MW-70	09/01/92	3822.57	190.02	0	3632.55
MW-70	10/01/92	3822.57	190.48	0	3632.09
MW-70	11/01/92	3822.57	190.86	0	3631.71
MW-70	12/01/92	3822.57	191.17	0	3631.40
MW-70	01/01/93	3822.57	191.39	0	3631.18
MW-70	02/01/93	3822.57	191.54	0	3631.03
MW-70	03/01/93	3822.57	191.77	0	3630.80
MW-70	04/01/93	3822.57	191.80	0	3630.77
MW-70	05/01/93	3822.57	192.09	0	3630.48
MW-70	06/01/93	3822.57	192.18	0	3630.39
MW-70	07/01/93	3822.57	192.32	0	3630.25
MW-70	08/01/93	3822.57	192.30	0	3630.27
MW-70	09/01/93	3822.57	192.53	0	3630.04
MW-70	10/01/93	3822.57	192.65	0	3629.92
MW-70	11/01/93	3822.57	192.91	0	3629.66
MW-70	12/01/93	3822.57	192.96	0	3629.61
MW-70	01/01/94	3822.57	192.99	0	3629.58
MW-70	02/01/94	3822.57	194.02	0	3628.55
MW-70	03/01/94	3822.57	194.00	0	3628.57
MW-70	04/01/94	3822.57	193.19	0	3629.38
MW-70	05/01/94	3822.57	193.86	0	3628.71
MW-70	07/01/94	3822.57	193.59	0	3628.98
MW-70	08/01/94	3822.57	193.09	0	3629.48
MW-70	09/01/94	3822.57	193.17	0	3629.40
MW-70	10/01/94	3822.57	193.38	0	3629.19
MW-70	12/01/94	3822.57	194.58	0	3627.99
MW-70	01/01/95	3822.57	192.83	0	3629.74
MW-70	04/01/95	3822.57	194.11	0	3628.46
MW-70	07/01/95	3822.57	194.19	0	3628.38
MW-70	10/01/95	3822.57	194.19	0	3628.38
MW-70	01/16/96	3822.57	194.68	0	3627.89
MW-70	04/17/96	3822.57	194.94	0	3627.63
MW-70	07/15/96	3822.57	194.70	0	3627.87
MW-70	10/13/96	3822.57	193.98	0	3628.59
MW-70	02/03/97	3822.57	194.47	0	3628.10
MW-70	04/28/97	3822.57	195.01	0	3627.56
MW-70	07/14/97	3822.57	195.44	0	3627.13
MW-70	10/01/97	3822.57	196.20	0	3626.37
MW-70	10/13/97	3822.57	196.05	0	3626.52
MW-70	10/29/97	3822.57	196.24	0.01	3626.33
MW-70	11/04/97	3822.57	196.35	0	3626.22
MW-70	11/12/97	3822.57	196.34	0	3626.23
MW-70	11/19/97	3822.57	196.36	0.01	3626.21
MW-70	11/24/97	3822.57	196.36	0	3626.21
MW-70	12/10/97	3822.57	196.47	0	3626.10
MW-70	01/27/98	3822.57	196.22	0	3626.35
MW-70	02/25/98	3822.57	196.45	0	3626.12
MW-70	04/27/98	3822.57	196.48	0	3626.09
MW-70	05/28/98	3822.57	196.91	0	3625.66
MW-70	06/15/98	3822.57	196.74	0	3625.83

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Historic Fluid Level Data, May 1991 - May 2009
Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-70	10/09/98	3822.57	197.27	0	3625.30
MW-70	01/27/99	3822.57	199.24	0	3623.33
MW-70	04/19/99	3822.57	197.40	0	3625.17
MW-70	01/05/00	3822.57	197.73	0	3624.84
MW-70	04/26/00	3822.57	197.71	0	3624.86
MW-70	09/27/00	3822.57	198.02	0	3624.55
MW-70	04/16/01	3822.57	198.34	0	3624.23
MW-70	10/29/01	3822.57	198.30	0	3624.27
MW-70	04/15/02	3822.57	198.85	0	3623.72
MW-70	10/14/02	3822.57	196.95	0	3625.62
MW-70	04/15/03	3822.57	198.12	0	3624.45
MW-70	10/14/03	3822.57	199.14	0	3623.43
MW-70	04/05/04	3822.57	199.41	0	3623.16
MW-70	10/05/04	3822.57	197.30	0	3625.27
MW-70	04/19/05	3822.57	197.70	0	3624.87
MW-70	10/24/05	3822.57	197.24	0	3625.33
MW-70	04/18/06	3822.57	198.46	0	3624.11
MW-70	10/11/06	3822.57	196.99	0	3625.58
MW-70	04/17/07	3822.57	198.51	0	3624.06
MW-70	10/22/07	3822.57	198.03	0	3624.54
MW-70	05/27/09	3822.57	199.45	0	3623.12
MW-71	10/01/93	3778.05	149.68	0	3628.37
MW-71	11/01/93	3778.05	149.90	0	3628.15
MW-71	12/01/93	3778.05	149.93	0	3628.12
MW-71	01/01/94	3778.05	149.92	0	3628.13
MW-71	02/01/94	3778.05	150.94	0	3627.11
MW-71	03/01/94	3778.05	150.90	0	3627.15
MW-71	04/01/94	3778.05	149.98	0	3628.07
MW-71	05/01/94	3778.05	150.64	0	3627.41
MW-71	07/01/94	3778.05	150.37	0	3627.68
MW-71	08/01/94	3778.05	149.35	0	3628.70
MW-71	09/01/94	3778.05	150.19	0	3627.86
MW-71	10/01/94	3778.05	150.41	0	3627.64
MW-71	12/01/94	3778.05	151.41	0	3626.64
MW-71	01/01/95	3778.05	150.65	0	3627.40
MW-71	04/01/95	3778.05	150.88	0	3627.17
MW-71	07/01/95	3778.05	150.84	0	3627.21
MW-71	10/01/95	3778.05	151.15	0	3626.90
MW-71	01/16/96	3778.05	151.36	0	3626.69
MW-71	04/17/96	3778.05	151.74	0	3626.31
MW-71	07/16/96	3778.05	151.69	0	3626.36
MW-71	10/13/96	3778.05	149.72	0	3628.33
MW-71	02/04/97	3778.05	152.39	0	3625.66
MW-71	04/28/97	3778.05	152.52	0	3625.53
MW-71	07/14/97	3778.05	152.86	0	3625.19
MW-71	10/01/97	3778.05	153.40	0	3624.65
MW-71	10/09/97	3778.05	153.41	0.01	3624.64
MW-71	10/13/97	3778.05	153.39	0	3624.66
MW-71	01/28/98	3778.05	153.47	0	3624.58
MW-71	04/27/98	3778.05	153.91	0	3624.14
MW-71	05/28/98	3778.05	153.86	0	3624.19
MW-71	06/15/98	3778.05	153.88	0	3624.17
MW-71	10/10/98	3778.05	154.34	0	3623.71
MW-71	01/27/99	3778.05	154.50	0	3623.55
MW-71	04/19/99	3778.05	154.56	0	3623.49
MW-71	01/05/00	3778.05	154.66	0	3623.39
MW-71	04/26/00	3778.05	155.04	0	3623.01
MW-71	09/27/00	3778.05	155.15	0	3622.90
MW-71	04/16/01	3778.05	155.01	0	3623.04
MW-71	10/29/01	3778.05	155.26	0	3622.79
MW-71	04/15/02	3778.05	155.50	0	3622.55
MW-71	10/14/02	3778.05	154.39	0	3623.66
MW-71	04/15/03	3778.05	155.02	0	3623.03
MW-71	10/14/03	3778.05	155.85	0	3622.20
MW-71	04/05/04	3778.05	155.94	0	3622.11
MW-71	10/05/04	3778.05	152.59	0	3625.46
MW-71	04/19/05	3778.05	154.88	0	3623.17
MW-71	10/24/05	3778.05	154.60	0	3623.45
MW-71	04/18/06	3778.05	155.08	0	3622.97
MW-71	10/11/06	3778.05	154.40	0	3623.65
MW-71	04/30/07	3778.05	155.16	0	3622.89
MW-71	10/22/07	3778.05	154.92	0	3623.13
MW-71	04/02/09	PLUGGED AND ABANDONED			
MW-72	10/01/93	3819.32	190.55	0.5	3629.14
MW-72	11/01/93	3819.32	189.91	0	3629.41

D = Dry
 NA = Not Available
 NG = Not Gauged
 NR = No Record

Appendix A
 Historic Fluid Level Data, May 1991 - May 2009
 Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-72	12/01/93	3819.32	196.73	3.72	3625.30
MW-72	01/16/96	3819.32	216.76	16.5	3614.60
MW-72	04/17/96	3819.32	214.60	16.35	3616.65
MW-72	07/16/96	3819.32	201.95	11.85	3626.02
MW-72	10/14/96	3819.32	211.05	5.84	3612.53
MW-72	02/04/97	3819.32	213.65	1.22	3606.56
MW-72	04/29/97	3819.32	197.65	2.72	3623.65
MW-72	07/15/97	3819.32	212.06	6.71	3612.15
MW-72	10/09/97	3819.32	228.35	0	3590.97
MW-72	10/14/97	3819.32	229.54	0	3589.78
MW-72	10/29/97	3819.32	229.55	0	3589.77
MW-72	11/04/97	3819.32	227.75	0	3591.57
MW-72	11/12/97	3819.32	227.83	0	3591.49
MW-72	11/19/97	3819.32	206.30	0.26	3613.20
MW-72	11/24/97	3819.32	227.73	0	3591.59
MW-72	12/10/97	3819.32	228.74	0	3590.58
MW-72	01/06/98	3819.32	228.54	0.02	3590.79
MW-72	01/15/98	3819.32	228.50	0	3590.82
MW-72	01/20/98	3819.32	228.92	0	3590.40
MW-72	02/03/98	3819.32	220.23	0	3599.09
MW-72	02/10/98	3819.32	224.93	0	3594.39
MW-72	02/17/98	3819.32	224.27	0	3595.05
MW-72	02/25/98	3819.32	224.67	0	3594.65
MW-72	04/27/98	3819.32	216.73	0	3602.59
MW-72	05/28/98	3819.32	229.14	0	3590.18
MW-72	06/16/98	3819.32	222.68	0	3596.64
MW-72	10/11/98	3819.32	196.22	0	3623.10
MW-72	01/27/99	3819.32	229.90	0.01	3589.43
MW-72	04/19/99	3819.32	229.80	0	3589.52
MW-72	01/05/00	3819.32	209.27	0	3610.05
MW-72	04/26/00	3819.32	196.20	0	3623.12
MW-72	09/27/00	3819.32	211.13	0	3608.19
MW-72	04/16/01	3819.32	211.42	0	3607.90
MW-72	10/29/01	3819.32	216.42	0	3602.90
MW-72	04/15/02	3819.32	197.90	0	3621.42
MW-72	10/14/02	3819.32	197.35	0.68	3622.47
MW-72	02/13/03	3819.32	198.20	0.32	3621.35
MW-72	03/10/03	3819.32	198.22	0.7	3621.61
MW-72	04/15/03	3819.32	198.40	0.60	3621.36
MW-72	05/15/03	3819.32	198.37	0.39	3621.23
MW-72	06/24/03	3819.32	197.15	0	3622.17
MW-72	07/15/03	3819.32	198.24	0.25	3621.26
MW-72	08/08/03	3819.32	198.13	0	3621.19
MW-72	09/12/03	3819.32	198.35	0	3620.97
MW-72	10/14/03	3819.32	198.42	0.1	3620.97
MW-72	11/07/03	3819.32	198.61	0.01	3620.72
MW-72	12/04/03	3819.32	198.60	0	3620.72
MW-72	01/08/04	3819.32	198.60	0	3620.72
MW-72	02/12/04	3819.32	198.71	0	3620.61
MW-72	03/25/04	3819.32	198.71	0	3620.61
MW-72	04/05/04	3819.32	198.53	0	3620.79
MW-72	05/27/04	3819.32	197.60	0	3621.72
MW-72	06/17/04	3819.32	198.07	0	3621.25
MW-72	07/15/04	3819.32	198.31	0	3621.01
MW-72	08/19/04	3819.32	197.11	0	3622.21
MW-72	09/09/04	3819.32	198.71	0	3620.61
MW-72	10/05/04	3819.32	194.85	0	3624.47
MW-72	11/19/04	3819.32	195.19	0	3624.13
MW-72	12/07/04	3819.32	196.02	0	3623.30
MW-72	01/11/05	3819.32	196.44	0	3622.88
MW-72	02/08/05	3819.32	196.65	0	3622.67
MW-72	03/08/05	3819.32	195.91	0	3623.41
MW-72	04/19/05	3819.32	197.18	0	3622.14
MW-72	05/09/05	3819.32	197.16	0	3622.16
MW-72	06/21/05	3819.32	197.38	0	3621.94
MW-72	07/19/05	3819.32	197.26	0	3622.06
MW-72	08/08/05	3819.32	197.28	0	3622.04
MW-72	09/20/05	3819.32	196.33	0	3622.99
MW-72	10/24/05	3819.32	196.75	0	3622.57
MW-72	04/18/06	3819.32	197.37	0	3621.95
MW-72	10/11/06	3819.32	196.45	0	3622.87
MW-72	04/17/07	3819.32	197.44	0	3621.88
MW-72	10/22/07	3819.32	196.86	0	3622.46
MW-72	04/09/09	PLUGGED AND ABANDONED			
MW-73	12/01/94	3820.09	202.90	6.12	3621.65
MW-73	01/01/95	3820.09	195.75	1.68	3625.57

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Appendix A
 Historic Fluid Level Data, May 1991 - May 2009
 Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-73	04/01/95	3820.09	207.07	8.52	3619.23
MW-73	07/01/95	3820.09	204.48	6.72	3620.51
MW-73	10/01/95	3820.09	192.35	0	3627.74
MW-73	01/16/96	3820.09	192.66	0	3627.43
MW-73	04/17/96	3820.09	204.10	1.86	3617.34
MW-73	07/16/96	3820.09	193.91	1.61	3627.35
MW-73	10/14/96	3820.09	191.42	0.01	3628.67
MW-73	02/04/97	3820.09	193.00	0	3627.09
MW-73	04/29/97	3820.09	194.09	0.68	3626.49
MW-73	07/15/97	3820.09	193.70	0	3626.39
MW-73	09/30/97	3820.09	195.00	0.9	3625.74
MW-73	10/09/97	3820.09	194.92	0.72	3625.69
MW-73	10/14/97	3820.09	195.15	0	3624.94
MW-73	01/28/98	3820.09	194.50	0	3625.59
MW-73	04/27/98	3820.09	194.40	0	3625.69
MW-73	05/28/98	3820.09	194.66	0	3625.43
MW-73	06/16/98	3820.09	194.67	0	3625.42
MW-73	10/10/98	3820.09	194.47	0	3625.62
MW-73	01/27/99	3820.09	195.14	0	3624.95
MW-73	04/19/99	3820.09	195.80	0	3624.29
MW-73	01/05/00	3820.09	195.89	0	3624.20
MW-73	04/26/00	3820.09	195.79	0	3624.30
MW-73	09/27/00	3820.09	196.13	0	3623.96
MW-73	04/16/01	3820.09	196.15	0	3623.94
MW-73	10/29/01	3820.09	196.45	0	3623.64
MW-73	04/15/02	3820.09	196.24	0	3623.85
MW-73	10/14/02	3820.09	195.09	0	3625.00
MW-73	04/15/03	3820.09	195.70	0	3624.39
MW-73	10/14/03	3820.09	196.86	0	3623.23
MW-73	04/05/04	3820.09	196.95	0	3623.14
MW-73	10/05/04	3820.09	193.14	0	3626.95
MW-73	04/19/05	3820.09	195.54	0	3624.55
MW-73	04/18/06	3820.09	195.99	0	3624.10
MW-73	10/11/06	3820.09	194.92	0	3625.17
MW-73	04/17/07	3820.09	196.01	0	3624.08
MW-73	10/22/07	3820.09	195.52	0	3624.57
MW-73	04/09/09	PLUGGED AND ABANDONED			
MW-74	12/01/94	3820.82	192.31	0	3628.51
MW-74	01/01/95	3820.82	193.88	1.44	3627.99
MW-74	04/01/95	3820.82	189.31	0.48	3631.86
MW-74	07/01/95	3820.82	188.07	0	3632.75
MW-74	01/16/96	3820.82	188.65	0	3632.17
MW-74	04/17/96	3820.82	187.30	0	3633.52
MW-74	07/16/96	3820.82	186.52	0	3634.30
MW-74	10/14/96	3820.82	178.77	0	3642.05
MW-74	02/04/97	3820.82	182.50	0	3638.32
MW-74	04/29/97	3820.82	183.92	0	3636.90
MW-74	07/15/97	3820.82	183.74	0	3637.08
MW-74	09/30/97	3820.82	185.30	0	3635.52
MW-74	10/09/97	3820.82	185.25	0	3635.57
MW-74	10/14/97	3820.82	185.77	0	3635.05
MW-74	01/28/98	3820.82	184.15	0	3636.67
MW-74	04/27/98	3820.82	184.44	0	3636.38
MW-74	05/28/98	3820.82	134.12	0	3686.70
MW-74	06/16/98	3820.82	187.47	0	3633.35
MW-74	10/10/98	3820.82	189.19	0	3631.63
MW-74	01/27/99	3820.82	186.50	0	3634.32
MW-74	04/19/99	3820.82	133.90	0	3686.92
MW-74	01/05/00	3820.82	189.39	0	3631.43
MW-74	04/26/00	3820.82	196.45	0	3624.37
MW-74	09/27/00	3820.82	197.29	0	3623.53
MW-74	04/16/01	3820.82	197.57	0	3623.25
MW-74	10/29/01	3820.82	196.91	0	3623.91
MW-74	04/15/02	3820.82	197.27	0	3623.55
MW-74	10/14/02	3820.82	196.32	0.25	3624.68
MW-74	04/15/03	3820.82	196.72	0	3624.10
MW-74	10/14/03	3820.82	197.60	0	3623.22
MW-74	04/05/04	3820.82	197.70	0	3623.12
MW-74	10/05/04	3820.82	194.04	0	3626.78
MW-74	04/19/05	3820.82	196.30	0	3624.52
MW-74	10/24/05	3820.82	195.91	0	3624.91
MW-74	04/18/06	3820.82	196.75	0	3624.07
MW-74	10/11/06	3820.82	195.68	0	3625.14
MW-74	04/17/07	3820.82	192.78	0	3628.04
MW-74	10/22/07	3820.82	196.29	0	3624.53
MW-74	04/09/09	PLUGGED AND ABANDONED			

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 NR = No Record

Appendix A
Historic Fluid Level Data, May 1991 - May 2009
Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-75	12/01/94	3816.12	228.96	23.04	3603.98
MW-75	01/01/95	3816.12	209.93	12.72	3615.47
MW-75	04/01/95	3816.12	251.13	35.4	3590.83
MW-75	07/01/95	3816.12	295.32	59.52	3564.24
MW-75	01/18/96	3816.12	197.10	3.1	3621.28
MW-75	04/17/96	3816.12	189.17	0.04	3626.97
MW-75	07/16/96	3816.12	190.40	1.76	3627.00
MW-75	10/14/96	3816.12	190.01	1.79	3627.41
MW-75	02/04/97	3816.12	193.45	0	3622.67
MW-75	04/29/97	3816.12	200.64	3.34	3617.91
MW-75	07/15/97	3816.12	200.95	6.17	3619.67
MW-75	10/09/97	3816.12	200.87	4.59	3618.60
MW-75	10/14/97	3816.12	200.86	2.76	3617.27
MW-75	10/29/97	3816.12	200.62	0.54	3615.89
MW-75	11/04/97	3816.12	200.76	3.52	3617.92
MW-75	11/12/97	3816.12	196.10	0	3620.02
MW-75	11/19/97	3816.12	199.10	2.75	3619.02
MW-75	11/24/97	3816.12	200.42	5.57	3619.76
MW-75	12/10/97	3816.12	195.43	0	3620.69
MW-75	01/06/98	3816.12	214.82	0	3601.30
MW-75	01/15/98	3816.12	214.80	0	3601.32
MW-75	01/20/98	3816.12	200.95	0	3615.17
MW-75	02/03/98	3816.12	201.20	1.9	3616.30
MW-75	02/10/98	3816.12	205.10	4.5	3614.30
MW-75	02/17/98	3816.12	200.77	0.95	3616.04
MW-75	02/25/98	3816.12	203.15	2.15	3614.53
MW-75	04/27/98	3816.12	200.72	8.77	3621.80
MW-75	05/28/98	3816.12	201.72	2.7	3616.37
MW-75	06/16/98	3816.12	205.82	0	3610.30
MW-75	10/11/98	3816.12	192.53	3.8	3626.36
MW-75	01/27/99	3816.14	201.89	0.26	3614.44
MW-75	04/19/99	3816.14	207.70	0	3608.44
MW-75	01/05/00	3816.14	200.59	4.47	3618.81
MW-75	04/26/00	3816.12	194.98	0	3621.14
MW-75	09/27/00	3816.12	195.18	0	3620.94
MW-75	04/16/01	3816.12	204.02	0	3612.10
MW-75	10/29/01	3816.12	219.07	0	3597.05
MW-75	04/15/02	3816.12	195.82	0	3620.30
MW-75	10/14/02	3816.12	194.70	0	3621.42
MW-75	04/15/03	3816.12	195.68	0	3620.44
MW-75	10/14/03	3816.12	196.15	0	3619.97
MW-75	04/05/04	3816.12	196.26	0	3619.86
MW-75	10/05/04	3816.12	192.58	0	3623.54
MW-75	04/19/05	3816.12	194.95	0	3621.17
MW-75	10/24/05	3816.12	194.63	0	3621.49
MW-75	04/18/06	3816.12	195.41	0	3620.71
MW-75	10/11/06	3816.12	194.35	0	3621.77
MW-75	04/17/07	3816.12	194.75	0	3621.37
MW-75	10/22/07	194.75	194.35	0	0.40
MW-75	04/09/09	PLUGGED AND ABANDONED			
MW-76	12/01/94	3796.01	167.36	0	3628.65
MW-76	01/01/95	3796.01	169.05	2.04	3628.45
MW-76	07/01/95	3796.01	180.14	6.84	3620.86
MW-76	10/01/95	3796.01	168.22	0.41	3628.09
MW-76	01/16/96	3796.01	168.85	0.95	3627.85
MW-76	04/17/96	3796.01	169.59	0.99	3627.14
MW-76	07/16/96	3796.01	167.04	0	3628.97
MW-76	10/14/96	3796.01	171.86	0	3624.15
MW-76	02/04/97	3796.01	169.32	0	3626.69
MW-76	04/29/97	3796.01	174.30	0	3621.71
MW-76	07/15/97	3796.01	175.10	0	3620.91
MW-76	09/30/97	3796.01	176.20	0	3619.81
MW-76	10/14/97	3796.01	173.57	0	3622.44
MW-76	01/28/98	3796.01	173.10	0	3622.91
MW-76	04/27/98	3796.01	175.25	0	3620.76
MW-76	05/28/98	3796.01	173.68	0	3622.33
MW-76	06/16/98	3796.01	175.25	0	3620.76
MW-76	01/27/99	3796.01	177.03	1	3619.71
MW-76	04/26/00	3796.01	NR	--	--
MW-76	09/27/00	3796.01	NR	--	--
MW-76	04/16/01	3796.01	NR	--	--
MW-76	10/29/01	3796.01	NR	--	--
MW-76	04/15/02	3796.01	NR	--	--
MW-76	10/14/02	3796.01	NR	--	--
MW-76	04/15/03	3796.01	NG	--	--

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Appendix A
 Historic Fluid Level Data, May 1991 - May 2009
 Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-76	10/14/03	3796.01	--	--	--
MW-76	04/05/04	3796.01	NG	--	--
MW-76	10/05/04	3796.01	NG	--	--
MW-76	04/19/05	3796.01	NG	--	--
MW-76	10/24/05	3796.01	NG	--	--
MW-76	04/18/06	3796.01	NG	--	--
MW-76	10/11/06	3796.01	165.13	0	3630.88
MW-76	04/17/07	3796.01		0	3796.01
MW-76	10/22/07	3796.01	170.06	0	3625.95
MW-76	04/07/09	PLUGGED AND ABANDONED			
MW-81	10/01/95	3817.03	195.77	2.74	3623.26
MW-81	01/16/96	3817.03	199.04	4.29	3621.12
MW-81	04/17/96	3817.03	204.35	9.95	3619.94
MW-81	07/16/96	3817.03	204.26	9.37	3619.61
MW-81	10/13/96	3817.03	202.11	8.49	3621.11
MW-81	02/04/97	3817.03	197.25	2.11	3621.32
MW-81	04/28/97	3817.03	204.40	9.15	3619.30
MW-81	07/14/97	3817.03	196.19	1.45	3621.89
MW-81	10/09/97	3817.03	200.02	0.02	3617.02
MW-81	10/14/97	3817.03	200.96	0.06	3616.11
MW-81	10/29/97	3817.03	202.44	1.44	3615.64
MW-81	11/04/97	3817.03	200.92	0	3616.11
MW-81	11/12/97	3817.03	200.95	0.25	3616.26
MW-81	11/19/97	3817.03	200.94	0.01	3616.09
MW-81	11/24/97	3817.03	200.81	0	3616.22
MW-81	12/10/97	3817.03	200.85	0	3616.18
MW-81	01/06/98	3817.03	199.35	0	3617.68
MW-81	01/15/98	3817.03	199.30	0	3617.73
MW-81	01/20/98	3817.03	200.89	0.79	3616.71
MW-81	01/27/98	3817.03	200.14	0.89	3617.53
MW-81	02/03/98	3817.03	200.88	0.58	3616.57
MW-81	02/10/98	3817.03	206.74	1.64	3611.48
MW-81	02/17/98	3817.03	218.70	12.08	3607.14
MW-81	02/25/98	3817.03	217.41	11.41	3607.94
MW-81	04/27/98	3817.03	197.05	0	3619.98
MW-81	05/28/98	3817.03	192.28	0	3624.75
MW-81	06/15/98	3817.03	197.58	0	3619.45
MW-81	10/11/98	3817.03	193.23	0	3623.80
MW-81	01/27/99	3817.03	200.12	0	3616.91
MW-81	04/19/99	3817.03	200.84	0	3616.19
MW-81	01/05/00	3817.03	199.38	0	3617.65
MW-81	04/26/00	3817.03	201.35	0	3615.68
MW-81	09/27/00	3817.03	202.99	0	3614.04
MW-81	04/16/01	3817.03	201.94	0	3615.09
MW-81	10/29/01	3817.03	204.69	0	3609.04
MW-81	04/15/02	3817.03	193.94	0	3623.09
MW-81	10/14/02	3817.03	192.80	0	3624.23
MW-81	04/15/03	3817.03	193.41	0	3623.62
MW-81	10/14/03	3817.03	194.42	0	3622.61
MW-81	04/05/04	3817.03	194.58	0	3622.45
MW-81	10/05/04	3817.03	192.67	2.96	3626.52
MW-81	04/19/05	3817.03	193.75	0	3623.28
MW-81	10/24/05	3817.03	192.46	0	3624.57
MW-81	04/18/06	3817.03	192.78	0	3624.25
MW-81	10/11/06	3817.03	194.15	2.56	3624.75
MW-81	04/16/07	3817.03	198.12	6.32	3614.30
MW-81	10/22/07	3817.03	189.54	0	3627.49
MW-81	05/27/09	3817.03	193.97	0.10	3623.13
MW-82	10/01/95	3825.07	196.65	0	3628.42
MW-82	01/18/96	3825.07	209.62	0	3615.45
MW-82	04/17/96	3825.07	209.12	0	3615.95
MW-82	07/16/96	3825.07	222.80	0	3602.27
MW-82	10/14/96	3825.07	196.33	0.02	3628.75
MW-82	02/04/97	3825.07	223.66	0	3601.41
MW-82	04/28/97	3825.07	249.21	0	3575.86
MW-82	07/15/97	3825.07	248.90	0	3576.17
MW-82	09/30/97	3825.07	249.20	0	3575.87
MW-82	10/09/97	3825.07	197.07	0	3628.00
MW-82	10/14/97	3825.07	229.01	0	3596.06
MW-82	10/29/97	3825.07	200.15	0	3624.92
MW-82	11/04/97	3825.07	209.26	0	3615.81
MW-82	11/12/97	3825.07	211.36	2.62	3615.62
MW-82	11/19/97	3825.07	213.86	5.28	3615.06
MW-82	11/24/97	3825.07	213.96	0	3611.11
MW-82	12/10/97	3825.07	212.95	0	3612.12

D = Dry
 NA = Not Available
 NU = Not Gauged
 NR = No Record

Appendix A
Historic Fluid Level Data, May 1991 - May 2009
Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-82	02/25/98	3825.07	245.20	0	3579.87
MW-82	04/27/98	3825.07	235.62	0	3589.45
MW-82	05/28/98	3825.07	210.13	0	3614.94
MW-82	06/16/98	3825.07	249.20	0	3575.87
MW-82	10/11/98	3825.07	199.81	0	3625.26
MW-82	01/27/99	3825.07	250.24	0	3574.83
MW-82	04/19/99	3825.07	199.99	0	3625.08
MW-82	01/05/00	3825.07	199.67	0	3625.40
MW-82	04/26/00	3825.07	190.95	0	3634.12
MW-82	09/27/00	3825.07	202.05	1.63	3624.21
MW-82	04/16/01	3825.07	200.40	0	3624.67
MW-82	10/29/01	3825.07	201.71	0	3623.36
MW-82	04/15/02	3825.07	201.38	0	3623.69
MW-82	10/14/02	3825.07	201.15	1.68	3625.15
MW-82	04/15/03	3825.07	201.71	1.65	3624.56
MW-82	10/14/03	3825.07	201.97	0.67	3623.59
MW-82	04/05/04	3825.07	201.56	0	3623.51
MW-82	10/05/04	3825.07	197.37	0	3627.70
MW-82	04/19/05	3825.07	200.30	0	3624.77
MW-82	10/24/05	3825.07	200.07	0.01	3625.01
MW-82	04/18/06	3825.07	200.72	0	3624.35
MW-82	10/11/06	3825.07	199.78	0	3625.29
MW-82	04/17/07	3825.07	200.68	0	3624.39
MW-82	10/22/07	3825.07	200.32	0	3624.75
MW-82	04/16/09	PLUGGED AND ABANDONED			
MW-83	10/01/95	3794.12	169.47	1.67	3625.87
MW-83	01/18/96	3794.12	189.30	16.8	3617.08
MW-83	04/17/96	3794.12	179.40	0.2	3614.86
MW-83	07/16/96	3794.12	176.36	0.56	3618.16
MW-83	10/14/96	3794.12	176.25	0.18	3618.00
MW-83	02/04/97	3794.12	178.77	0	3615.35
MW-83	04/28/97	3794.12	179.41	0	3614.71
MW-83	07/15/97	3794.12	168.18	1.62	3627.12
MW-83	09/30/97	3794.12	202.70	0	3591.42
MW-83	10/09/97	3794.12	202.70	0	3591.42
MW-83	10/14/97	3794.12	200.25	0	3593.87
MW-83	10/21/97	3794.12	202.55	0	3591.57
MW-83	10/29/97	3794.12	200.20	0	3593.92
MW-83	11/04/97	3794.12	200.17	0	3593.95
MW-83	11/12/97	3794.12	200.20	0	3593.92
MW-83	11/19/97	3794.12	194.44	0.58	3600.10
MW-83	11/24/97	3794.12	193.52	0	3600.60
MW-83	12/10/97	3794.12	187.51	0	3606.61
MW-83	01/28/98	3794.12	170.53	0	3623.59
MW-83	02/25/98	3794.12	182.22	4.87	3615.45
MW-83	04/27/98	3794.12	188.78	0	3605.34
MW-83	05/28/98	3794.12	170.14	0	3623.98
MW-83	06/16/98	3794.12	184.32	9.51	3616.74
MW-83	10/11/98	3794.12	169.96	0	3624.16
MW-83	01/27/99	3794.12	189.10	0	3605.02
MW-83	04/19/99	3794.12	124.09	0	3670.03
MW-83	01/05/00	3794.12	191.08	0	3603.04
MW-83	04/26/00	3794.12	170.53	0	3623.59
MW-83	09/27/00	3794.12	196.19	0	3597.93
MW-83	04/16/01	3794.12	195.97	0	3598.15
MW-83	10/29/01	3794.12	179.35	0	3614.77
MW-83	04/15/02	3794.12	171.21	0	3622.91
MW-83	10/14/02	3794.12	170.19	0	3623.93
MW-83	04/05/04	3794.12	170.33	0	3623.79
MW-83	10/05/04	3794.12	166.01	0.06	3628.15
MW-83	04/19/05	3794.12	169.15	0	3624.97
MW-83	10/24/05	3794.12	168.93	0.01	3625.20
MW-83	04/18/06	3794.12	169.41	0	3624.71
MW-83	10/11/06	3794.12	168.46	0.04	3625.69
MW-83	04/17/07	3794.12	169.6	0	3624.52
MW-83	10/22/07	3794.12	169.02	0	3625.10
MW-83	04/15/09	PLUGGED AND ABANDONED			
MW-84	07/16/96	3759.60	131.50	0.39	3628.38
MW-84	10/14/96	3759.60	131.79	1.05	3628.57
MW-84	02/04/97	3759.60	132.84	1.29	3627.70
MW-84	04/29/97	3759.60	133.64	1.79	3627.26
MW-84	07/15/97	3759.60	133.89	1.9	3627.09
MW-84	09/30/97	3759.60	134.90	2.3	3626.37
MW-84	10/14/97	3759.60	136.64	3.94	3625.83
MW-84	10/21/97	3759.60	137.06	4.32	3625.69

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Appendix A
 Historic Fluid Level Data, May 1991 - May 2009
 Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-84	10/29/97	3759.60	133.35	0.72	3626.77
MW-84	11/04/97	3759.60	133.72	0	3625.88
MW-84	11/12/97	3759.60	132.70	0.05	3626.93
MW-84	11/19/97	3759.60	136.38	3.66	3625.89
MW-84	11/24/97	3759.60	136.00	3.23	3625.95
MW-84	12/10/97	3759.60	134.60	1.65	3626.20
MW-84	01/06/98	3759.60	133.48	0.08	3626.17
MW-84	01/15/98	3759.60	133.30	0	3626.30
MW-84	01/20/98	3759.60	147.14	6.91	3617.50
MW-84	01/28/98	3759.60	133.96	0.46	3625.97
MW-84	02/03/98	3759.60	133.89	0.13	3625.80
MW-84	02/10/98	3759.60	133.70	0.01	3625.90
MW-84	02/17/98	3759.60	139.13	2.86	3622.55
MW-84	02/25/98	3759.60	134.69	0.23	3625.07
MW-84	04/27/98	3759.60	135.34	0.89	3624.90
MW-84	05/28/98	3759.60	134.40	0	3625.20
MW-84	06/16/98	3759.60	134.94	0.4	3624.95
MW-84	10/11/98	3759.60	134.10	0	3625.50
MW-84	01/27/99	3759.60	135.21	0	3624.39
MW-84	04/19/99	3759.60	136.05	0.15	3623.66
MW-84	01/05/00	3759.60	137.31	0	3622.29
MW-84	04/26/00	3759.60	137.18	0	3622.42
MW-84	09/27/00	3759.60	137.24	0	3622.36
MW-84	04/16/01	3759.60	139.05	2.04	3622.04
MW-84	10/29/01	3759.60	137.91	0	3621.69
MW-84	04/15/02	3759.60	137.79	0.42	3622.12
MW-84	10/14/02	3759.60	136.14	0	3623.46
MW-84	04/03/04	3759.60	136.77	0	3622.83
MW-84	10/04/04	3759.60	137.81	0	3621.79
MW-84	04/05/04	3759.60	137.91	0	3621.69
MW-84	10/05/04	3759.60	133.05	0	3626.55
MW-84	04/19/05	3759.60	136.62	0	3622.98
MW-84	10/24/05	3759.60	136.20	0	3623.40
MW-84	04/18/06	3759.60	137.01	0	3622.59
MW-84	10/11/06	3759.60	136.12	0	3623.48
MW-84	04/17/07	3759.6	134.83	0	3624.77
MW-84	10/22/07	3759.60	136.64	0	3622.96
MW-84	04/14/09	PLUGGED AND ABANDONED			
MW-85	07/16/96	3824.93	200.62	3.64	3626.96
MW-85	10/13/96	3824.93	201.10	4.86	3627.37
MW-85	02/04/97	3824.93	200.85	3.34	3626.51
MW-85	04/29/97	3824.93	199.89	1.19	3625.90
MW-85	07/14/97	3824.93	199.39	0	3625.54
MW-85	10/09/97	3824.93	200.15	0.15	3624.88
MW-85	10/14/97	3824.93	200.35	0	3624.58
MW-85	10/29/97	3824.93	199.31	0	3625.62
MW-85	11/04/97	3824.93	200.16	0.1	3624.84
MW-85	11/12/97	3824.93	200.00	0	3624.93
MW-85	11/19/97	3824.93	199.28	0.01	3625.65
MW-85	11/24/97	3824.93	200.07	0	3624.86
MW-85	12/10/97	3824.93	200.12	0	3624.81
MW-85	01/06/98	3824.93	201.37	0.6	3623.99
MW-85	01/15/98	3824.93	201.30	0.55	3624.03
MW-85	01/20/98	3824.93	207.80	4.23	3620.21
MW-85	01/27/98	3824.93	201.62	1.82	3624.63
MW-85	02/03/98	3824.93	201.68	0.79	3623.82
MW-85	02/10/98	3824.93	201.36	0.42	3623.87
MW-85	02/17/98	3824.93	201.78	0.73	3623.68
MW-85	02/25/98	3824.93	200.95	0.2	3624.12
MW-85	04/27/98	3824.93	200.91	0.57	3624.43
MW-85	05/28/98	3824.93	203.78	1.02	3621.89
MW-85	06/16/98	3824.93	201.29	0.55	3624.04
MW-85	10/11/98	3824.93	201.32	1.27	3624.53
MW-85	01/27/99	3824.93	203.01	0.49	3622.28
MW-85	04/19/99	3824.93	202.58	0	3622.35
MW-85	01/05/00	3824.93	200.79	0	3624.14
MW-85	04/26/00	3824.93	213.40	10.73	3619.36
MW-85	09/27/00	3824.93	208.62	5.31	3620.19
MW-85	04/16/01	3824.93	202.99	0	3621.94
MW-85	10/29/01	3824.93	205.15	0	3623.23
MW-85	04/15/02	3824.93	204.28	2.67	3622.60
MW-85	10/14/02	3824.93	202.96	2.58	3623.85
MW-85	04/15/03	3824.93	201.28	0	3623.65
MW-85	10/14/03	3824.93	202.46	0	3622.47
MW-85	04/05/04	3824.93	202.71	0	3622.22
MW-85	10/05/04	3824.93	199.44	0	3625.49

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Appendix A
 Historic Fluid Level Data, May 1991 - May 2009
 Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-85	04/19/05	3824.93	201.36	0	3623.57
MW-85	10/24/05	3824.93	200.90	0	3624.03
MW-85	04/18/06	3824.93	201.51	0	3623.42
MW-85	10/11/06	3824.93	200.70	0	3624.23
MW-85	04/17/07	3824.93		0	3824.93
MW-85	10/22/07	3824.93	NR	--	--
MW-85	04/09/09	PLUGGED AND ABANDONED			
MW-86	10/14/96	3823.99	193.32	0	3630.67
MW-86	02/04/97	3823.99	190.99	0	3633.00
MW-86	04/28/97	3823.99	197.37	0	3626.62
MW-86	07/14/97	3823.99	199.78	0	3624.21
MW-86	09/30/97	3823.99	188.10	0	3635.89
MW-86	10/09/97	3823.99	198.76	0	3625.23
MW-86	10/14/97	3823.99	196.27	0	3627.72
MW-86	01/27/98	3823.99	205.50	0	3618.49
MW-86	04/27/98	3823.99	203.08	0	3620.91
MW-86	05/28/98	3823.99	199.71	0	3624.28
MW-86	06/16/98	3823.99	203.43	0	3620.56
MW-86	10/11/98	3823.99	198.11	0	3625.88
MW-86	01/27/99	3823.99	222.50	0	3601.49
MW-86	04/19/99	3823.99	201.13	0	3622.86
MW-86	01/05/00	3823.99	211.12	0	3612.87
MW-86	04/26/00	3823.99	212.45	0	3611.54
MW-86	09/27/00	3823.99	202.63	0	3621.36
MW-86	04/16/01	3823.99	222.65	0	3601.34
MW-86	10/29/01	3823.99	216.58	0	3607.41
MW-86	04/15/02	3823.99	201.78	0	3622.21
MW-86	10/14/02	3823.99	D	--	--
MW-86	04/15/03	3823.99	200.08	0	3623.91
MW-86	10/14/03	3823.99	201.47	0	3622.52
MW-86	04/05/04	3823.99	201.56	0	3622.43
MW-86	10/05/04	3823.99	198.87	0	3625.12
MW-86	04/19/05	3823.99	200.25	0	3623.74
MW-86	10/24/05	3823.99	199.55	0	3624.44
MW-86	04/18/06	3823.99	200.29	0	3623.70
MW-86	10/11/06	3823.99	199.16	0	3624.83
MW-86	04/17/07	3823.99	202.7	0	3621.29
MW-86	10/22/07	3823.99	200.14	0	3623.85
MW-86	03/30/09	PLUGGED AND ABANDONED			
MW-87	08/01/96	3740.50	113.11	0	3627.39
MW-87	10/14/96	3740.50	112.19	0	3628.31
MW-87	02/04/97	3740.50	112.94	0	3627.56
MW-87	04/28/97	3740.50	113.21	0	3627.29
MW-87	07/14/97	3740.50	113.83	0	3626.67
MW-87	10/09/97	3740.50	114.20	0	3626.30
MW-87	10/13/97	3740.50	114.43	0	3626.07
MW-87	10/29/97	3740.50	113.95	0	3626.55
MW-87	11/04/97	3740.50	114.30	0	3626.20
MW-87	11/12/97	3740.50	114.22	0	3626.28
MW-87	11/19/97	3740.50	114.35	0	3626.15
MW-87	11/24/97	3740.50	114.25	0	3626.25
MW-87	12/10/97	3740.50	114.32	0	3626.18
MW-87	01/28/98	3740.50	114.07	0	3626.43
MW-87	02/25/98	3740.50	114.35	0	3626.15
MW-87	04/27/98	3740.50	114.52	0	3625.98
MW-87	05/28/98	3740.50	105.30	0	3635.20
MW-87	06/15/98	3740.50	114.52	0	3625.98
MW-87	10/10/98	3740.50	114.96	0	3625.54
MW-87	01/27/99	3740.50	115.08	0	3625.42
MW-87	04/19/99	3740.50	115.15	0	3625.35
MW-87	01/05/00	3740.50	115.32	0	3625.18
MW-87	04/26/00	3740.50	115.50	0	3625.00
MW-87	09/27/00	3740.50	115.82	0	3624.68
MW-87	04/16/01	3740.50	115.77	0	3624.73
MW-87	10/29/01	3740.50	116.25	0	3624.25
MW-87	04/15/02	3740.50	116.27	0	3624.23
MW-87	10/14/02	3740.50	115.32	0	3625.18
MW-87	04/15/03	3740.50	118.01	0	3622.49
MW-87	10/14/03	3740.50	116.76	0	3623.74
MW-87	04/05/04	3740.50	116.88	0	3623.62
MW-87	10/05/04	3740.50	112.59	0	3627.91
MW-87	04/19/05	3740.50	115.73	0	3624.77
MW-87	10/24/05	3740.50	115.41	0	3625.09
MW-87	04/18/06	3740.50	115.94	0	3624.56
MW-87	10/11/06	3740.50	115.24	0	3625.26

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Appendix A
Historic Fluid Level Data, May 1991 - May 2009
Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-87	04/17/07	3740.5	116.02	0	3624.48
MW-87	10/22/07	3740.50	115.67	0	3624.83
MW-87	04/06/09	PLUGGED AND ABANDONED			
MW-87A	08/01/96	3739.53	124.91	0	3614.62
MW-87A	10/14/96	3739.53	104.75	0	3634.78
MW-87A	02/04/97	3739.53	103.69	0	3635.84
MW-87A	04/28/97	3739.53	104.43	0	3635.10
MW-87A	07/14/97	3739.53	104.92	0	3634.61
MW-87A	10/13/97	3739.53	104.44	0	3635.09
MW-87A	01/28/98	3739.53	104.79	0	3634.74
MW-87A	04/27/98	3739.53	105.21	0	3634.32
MW-87A	05/28/98	3739.53	114.02	0	3625.51
MW-87A	06/15/98	3739.53	105.47	0	3634.06
MW-87A	10/10/98	3739.53	105.99	0	3633.54
MW-87A	01/27/99	3739.53	105.98	0	3633.55
MW-87A	04/19/99	3739.53	107.30	0	3632.23
MW-87A	01/05/00	3739.53	106.05	0	3633.48
MW-87A	04/26/00	3739.53	105.26	0	3634.27
MW-87A	09/27/00	3739.53	107.61	0	3631.92
MW-87A	04/16/01	3739.53	107.62	0	3631.91
MW-87A	10/29/01	3739.53	108.81	0	3630.72
MW-87A	04/15/02	3739.53	109.11	0	3630.42
MW-87A	10/14/02	3739.53	107.07	0	3632.46
MW-87A	04/15/03	3739.53	107.99	0	3631.54
MW-87A	10/14/03	3739.53	107.12	0	3632.41
MW-87A	04/05/04	3739.53	109.20	0	3630.33
MW-87A	10/05/04	3739.53	99.19	0	3640.34
MW-87A	04/19/05	3739.53	64.33	0	3675.20
MW-87A	10/24/05	3739.53	100.37	0	3639.16
MW-87A	04/18/06	3739.53	105.02	0	3634.51
MW-87A	10/11/06	3739.53	105.18	0	3634.35
MW-87A	04/17/07	3739.53	105.2	0	3634.33
MW-87A	10/22/07	3739.53	104.97	0	3634.56
MW-87A	04/06/09	PLUGGED AND ABANDONED			
MW-88	08/01/96	3789.70	163.59	0	3626.11
MW-88	10/13/96	3789.70	162.22	0	3627.48
MW-88	02/04/97	3789.70	163.38	0	3626.32
MW-88	04/28/97	3789.70	163.54	0	3626.16
MW-88	07/14/97	3789.70	163.84	0	3625.86
MW-88	10/01/97	3789.70	164.40	0	3625.30
MW-88	10/09/97	3789.70	164.38	0	3625.32
MW-88	10/13/97	3789.70	164.34	0	3625.36
MW-88	01/27/98	3789.70	164.41	0	3625.29
MW-88	04/27/98	3789.70	164.84	0	3624.86
MW-88	05/28/98	3789.70	164.00	0	3625.70
MW-88	06/15/98	3789.70	164.87	0	3624.83
MW-88	10/10/98	3789.70	165.38	0	3624.32
MW-88	01/27/99	3789.70	165.49	0	3624.21
MW-88	04/19/99	3789.70	165.54	0	3624.16
MW-88	01/05/00	3789.70	165.62	0	3624.08
MW-88	04/26/00	3789.70	165.87	0	3623.83
MW-88	09/27/00	3789.70	166.25	0	3623.45
MW-88	04/16/01	3789.70	166.21	0	3623.49
MW-88	10/29/01	3789.70	166.49	0	3623.21
MW-88	04/15/02	3789.70	166.53	0	3623.17
MW-88	10/14/02	3789.70	165.52	0	3624.18
MW-88	04/15/03	3789.70	165.98	0	3623.72
MW-88	10/14/03	3789.70	166.89	0	3622.81
MW-88	04/05/04	3789.70	167.15	0	3622.55
MW-88	10/05/04	3789.70	163.52	0	3626.18
MW-88	04/19/05	3789.70	166.38	0	3623.32
MW-88	10/24/05	3789.70	165.67	0	3624.03
MW-88	04/18/06	3789.70	166.15	0	3623.55
MW-88	10/11/06	3789.70	165.49	0	3624.21
MW-88	04/16/07	3789.7	166.11	0	3623.59
MW-88	10/22/07	3789.70	165.92	0	3623.78
MW-88	05/27/09	3789.70	166.91	0	3622.79
MW-89	08/01/96	3827.68	201.41	0	3626.27
MW-89	10/14/96	3827.68	199.95	0	3627.73
MW-89	02/04/97	3827.68	201.39	0	3626.29
MW-89	04/28/97	3827.68	201.67	0	3626.01
MW-89	07/14/97	3827.68	201.94	0	3625.74
MW-89	10/01/97	3827.68	202.80	0	3624.88
MW-89	10/09/97	3827.68	202.70	0	3624.98

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Appendix A
Historic Fluid Level Data, May 1991 - May 2009
Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-89	10/13/97	3827.68	202.70	0	3624.98
MW-89	01/27/98	3827.68	202.82	0	3624.86
MW-89	04/27/98	3827.68	203.04	0	3624.64
MW-89	05/28/98	3827.68	203.19	0	3624.49
MW-89	06/15/98	3827.68	203.27	0	3624.41
MW-89	10/10/98	3827.68	203.83	0	3623.85
MW-89	01/27/99	3827.68	204.12	0	3623.56
MW-89	04/19/99	3827.68	204.12	0	3623.56
MW-89	01/05/00	3827.68	204.47	0	3623.21
MW-89	04/26/00	3827.68	204.43	0	3623.25
MW-89	09/27/00	3827.68	204.70	0	3622.98
MW-89	04/16/01	3827.68	204.55	0	3623.13
MW-89	10/29/01	3827.68	204.88	0	3622.80
MW-89	04/15/02	3827.68	204.81	0	3622.87
MW-89	10/14/02	3827.68	203.53	0	3624.15
MW-89	04/15/03	3827.68	204.18	0	3623.50
MW-89	10/14/03	3827.68	205.35	0	3622.33
MW-89	04/05/04	3827.68	205.51	0	3622.17
MW-89	10/05/04	3827.68	202.76	0	3624.92
MW-89	04/19/05	3827.68	204.12	0	3623.56
MW-89	10/24/05	3827.68	203.64	0	3624.04
MW-89	04/18/06	3827.68	204.13	0	3623.55
MW-89	10/11/06	3827.68	203.16	0	3624.52
MW-89	04/16/07	3827.68	204.23	0	3623.45
MW-89	10/22/07	3827.68	204.18	0	3623.50
MW-89	03/31/09	PLUGGED AND ABANDONED			
MW-94	07/15/96	3821.48	194.15	0	3627.33
MW-94	10/13/96	3821.48	196.21	0	3625.27
MW-94	02/04/97	3821.48	197.60	0	3623.88
MW-94	07/14/97	3821.48	198.65	0	3622.83
MW-94	09/30/97	3821.48	199.70	0	3621.78
MW-94	10/09/97	3821.48	196.04	0	3625.44
MW-94	10/14/97	3821.48	195.95	0	3625.53
MW-94	01/27/98	3821.48	195.89	0	3625.59
MW-94	04/27/98	3821.48	196.20	0	3625.28
MW-94	05/28/98	3821.48	196.35	0	3625.13
MW-94	06/16/98	3821.48	196.42	0	3625.06
MW-94	10/10/98	3821.48	196.91	0	3624.57
MW-94	01/27/99	3821.48	197.28	0	3624.20
MW-94	04/19/99	3821.48	197.18	0	3624.30
MW-94	01/05/00	3821.48	197.37	0	3624.11
MW-94	04/26/00	3821.48	197.46	0	3624.02
MW-94	09/27/00	3821.48	197.85	0	3623.63
MW-94	04/16/01	3821.48	197.75	0	3623.73
MW-94	10/29/01	3821.48	198.02	0	3623.46
MW-94	04/15/02	3821.48	198.17	0	3623.31
MW-94	10/14/02	3821.48	196.67	0	3624.81
MW-94	04/15/03	3821.48	197.38	0	3624.10
MW-94	10/14/03	3821.48	188.49	0	3632.99
MW-94	04/05/04	3821.48	198.75	0	3622.73
MW-94	10/05/04	3821.48	195.71	0	3625.77
MW-94	04/19/05	3821.48	197.31	0	3624.17
MW-94	10/24/05	3821.48	196.76	0	3624.72
MW-94	04/18/06	3821.48	197.49	0	3623.99
MW-94	10/11/06	3821.48	196.26	0	3625.22
MW-94	04/17/07	3821.48	197.77	0	3623.71
MW-94	10/22/07	3821.48	197.22	0	3624.26
MW-94	03/31/09	PLUGGED AND ABANDONED			
MW-95	04/29/97	3746.26	118.48	0	3627.78
MW-95	07/15/97	3746.26	118.59	0	3627.67
MW-95	10/14/97	3746.26	119.30	0	3626.96
MW-95	10/29/97	3746.26	119.31	0	3626.95
MW-95	11/04/97	3746.26	119.35	0	3626.91
MW-95	11/12/97	3746.26	119.30	0	3626.96
MW-95	11/19/97	3746.26	119.41	0	3626.85
MW-95	11/24/97	3746.26	119.45	0	3626.81
MW-95	12/10/97	3746.26	119.42	0	3626.84
MW-95	01/28/98	3746.26	119.49	0	3626.77
MW-95	02/25/98	3746.26	119.62	0	3626.64
MW-95	04/27/98	3746.26	119.78	0	3626.48
MW-95	05/28/98	3746.26	119.90	0	3626.36
MW-95	06/16/98	3746.26	119.97	0	3626.29
MW-95	10/10/98	3746.26	120.46	0	3625.80
MW-95	01/27/99	3746.26	120.59	0	3625.67
MW-95	04/19/99	3746.26	120.72	0	3625.54

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Appendix A
Historic Fluid Level Data, May 1991 - May 2009
Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-95	01/05/00	3746.26	120.81	0	3625.45
MW-95	04/26/00	3746.26	120.93	0	3625.33
MW-95	09/27/00	3746.26	NR	--	--
MW-95	04/16/01	3746.26	121.38	0	3624.88
MW-95	10/29/01	3746.26	121.66	0	3624.60
MW-95	04/15/02	3746.26	121.91	0	3624.35
MW-95	10/14/02	3746.26	120.04	0	3626.22
MW-95	04/15/03	3746.26	121.26	0	3625.00
MW-95	10/14/03	3746.26	122.26	0	3624.00
MW-95	04/05/04	3746.26	122.41	0	3623.85
MW-95	10/05/04	3746.26	103.00	0	3643.26
MW-95	04/19/05	3746.26	121.01	0	3625.25
MW-95	10/24/05	3746.26	120.54	0	3625.72
MW-95	04/18/06	3746.26	121.50	0	3624.76
MW-95	10/11/06	3746.26	119.94	0	3626.32
MW-95	04/17/07	3746.26	121.44	0	3624.82
MW-95	10/22/07	3746.26	120.75	0	3625.51
MW-95	04/01/09	PLUGGED AND ABANDONED			
MW-96	04/29/97	3739.80	112.60	0	3627.20
MW-96	07/15/97	3739.80	112.57	0	3627.23
MW-96	10/01/97	3739.80	113.40	0	3626.40
MW-96	10/09/97	3739.80	113.34	0	3626.46
MW-96	10/13/97	3739.80	113.38	0	3626.42
MW-96	10/29/97	3739.80	113.38	0	3626.42
MW-96	11/04/97	3739.80	113.35	0	3626.45
MW-96	11/12/97	3739.80	113.31	0	3626.49
MW-96	11/19/97	3739.80	113.45	0	3626.35
MW-96	11/24/97	3739.80	113.58	0	3626.22
MW-96	12/10/97	3739.80	113.47	0	3626.33
MW-96	01/28/98	3739.80	113.46	0	3626.34
MW-96	02/25/98	3739.80	113.48	0	3626.32
MW-96	04/27/98	3739.80	113.74	0	3626.06
MW-96	05/28/98	3739.80	113.88	0	3625.92
MW-96	06/15/98	3739.80	113.92	0	3625.88
MW-96	10/10/98	3739.80	114.37	0	3625.43
MW-96	01/27/99	3739.80	114.48	0	3625.32
MW-96	04/19/99	3739.80	114.56	0	3625.24
MW-96	01/05/00	3739.80	114.74	0	3625.06
MW-96	04/26/00	3739.80	114.91	0	3624.89
MW-96	09/27/00	3739.80	115.29	0	3624.51
MW-96	04/16/01	3739.80	115.33	0	3624.47
MW-96	10/29/01	3739.80	115.67	0	3624.13
MW-96	04/15/02	3739.80	115.78	0	3624.02
MW-96	10/14/02	3739.80	114.85	0	3624.95
MW-96	04/15/03	3739.80	115.20	0	3624.60
MW-96	10/14/03	3739.80	116.22	0	3623.58
MW-96	04/05/04	3739.80	116.30	0	3623.50
MW-96	10/05/04	3739.80	111.64	0	3628.16
MW-96	04/19/05	3739.80	115.09	0	3624.71
MW-96	10/24/05	3739.80	114.85	0	3624.95
MW-96	04/18/06	3739.80	115.42	0	3624.38
MW-96	10/11/06	3739.80	114.74	0	3625.06
MW-96	04/17/07	3739.80	115.43	0	3624.37
MW-96	10/22/07	3739.80	115.11	0	3624.69
MW-96	04/15/09	PLUGGED AND ABANDONED			
MW-97	04/29/97	3750.16	122.82	0	3627.34
MW-97	07/15/97	3750.16	122.91	0	3627.25
MW-97	10/01/97	3750.16	123.80	0	3626.36
MW-97	10/09/97	3750.16	123.75	0	3626.41
MW-97	10/13/97	3750.16	123.61	0	3626.55
MW-97	10/29/97	3750.16	123.62	0	3626.54
MW-97	11/04/97	3750.16	123.74	0	3626.42
MW-97	11/12/97	3750.16	123.70	0	3626.46
MW-97	11/19/97	3750.16	123.85	0	3626.31
MW-97	11/24/97	3750.16	123.80	0	3626.36
MW-97	12/10/97	3750.16	123.90	0	3626.26
MW-97	01/28/98	3750.16	123.71	0	3626.45
MW-97	02/25/98	3750.16	123.89	0	3626.27
MW-97	04/27/98	3750.16	123.99	0	3626.17
MW-97	05/28/98	3750.16	124.12	0	3626.04
MW-97	06/15/98	3750.16	124.17	0	3625.99
MW-97	10/10/98	3750.16	124.63	0	3625.53
MW-97	01/27/99	3750.16	124.73	0	3625.43
MW-97	04/19/99	3750.16	124.83	0	3625.33
MW-97	01/05/00	3750.16	125.01	0	3625.15

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Appendix A
 Historic Fluid Level Data, May 1991 - May 2009
 Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-97	04/26/00	3750.16	125.19	0	3624.97
MW-97	09/27/00	3750.16	125.61	0	3624.55
MW-97	04/16/01	3750.16	125.60	0	3624.56
MW-97	10/29/01	3750.16	125.89	0	3624.27
MW-97	04/15/02	3750.16	126.04	0	3624.12
MW-97	10/14/02	3750.16	125.09	0	3625.07
MW-97	04/15/03	3750.16	125.45	0	3624.71
MW-97	10/14/03	3750.16	126.49	0	3623.67
MW-97	04/05/04	3750.16	126.59	0	3623.57
MW-97	10/05/04	3750.16	121.90	0	3628.26
MW-97	04/19/05	3750.16	125.36	0	3624.80
MW-97	10/24/05	3750.16	125.11	0	3625.05
MW-97	04/18/06	3750.16	125.71	0	3624.45
MW-97	10/11/06	3750.16	125.02	0	3625.14
MW-97	04/17/07	3750.16	125.74	0	3624.42
MW-97	10/22/07	3750.16	125.39	0	3624.77
MW-97	04/15/09	PLUGGED AND ABANDONED			
MW-98	04/29/97	3770.15	142.42	0	3627.73
MW-98	07/15/97	3770.15	142.51	0	3627.64
MW-98	10/14/97	3770.15	143.55	0.29	3626.81
MW-98	10/29/97	3770.15	143.43	0.23	3626.88
MW-98	11/04/97	3770.15	143.50	0.25	3626.83
MW-98	11/12/97	3770.15	143.35	0.17	3626.92
MW-98	11/19/97	3770.15	143.48	0.22	3626.83
MW-98	11/24/97	3770.15	143.54	0.26	3626.79
MW-98	12/10/97	3770.15	143.52	0.12	3626.71
MW-98	01/28/98	3770.15	143.53	0.22	3626.78
MW-98	02/25/98	3770.15	143.77	0.19	3626.51
MW-98	04/27/98	3770.15	143.73	0.15	3626.52
MW-98	05/28/98	3770.15	143.80	0	3626.35
MW-98	06/16/98	3770.15	143.87	0.05	3626.31
MW-98	10/10/98	3770.15	144.32	0.08	3625.88
MW-98	01/27/99	3770.15	144.39	0	3625.76
MW-98	04/19/99	3770.15	148.78	0	3621.37
MW-98	01/05/00	3770.15	143.88	0	3626.27
MW-98	04/26/00	3770.15	144.04	0	3626.11
MW-98	09/27/00	3770.15	NR	--	--
MW-98	04/16/01	3770.15	144.55	0	3625.60
MW-98	10/29/01	3770.15	144.79	0	3625.36
MW-98	04/15/02	3770.15	144.98	0	3625.17
MW-98	10/14/02	3770.15	143.64	0	3626.51
MW-98	04/15/03	3770.15	144.42	0	3625.73
MW-98	10/14/03	3770.15	145.46	0	3624.69
MW-98	04/05/04	3770.15	145.60	0	3624.55
MW-98	10/05/04	3770.15	140.49	0	3629.66
MW-98	04/19/05	3770.15	144.21	0	3625.94
MW-98	10/24/05	3770.15	143.91	0	3626.24
MW-98	04/18/06	3770.15	144.64	0	3625.51
MW-98	10/11/06	3770.15	143.68	0	3626.47
MW-98	04/17/07	3770.15	144.68	0	3625.47
MW-98	10/22/07	3770.15	144.26	0	3625.89
MW-98	04/14/09	PLUGGED AND ABANDONED			
MW-104	07/15/97	3793.64	168.72	0	3624.92
MW-104	10/13/97	3793.64	167.22	0	3626.42
MW-104	10/29/97	3793.64	167.25	0	3626.39
MW-104	11/04/97	3793.64	167.30	0	3626.34
MW-104	11/12/97	3793.64	167.20	0	3626.44
MW-104	11/19/97	3793.64	167.30	0	3626.34
MW-104	11/24/97	3793.64	167.30	0	3626.34
MW-104	12/10/97	3793.64	167.28	0	3626.36
MW-104	01/28/98	3793.64	167.33	0	3626.31
MW-104	02/25/98	3793.64	167.34	0	3626.30
MW-104	04/27/98	3793.64	167.59	0	3626.05
MW-104	05/28/98	3793.64	167.75	0	3625.89
MW-104	06/15/98	3793.64	167.81	0	3625.83
MW-104	10/10/98	3793.64	168.27	0	3625.37
MW-104	01/27/99	3793.64	168.69	0.29	3625.16
MW-104	04/19/99	3793.64	173.11	0.39	3620.81
MW-104	01/05/00	3793.64	168.57	0.15	3625.18
MW-104	04/26/00	3793.64	168.97	0.26	3624.86
MW-104	09/27/00	3793.64	169.30	0.14	3624.44
MW-104	04/16/01	3793.64	169.28	0	3624.36
MW-104	10/29/01	3793.64	169.52	0	3624.12
MW-104	04/15/02	3793.64	169.60	0	3624.04
MW-104	10/14/02	3793.64	169.74	0	3623.90

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Appendix A
 Historic Fluid Level Data, May 1991 - May 2009
 Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-104	04/15/03	3793.64	169.61	0	3624.03
MW-104	10/14/03	3793.64	170.09	0	3623.55
MW-104	04/05/04	3793.64	170.07	0	3623.57
MW-104	10/05/04	3793.64	165.55	0	3628.09
MW-104	04/19/05	3793.64	168.94	0	3624.70
MW-104	10/24/05	3793.64	168.69	0	3624.95
MW-104	04/18/06	3793.64	169.38	0	3624.26
MW-104	10/11/06	3793.64	168.61	0	3625.03
MW-104	04/17/07	3793.64	169.32	0	3624.32
MW-104	10/22/07	3793.64	168.97	0	3624.67
MW-104	04/15/09	PLUGGED AND ABANDONED			
MW-108	07/15/97	3747.13	119.97	0	3627.16
MW-108	10/13/97	3747.13	120.47	0	3626.66
MW-108	10/29/97	3747.13	120.45	0	3626.68
MW-108	11/04/97	3747.13	120.42	0	3626.71
MW-108	11/12/97	3747.13	124.40	0	3622.73
MW-108	11/19/97	3747.13	120.55	0	3626.58
MW-108	11/24/97	3747.13	120.54	0	3626.59
MW-108	12/10/97	3747.13	120.55	0	3626.58
MW-108	01/28/98	3747.13	120.58	0	3626.55
MW-108	02/25/98	3747.13	120.57	0	3626.56
MW-108	04/27/98	3747.13	120.85	0	3626.28
MW-108	05/28/98	3747.13	120.72	0	3626.41
MW-108	06/15/98	3747.13	121.03	0	3626.10
MW-108	10/10/98	3747.13	121.50	0	3625.63
MW-108	01/27/99	3747.13	120.59	0	3626.54
MW-108	04/19/99	3747.13	121.72	0	3625.41
MW-108	01/05/00	3747.13	121.89	0	3625.24
MW-108	04/26/00	3747.13	122.08	0	3625.05
MW-108	09/27/00	3747.13	122.49	0	3624.64
MW-108	04/16/01	3747.13	122.52	0	3624.61
MW-108	10/29/01	3747.13	122.84	0	3624.29
MW-108	04/15/02	3747.13	122.47	0	3624.66
MW-108	10/14/02	3747.13	121.93	0	3625.20
MW-108	04/15/03	3747.13	122.42	0	3624.71
MW-108	10/14/03	3747.13	123.42	0	3623.71
MW-108	04/05/04	3747.13	123.50	0	3623.63
MW-108	10/05/04	3747.13	118.68	0	3628.45
MW-108	04/19/05	3747.13	122.22	0	3624.91
MW-108	10/24/05	3747.13	121.99	0	3625.14
MW-108	04/18/06	3747.13	122.63	0	3624.50
MW-108	10/11/06	3747.13	121.88	0	3625.25
MW-108	04/17/07	3747.13	122.65	0	3624.48
MW-108	10/22/07	3747.13	122.28	0	3624.85
MW-108	04/15/09	PLUGGED AND ABANDONED			
MW-110	06/17/98	3812.61	187.42	1.3	3626.13
MW-110	10/09/98	3812.61	188.34	0	3624.27
MW-110	01/27/99	3812.61	192.59	0.02	3620.03
MW-110	04/19/99	3812.61	189.31	0	3623.30
MW-110	01/05/00	3812.61	191.89	0	3620.72
MW-110	04/26/00	3812.61	191.62	0	3620.99
MW-110	09/27/00	3812.61	192.19	0	3620.42
MW-110	04/16/01	3812.61	196.25	0	3616.36
MW-110	10/29/01	3812.61	192.38	0	3620.23
MW-110	04/15/02	3812.61	190.51	0.02	3622.11
MW-110	10/14/02	3812.61	188.38	0	3624.23
MW-110	04/15/03	3812.61	189.53	0	3623.08
MW-110	10/14/03	3812.61	190.62	0	3621.99
MW-110	04/05/04	3812.61	191.02	0	3621.59
MW-110	10/05/04	3812.61	188.00	0	3624.61
MW-110	04/19/05	3812.61	189.62	0	3622.99
MW-110	10/24/05	3812.61	188.84	0	3623.77
MW-110	04/18/06	3812.61	189.87	0	3622.74
MW-110	10/11/06	3812.61	188.46	0	3624.15
MW-110	04/16/07	3812.61	189.97	0	3622.64
MW-110	10/22/07	3812.61	187.36	0	3625.25
MW-110	04/09/09	PLUGGED AND ABANDONED			
MW-111	06/19/98	3824.44	200.24	0	3624.20
MW-111	10/10/98	3824.44	200.89	0	3623.55
MW-111	01/27/99	3824.44	201.24	0	3623.20
MW-111	04/19/99	3824.44	201.26	0	3623.18
MW-111	01/05/00	3824.44	201.21	0	3623.23
MW-111	04/26/00	3824.44	201.48	0	3622.96
MW-111	09/27/00	3824.44	201.66	0	3622.78

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Appendix A
Historic Fluid Level Data, May 1991 - May 2009
Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-111	04/16/01	3824.44	201.74	0	3622.70
MW-111	10/29/01	3824.44	201.64	0	3622.80
MW-111	04/15/02	3824.44	201.83	0	3622.61
MW-111	10/14/02	3824.44	200.52	0	3623.92
MW-111	04/15/03	3824.44	201.21	0	3623.23
MW-111	10/14/03	3824.44	202.50	0	3621.94
MW-111	04/05/04	3824.44	202.54	0	3621.90
MW-111	10/05/04	3824.44	200.25	0	3624.19
MW-111	04/19/05	3824.44	201.09	0	3623.35
MW-111	10/24/05	3824.44	200.61	0	3623.83
MW-111	04/18/06	3824.44	201.17	0	3623.27
MW-111	10/11/06	3824.44	200.06	0	3624.38
MW-111	04/16/07	3824.44	201.28	0	3623.16
MW-111	10/22/07	3824.44	201.24	0	3623.20
MW-111	05/27/09	3824.44	202.50	0	3621.94
MW-112	01/05/00	3780.11	154.98	0	3625.13
MW-112	04/26/00	3780.11	NR	--	--
MW-112	09/27/00	3780.11	155.39	0	3624.72
MW-112	04/16/01	3780.11	156.30	0	3623.81
MW-112	10/29/01	3780.11	156.68	0	3623.43
MW-112	04/15/02	3780.11	156.71	0	3623.40
MW-112	10/14/02	3780.11	154.97	0	3625.14
MW-112	04/15/03	3780.11	156.10	0.12	3624.10
MW-112*	10/14/03	3780.11	201.97	0.67	3578.63
MW-112	04/05/04	3780.11	157.07	0.34	3623.29
MW-112	10/05/04	3780.11	152.34	0.01	3627.78
MW-112	04/19/05	3780.11	155.42	0	3624.69
MW-112	10/24/05	3780.11	155.07	0	3625.04
MW-112	04/18/06	3780.11	155.82	0	3624.29
MW-112	10/11/06	3780.11	NR	--	--
MW-112	04/17/07	3780.11	158.88	0	3621.23
MW-112	10/22/07	3780.11	155.43	0	3624.68
MW-112	04/08/09	PLUGGED AND ABANDONED			
MW-113	01/05/00	3772.67	147.43	0	3625.24
MW-113	04/26/00	3772.67	148.28	0.88	3625.03
MW-113	09/27/00	3772.67	147.72	0	3624.95
MW-113	04/16/01	3772.67	148.11	0.13	3624.65
MW-113	10/29/01	3772.67	148.95	0.2	3623.87
MW-113	04/15/02	3772.67	148.72	0.14	3624.05
MW-113	10/14/02	3772.67	147.33	0	3625.34
MW-113	04/15/03	3772.67	148.69	0.53	3624.37
MW-113	10/14/03	3772.67	149.24	0.21	3623.58
MW-113	04/05/04	3772.67	142.42	0.2	3630.40
MW-113	10/05/04	3772.67	144.58	0	3628.09
MW-113	04/19/05	3772.67	147.90	0	3624.77
MW-113	10/24/05	3772.67	147.51	0	3625.16
MW-113	04/18/06	3772.67	148.21	0	3624.46
MW-113	10/11/06	3772.67	147.29	0	3625.38
MW-113	04/17/07	3772.67	148.61	0.31	3623.8337
MW-113	10/22/07	3772.67	NA	--	--
MW-113	05/27/09	3772.67	149.10	--	--
MW-114	01/05/00	3805.32	181.31	0	3624.01
MW-114	04/26/00	3805.32	81.48	0	3723.84
MW-114	09/27/00	3805.32	181.69	0	3623.63
MW-114	04/16/01	3805.32	181.95	0	3623.37
MW-114	10/29/01	3805.32	182.05	0	3623.27
MW-114	04/15/02	3805.32	182.31	0	3623.01
MW-114	10/14/02	3805.32	180.12	0	3625.20
MW-114	04/15/03	3805.32	181.52	0	3623.80
MW-114	10/14/03	3805.32	182.64	0	3622.68
MW-114	04/05/04	3805.32	182.81	0	3622.51
MW-114	10/05/04	3805.32	179.68	0	3625.64
MW-114	04/19/05	3805.32	181.15	0	3624.17
MW-114	10/24/05	3805.32	181.61	0	3623.71
MW-114	04/18/06	3805.32	181.71	0	3623.61
MW-114	10/11/06	3805.32	180.09	0	3625.23
MW-114	04/17/07	3805.32	181.77	0	3623.55
MW-114	10/22/07	3805.32	181.29	0	3624.03
MW-114	04/02/09	PLUGGED AND ABANDONED			
MW-115	01/05/00	3804.69	181.19	0	3623.50
MW-115	04/26/00	3804.69	181.11	0	3623.58
MW-115	09/27/00	3804.69	181.50	0	3623.19

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Appendix A
Historic Fluid Level Data, May 1991 - May 2009
Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-115	04/16/01	3804.69	181.31	0	3623.38
MW-115	10/29/01	3804.69	181.60	0	3623.09
MW-115	04/15/02	3804.69	182.45	0	3622.24
MW-115	10/14/02	3804.69	178.64	0	3626.05
MW-115	04/15/03	3804.69	181.08	0	3623.61
MW-115	10/14/03	3804.69	182.24	0	3622.45
MW-115	04/05/04	3804.69	182.45	0	3622.24
MW-115	10/05/04	3804.69	179.42	0	3625.27
MW-115	04/19/05	3804.69	180.52	0	3624.17
MW-115	10/24/05	3804.69	180.28	0	3624.41
MW-115	04/18/06	3804.69	181.09	0	3623.60
MW-115	10/11/06	3804.69	179.71	0	3624.98
MW-115	04/16/07	3804.69	181.17	0	3623.52
MW-115	10/22/07	3804.69	180.79	0	3623.90
MW-115	03/30/09	PLUGGED AND ABANDONED			
MW-116	04/26/00	3792.11	167.45	0	3624.66
MW-116	09/27/00	3792.11	168.18	0	3623.93
MW-116	04/16/01	3792.11	168.23	0	3623.88
MW-116	10/29/01	3792.11	168.48	0	3623.63
MW-116	04/15/02	3792.11	168.75	0	3623.36
MW-116	10/14/02	3792.11	167.25	0	3624.86
MW-116	04/15/03	3792.11	168.04	0	3624.07
MW-116	10/14/03	3792.11	169.16	0	3622.95
MW-116	04/05/04	3792.11	169.32	0	3622.79
MW-116	10/05/04	3792.11	165.69	0	3626.42
MW-116	04/19/05	3792.11	167.98	0	3624.13
MW-116	10/24/05	3792.11	162.50	0	3629.61
MW-116	04/18/06	3792.11	168.31	0	3623.80
MW-116	10/11/06	3792.11	167.20	0	3624.91
MW-116	04/17/07	3792.11	168.41	0	3623.7
MW-116	10/22/07	3792.11	167.95	0	3624.16
MW-116	04/08/09	PLUGGED AND ABANDONED			
MW-117A	01/05/00	3808.24	182.80	0	3625.44
MW-117A	04/26/00	3808.24	185.28	0	3622.96
MW-117A	09/27/00	3808.24	165.91	0	3642.33
MW-117A	04/16/01	3808.24	185.90	0	3622.34
MW-117A	10/29/01	3808.24	185.88	0	3622.36
MW-117A	04/15/02	3808.24	186.35	0	3621.89
MW-117A	10/14/02	3808.24	184.32	0	3623.92
MW-117A	04/15/03	3808.24	185.75	0	3622.49
MW-117A	10/14/03	3808.24	186.62	0	3621.62
MW-117A	04/05/04	3808.24	187.29	0.69	3621.45
MW-117A	10/05/04	3808.24	183.99	0	3624.25
MW-117A	04/19/05	3808.24	184.97	0	3623.27
MW-117A	10/24/05	3808.24	184.47	0	3623.77
MW-117A	04/18/06	3808.24	184.15	0	3624.09
MW-117A	10/11/06	3808.24	183.77	0	3624.47
MW-117A	04/16/07	3808.24	181.77	0	3626.47
MW-117A	10/22/07	3808.24	184.86	0	3623.38
MW-117A	03/31/09	PLUGGED AND ABANDONED			
MW-118	01/05/00	3762.88	138.21	0	3624.67
MW-118	04/26/00	3762.88	138.50	0	3624.38
MW-118	09/27/00	3762.88	138.85	0	3624.03
MW-118	04/16/01	3762.88	138.98	0	3623.90
MW-118	10/29/01	3762.88	129.35	0	3633.53
MW-118	04/15/02	3762.88	139.35	0	3623.53
MW-118	10/14/02	3762.88	138.14	0	3624.74
MW-118	04/15/03	3762.88	138.82	0	3624.06
MW-118	10/14/03	3762.88	139.86	0	3623.02
MW-118	04/05/04	3762.88	139.26	0	3623.62
MW-118	10/05/04	3762.88	135.21	0	3627.67
MW-118	04/19/05	3762.88	138.64	0	3624.24
MW-118	10/24/05	3762.88	130.34	0	3632.54
MW-118	04/18/06	3762.88	139.09	0	3623.79
MW-118	10/11/06	3762.88	136.25	0	3626.63
MW-118	04/17/07	3762.88	139.06	0	3623.82
MW-118	10/22/07	3762.88	138.71	0	3624.17
MW-118	04/14/09	PLUGGED AND ABANDONED			
MW-119	01/05/00	3824.74	201.21	0	3623.53
MW-119	04/26/00	3824.74	201.30	0	3623.44
MW-119	09/27/00	3824.74	201.35	0	3623.39
MW-119	04/16/01	3824.74	201.45	0	3623.29
MW-119	10/29/01	3824.74	202.67	0	3622.07

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Appendix A
Historic Fluid Level Data, May 1991 - May 2009
Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-119	04/15/02	3824.74	201.71	0	3623.03
MW-119	10/14/02	3824.74	200.38	0	3624.36
MW-119	04/15/03	3824.74	200.87	0	3623.87
MW-119	10/14/03	3824.74	202.03	0	3622.71
MW-119	04/05/04	3824.74	202.23	0	3622.51
MW-119	10/05/04	3824.74	199.54	0	3625.20
MW-119	04/19/05	3824.74	200.78	0	3623.96
MW-119	10/24/05	3824.74	200.11	0	3624.63
MW-119	04/19/06	3824.74	200.97	0	3623.77
MW-119	10/11/06	3824.74	200.49	0	3624.25
MW-119	04/17/07	3824.74	201.34	0	3623.40
MW-119	10/22/07	3824.74	200.71	0	3624.03
MW-119	03/31/09	PLUGGED AND ABANDONED			
MW-120	01/05/00	3820.65	195.61	1.17	3625.89
MW-120	04/26/00	3820.65	196.32	0.01	3624.34
MW-120	09/27/00	3820.65	196.28	0	3624.37
MW-120	04/16/01	3820.65	197.43	0.83	3623.83
MW-120	10/29/01	3820.65	197.32	0.12	3623.42
MW-120	04/15/02	3820.65	197.14	0	3623.51
MW-120	10/14/02	3820.65	196.28	0	3624.37
MW-120	04/15/03	3820.65	198.85	2.33	3623.50
MW-120	10/14/03	3820.65	197.53	0.01	3623.13
MW-120	04/05/04	3820.65	197.67	0.4	3623.27
MW-120	10/05/04	3820.65	193.99	0.14	3626.76
MW-120	04/19/05	3820.65	196.50	0	3624.15
MW-120	10/24/05	3820.65	195.91	0.01	3624.75
MW-120	04/18/06	3820.65	196.54	0.01	3624.12
MW-120	10/11/06	3820.65	195.68	0	3624.97
MW-120	04/16/07	3820.65	196.77	3623.88	978.4476
MW-120	10/22/07	3820.65	NA	--	--
MW-120	04/09/09	PLUGGED AND ABANDONED			
MW-121	01/05/00	3820.88	195.12	0	3625.76
MW-121	04/26/00	3820.88	195.40	0	3625.48
MW-121	09/27/00	3820.88	197.55	0.79	3623.91
MW-121	04/16/01	3820.88	197.85	0.65	3623.50
MW-121	10/29/01	3820.88	197.60	0.05	3623.32
MW-121	04/15/02	3820.88	197.68	0	3623.20
MW-121	10/14/02	3820.88	196.37	0	3624.51
MW-121	04/15/03	3820.88	197.30	0.04	3623.61
MW-121	10/14/03	3820.88	197.79	0.05	3623.13
MW-121	04/05/04	3820.88	197.82	0.02	3623.07
MW-121	10/05/04	3820.88	194.43	0	3626.45
MW-121	04/19/05	3820.88	196.48	0.02	3624.41
MW-121	10/24/05	3820.88	196.02	0.02	3624.87
MW-121	04/18/06	3820.88	196.82	0.02	3624.07
MW-121	10/11/06	3820.88	195.77	0	3625.11
MW-121	04/17/07	3820.88	196.81	0	3624.07
MW-121	10/22/07	3820.88	196.39	0	3624.49
MW-121	04/08/09	PLUGGED AND ABANDONED			
MW-122	01/05/00	3822.79	197.61	0	3625.18
MW-122	04/26/00	3822.79	199.17	0	3623.62
MW-122	09/27/00	3822.79	199.50	0	3623.29
MW-122	04/16/01	3822.79	199.64	0	3623.15
MW-122	10/29/01	3822.79	199.87	0	3622.92
MW-122	04/15/02	3822.79	199.52	0	3623.27
MW-122	10/14/02	3822.79	198.22	0	3624.57
MW-122	04/15/03	3822.79	198.76	0	3624.03
MW-122	10/14/03	3822.79	199.99	0	3622.80
MW-122	04/05/04	3822.79	200.13	0	3622.66
MW-122	10/05/04	3822.79	197.03	0	3625.76
MW-122	04/19/05	3822.79	198.69	0	3624.10
MW-122	10/24/05	3822.79	198.09	0	3624.70
MW-122	04/18/06	3822.79	198.88	0	3623.91
MW-122	10/11/06	3822.79	197.89	0	3624.90
MW-122	04/17/07	3822.79	199.18	0	3623.61
MW-122	10/22/07	3822.79	198.58	0	3624.21
MW-122	03/31/09	PLUGGED AND ABANDONED			
MW-123	01/05/00	3768.77	142.88	0.61	3626.34
MW-123	04/26/00	3768.77	143.98	0.13	3624.88
MW-123	09/27/00	3768.77	144.15	0	3624.62
MW-123	04/16/01	3768.77	144.32	0	3624.45
MW-123	10/29/01	3768.77	144.88	0.23	3624.06
MW-123	04/15/02	3768.77	144.82	0.51	3624.32
MW-123	10/14/02	3768.77	143.70	0.08	3625.13

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NR = No Record

Appendix A
Historic Fluid Level Data, May 1991 - May 2009
Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-123	04/15/03	3768.77	144.25	0	3624.52
MW-123	10/14/03	3768.77	145.36	0	3623.41
MW-123	04/05/04	3768.77	145.47	0.06	3623.34
MW-123	10/05/04	3768.77	141.02	0	3627.75
MW-123	04/19/05	3768.77	144.08	0	3624.69
MW-123	10/24/05	3768.77	143.73	0	3625.04
MW-123	04/18/06	3768.77	144.50	0	3624.27
MW-123	10/11/06	3768.77	143.55	0	3625.22
MW-123	04/17/07	3768.77	144.54	0	3624.23
MW-123	10/22/07	3768.77	144.12	0	3624.65
MW-123	04/14/09	PLUGGED AND ABANDONED			
MW-124	01/05/00	3777.83	151.95	0	3625.88
MW-124	04/26/00	3777.83	152.92	0	3624.91
MW-124	09/27/00	3777.83	153.71	0	3624.12
MW-124	04/16/01	3777.83	153.95	0.67	3624.37
MW-124	10/29/01	3777.83	153.67	0.06	3624.20
MW-124	04/15/02	3777.83	154.23	0.38	3623.88
MW-124	10/14/02	3777.83	152.75	0.12	3625.17
MW-124	04/15/03	3777.83	153.44	0	3624.39
MW-124	10/14/03	3777.83	154.45	0	3623.38
MW-124	04/05/04	3777.83	154.21	0	3623.62
MW-124	10/05/04	3777.83	149.98	0	3627.85
MW-124	04/19/05	3777.83	153.12	0	3624.71
MW-124	10/24/05	3777.83	152.81	0	3625.02
MW-124	04/18/06	3777.83	153.42	0	3624.41
MW-124	10/11/06	3777.83	152.58	0.01	3625.26
MW-124	04/17/07	3777.83	153.35	0	3624.48
MW-124	10/22/07	3777.83	NA	--	--
MW-124	04/07/09	PLUGGED AND ABANDONED			
MW-125	01/05/00	3790.61	166.64	1.27	3624.90
MW-125	04/26/00	3790.61	166.07	0	3624.54
MW-125	09/27/00	3790.61	156.53	0.01	3634.09
MW-125	04/16/01	3790.61	166.60	0	3624.01
MW-125	10/29/01	3790.61	166.91	0	3623.70
MW-125	04/15/02	3790.61	167.22	0	3623.39
MW-125	10/14/02	3790.61	166.78	1.14	3624.66
MW-125	04/15/03	3790.61	166.96	0.03	3623.67
MW-125	10/14/03	3790.61	167.94	0	3622.89
MW-125	04/05/04	3790.61	D	--	--
MW-125	10/05/04	3790.61	164.10	0.02	3626.52
MW-125	04/19/05	3790.61	166.50	0.04	3624.14
MW-125	10/24/05	3790.61	166.10	0.07	3624.56
MW-125	04/18/06	3790.61	D	--	--
MW-125	10/11/06	3790.61	165.70	0.02	3624.92
MW-125	04/17/07	3790.61	143.7	0	3646.91
MW-125	10/22/07	3790.61	NA	--	--
MW-125	04/07/09	PLUGGED AND ABANDONED			
MW-127	01/05/00	3825.17	202.12	0	3623.05
MW-127	04/26/00	3825.17	202.34	0.46	3623.17
MW-127	09/27/00	3825.17	202.00	0	3623.17
MW-127	04/16/01	3825.17	202.70	0.07	3622.52
MW-127	10/29/01	3825.17	202.51	0.03	3622.68
MW-127	04/15/02	3825.17	202.74	0	3622.43
MW-127	10/14/02	3825.17	200.92	0	3624.25
MW-127	04/15/03	3825.17	202.50	0	3622.67
MW-127	10/14/03	3825.17	202.99	0	3622.18
MW-127	04/05/04	3825.17	203.15	0	3622.02
MW-127	10/05/04	3825.17	200.48	0	3624.69
MW-127	04/19/05	3825.17	201.81	0	3623.36
MW-127	10/24/05	3825.17	201.00	0	3624.17
MW-127	04/18/06	3825.17	201.80	0	3623.37
MW-127	10/11/06	3825.17	200.66	0	3624.51
MW-127	04/17/07	3825.17	202.3	0	3622.87
MW-127	10/22/07	3825.17	201.97	0	3623.20
MW-127	05/27/09	3825.17	203.10	0	3622.07
MW-128	01/05/00	3786.08	160.91	0	3625.17
MW-128	04/26/00	3786.08	161.25	0	3624.83
MW-128	09/27/00	3786.08	162.88	0	3623.20
MW-128	04/16/01	3786.08	161.87	0	3624.21
MW-128	10/29/01	3786.08	162.31	0	3623.77
MW-128	04/15/02	3786.08	162.41	0	3623.67
MW-128	10/14/02	3786.08	161.09	0	3624.99
MW-128	04/15/03	3786.08	162.10	0	3623.98

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Appendix A
Historic Fluid Level Data, May 1991 - May 2009
Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
MW-128	10/14/03	3786.08	162.85	0	3623.23
MW-128	04/05/04	3786.08	162.94	0	3623.14
MW-128	10/05/04	3786.08	159.88	0	3626.20
MW-128	04/19/05	3786.08	161.62	0	3624.46
MW-128	10/24/05	3786.08	161.18	0	3624.90
MW-128	04/18/06	3786.08	162.06	0	3624.02
MW-128	10/11/06	3786.08	161.04	0	3625.04
MW-128	04/17/07	3786.08	161.11	0	3624.97
MW-128	10/22/07	3786.08	NA	--	--
MW-128	04/08/09	PLUGGED AND ABANDONED			
MW-129	01/05/00	3800.82	175.48	0.84	3625.95
MW-129	04/26/00	3800.82	176.90	0	3623.92
MW-129	09/27/00	3800.82	176.48	0	3624.34
MW-129	04/16/01	3800.82	178.40	0.7	3622.93
MW-129	10/29/01	3800.82	178.65	0.99	3622.89
MW-129	04/15/02	3800.82	180.80	0.06	3620.06
MW-129	10/14/02	3800.82	175.98	0	3624.84
MW-129	04/15/03	3800.82	178.78	2.02	3623.51
MW-129	10/14/03	3800.82	180.92	3.31	3622.32
MW-129	04/05/04	3800.82	178.63	0.01	3622.20
MW-129	10/05/04	3800.82	175.43	0	3625.39
MW-129	04/19/05	3800.82	177.05	0	3623.77
MW-129	10/24/05	3800.82	176.37	0.01	3624.46
MW-129	04/18/06	3800.82	177.32	0	3623.50
MW-129	10/11/06	3800.82	175.94	0	3624.88
MW-129	04/16/07	3800.82	177.39	0	3623.43
MW-129	10/22/07	3800.82	NA	--	--
MW-129	03/26/09	PLUGGED AND ABANDONED			
MW-130	01/05/00	3775.54	149.65	0.60	3626.33
MW-130	04/26/00	3775.54	151.03	0.52	3624.89
MW-130	09/27/00	3775.54	150.93	0.08	3624.67
MW-130	04/16/01	3775.54	151.24	0.14	3624.40
MW-130	10/29/01	3775.54	151.58	0.19	3624.10
MW-130	04/15/02	3775.54	151.64	0.03	3623.92
MW-130	10/14/02	3775.54	150.44	0.09	3625.17
MW-130	04/15/03	3775.54	150.99	0	3624.55
MW-130	10/14/03	3775.54	152.07	0.03	3623.49
MW-130	04/05/04	3775.54	152.13	0	3623.41
MW-130	10/05/04	3775.54	147.77	0	3627.77
MW-130	04/19/05	3775.54	150.78	0	3624.76
MW-130	10/24/05	3775.54	150.53	0	3625.01
MW-130	04/18/06	3775.54	150.98	0	3624.56
MW-130	10/11/06	3775.54	150.25	0	3625.29
MW-130	04/17/07	3775.54	151.26	0	3624.28
MW-130	10/22/07	3775.54	9.76	0	3765.78
MW-130	04/08/09	PLUGGED AND ABANDONED			
MW-131	01/05/00	3784.23	158.32	0	3625.91
MW-131	04/26/00	3784.23	158.71	0	3625.52
MW-131	09/27/00	3784.23	159.71	0	3624.52
MW-131	04/16/01	3784.23	160.20	0	3624.03
MW-131	10/29/01	3784.23	160.38	0	3623.85
MW-131	04/15/02	3784.23	160.71	0	3623.52
MW-131	10/14/02	3784.23	159.22	0	3625.01
MW-131	04/15/03	3784.23	159.95	0	3624.28
MW-131	10/14/03	3784.23	161.06	0	3623.17
MW-131	04/05/04	3784.23	161.24	0	3622.99
MW-131	10/05/04	3784.23	157.10	0	3627.13
MW-131	04/19/05	3784.23	159.79	0	3624.44
MW-131	10/24/05	3784.23	159.41	0	3624.82
MW-131	04/18/06	3784.23	160.24	0	3623.99
MW-131	10/11/06	3784.23	159.09	0	3625.14
MW-131	04/17/07	3784.23	160.3	0	3623.93
MW-131	10/22/07	3784.23	159.84	0	3624.39
MW-131	04/08/09	PLUGGED AND ABANDONED			
IW-1	07/16/96	3808.55	185.32	2.91	3625.35
IW-1	10/13/96	3808.55	181.83	2.81	3628.77
IW-1	02/03/97	3808.55	185.60	5.38	3626.87
IW-1	04/28/97	3808.55	183.12	1.53	3626.54
IW-1	07/14/97	3808.55	182.27	0.38	3626.55
IW-1	10/13/97	3808.55	181.80	0.16	3626.86
IW-1	11/04/97	3808.55	52.65	0	3755.90
IW-1	11/12/97	3808.55	55.85	0	3752.70
IW-1	11/19/97	3808.55	41.80	0	3766.75

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 Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
IW-1	11/24/97	3808.55	70.90	0	3737.65
IW-1	12/10/97	3808.55	4.00	0	3804.55
IW-1	04/27/98	3808.55	82.27	0	3726.28
IW-1	05/28/98	3808.55	11.26	0	3797.29
IW-1	06/15/98	3808.55	181.05	0	3627.50
IW-1	10/09/98	3808.55	61.46	0	3747.09
IW-1	01/05/00	3808.55	18.15	0	3790.40
IW-1	04/26/00	3808.55	19.22	0	3789.33
IW-1	09/27/00	3808.55	NR	--	--
IW-1	04/16/01	3808.55	NR	--	--
IW-1	10/29/01	3808.55	NR	--	--
IW-1	04/15/02	3808.55	184.20	0	3624.35
IW-1	10/14/02	3808.55	182.79	0	3625.76
IW-1	04/15/03	3808.55	183.69	0	3624.86
IW-1	10/14/03	3808.55	NG	--	--
IW-1	04/05/04	3808.55	NG	--	--
IW-1	10/05/04	3808.55	NG	--	--
IW-1	04/19/05	3808.55	NG	--	--
IW-1	10/24/05	3808.55	NR	--	--
IW-1	04/18/06	3808.55	NR	--	--
IW-1	10/11/06	3808.55	182.72	0	3625.83
IW-1	04/17/07	3808.55	184.05	0	3624.50
IW-1	10/22/07	3808.55	183.55	0	3625.00
IW-1	04/14/09	PLUGGED AND ABANDONED			
IW-2	08/01/98	3835.86	207.22	0	3628.64
IW-2	10/13/98	3835.86	205.52	0	3630.34
IW-2	02/03/97	3835.86	52.92	0	3782.94
IW-2	04/28/97	3835.86	28.89	0	3806.97
IW-2	07/14/97	3835.86	133.89	0	3701.97
IW-2	10/13/97	3835.86	29.61	0	3806.25
IW-2	11/04/97	3835.86	208.50	0	3627.36
IW-2	11/12/97	3835.86	208.70	0	3627.16
IW-2	11/19/97	3835.86	208.78	0	3627.08
IW-2	11/24/97	3835.86	208.95	0	3626.91
IW-2	12/10/97	3835.86	175.58	0	3660.28
IW-2	01/27/98	3835.86	121.00	0	3714.86
IW-2	02/25/98	3835.86	24.64	0	3811.22
IW-2	04/26/00	3835.86	NR	--	--
IW-2	09/27/00	3835.86	NR	--	--
IW-2	04/16/01	3835.86	NR	--	--
IW-2	10/29/01	3835.86	NR	--	--
IW-2	04/15/02	3835.86	NR	--	--
IW-2	10/14/02	3835.86	NR	--	--
IW-2	04/15/03	3835.86	NG	--	--
IW-2	10/14/03	3835.86	D	--	--
IW-2	04/05/04	3835.86	NG	--	--
IW-2	10/05/04	3835.86	NG	--	--
IW-2	04/19/05	3835.86	NG	--	--
IW-2	10/24/05	3835.86	188.88	0	3646.98
IW-2	04/18/06	3835.86	NG	--	--
IW-2	10/11/06	3835.86	NR	--	--
IW-2	04/17/07	3835.86		0	3835.86
IW-2	10/22/07	3835.86	NR	--	--
IW-2	04/14/09	PLUGGED AND ABANDONED			
SW-1	02/04/97	3808.19	D	--	--
SW-1	05/28/98	3808.19	198.00	0	3610.19
SW-1	06/17/98	3808.19	198.05	0	3610.14
SW-1	04/26/00	3808.19	NR	--	--
SW-1	09/27/00	3808.19	NR	--	--
SW-1	04/16/01	3808.19	NR	--	--
SW-1	10/29/01	3808.19	NR	--	--
SW-1	04/15/02	3808.19	NR	--	--
SW-1	10/14/02	3808.19	NR	--	--
SW-1	04/15/03	3808.19	NG	--	--
SW-1	10/14/03	3808.19	--	--	--
SW-1	04/05/04	3808.19	NG	--	--
SW-1	10/05/04	3808.19	NG	--	--
SW-1	04/19/05	3808.19	NG	--	--
SW-1	10/24/05	3808.19	NR	--	--
SW-1	04/18/06	3808.19	NR	--	--
SW-1	10/11/06	3808.19	183.31	0	3624.88
SW-1	04/30/07	3808.19	185.18	0	3623.01
SW-1	10/22/07	3808.19	29.00	0	3779.19
SW-2	08/21/91	3808.79	180.53	0	3628.26

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Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
SW-2	09/18/91	3808.79	180.53	0	3628.26
SW-2	10/22/91	3808.79	179.74	0	3629.05
SW-2	11/15/91	3808.79	179.44	0	3629.35
SW-2	03/01/92	3808.79	180.12	0	3628.67
SW-2	04/01/92	3808.79	180.00	0	3628.79
SW-2	05/01/92	3808.79	176.52	0	3632.27
SW-2	06/01/92	3808.79	176.06	0	3632.73
SW-2	07/01/92	3808.79	176.06	0	3632.73
SW-2	08/01/92	3808.79	176.99	0	3631.80
SW-2	09/01/92	3808.79	177.57	0	3631.22
SW-2	10/01/92	3808.79	178.02	0	3630.77
SW-2	11/01/92	3808.79	178.31	0	3630.48
SW-2	12/01/92	3808.79	179.06	0	3629.73
SW-2	01/01/93	3808.79	178.88	0	3629.91
SW-2	02/01/93	3808.79	179.08	0	3629.71
SW-2	03/01/93	3808.79	179.31	0	3629.48
SW-2	04/01/93	3808.79	179.04	0	3629.75
SW-2	05/01/93	3808.79	179.22	0	3629.57
SW-2	06/01/93	3808.79	179.39	0	3629.40
SW-2	07/01/93	3808.79	179.76	0	3629.03
SW-2	08/01/93	3808.79	179.76	0	3629.03
SW-2	09/01/93	3808.79	179.86	0	3628.93
SW-2	10/01/93	3808.79	179.63	0	3629.16
SW-2	11/01/93	3808.79	180.39	0	3628.40
SW-2	12/01/93	3808.79	179.62	0	3629.17
SW-2	01/01/94	3808.79	180.41	0	3628.38
SW-2	02/01/94	3808.79	181.55	0	3627.24
SW-2	03/01/94	3808.79	180.10	0	3628.69
SW-2	04/01/94	3808.79	180.58	0	3628.21
SW-2	05/01/94	3808.79	181.13	0	3627.66
SW-2	07/01/94	3808.79	181.00	0	3627.79
SW-2	08/01/94	3808.79	180.61	0	3628.18
SW-2	09/01/94	3808.79	180.52	0	3628.27
SW-2	10/01/94	3808.79	181.56	0	3627.23
SW-2	12/01/94	3808.79	184.89	0	3623.90
SW-2	01/01/95	3808.79	181.26	0	3627.53
SW-2	04/01/95	3808.79	181.50	0	3627.29
SW-2	07/01/95	3808.79	181.62	0	3627.17
SW-2	10/01/95	3808.79	181.70	0	3627.09
SW-2	01/16/96	3808.79	182.21	0	3626.58
SW-2	04/17/96	3808.79	182.25	0	3626.54
SW-2	07/15/96	3808.79	182.24	0	3626.55
SW-2	10/01/96	3808.79	180.89	0	3627.90
SW-2	01/01/97	3808.79	182.21	0	3626.58
SW-2	02/04/97	3808.79	182.31	0	3626.48
SW-2	04/28/97	3808.79	182.80	0	3625.99
SW-2	07/15/97	3808.79	183.04	0	3625.75
SW-2	10/14/97	3808.79	183.89	0	3624.90
SW-2	01/27/98	3808.79	183.74	0	3625.05
SW-2	04/27/98	3808.79	185.05	0	3623.74
SW-2	05/28/98	3808.79	185.13	0	3623.66
SW-2	06/17/98	3808.79	185.15	0	3623.64
SW-2	10/09/98	3808.79	185.65	0	3623.14
SW-2	01/27/99	3808.79	185.94	0	3622.85
SW-2	04/19/99	3808.79	185.62	0	3623.17
SW-2	04/26/00	3808.79	NR	--	--
SW-2	09/27/00	3808.79	NR	--	--
SW-2	04/16/01	3808.79	186.59	0	3622.20
SW-2	10/29/01	3808.79	186.28	0	3622.51
SW-2	04/15/02	3808.79	186.52	0	3622.27
SW-2	10/14/02	3808.79	185.13	0	3623.66
SW-2	04/15/03	3808.79	185.86	0	3622.93
SW-2	10/14/03	3808.79	186.89	0	3621.90
SW-2	04/05/04	3808.79	187.17	0	3621.62
SW-2	10/05/04	3808.79	184.08	0	3624.71
SW-2	04/19/05	3808.79	184.40	0	3624.39
SW-2	10/24/05	3808.79	185.08	0	3623.71
SW-2	04/18/06	3808.79	NR	--	--
SW-2	10/11/06	3808.79	185.02	0	3623.77
SW-2	04/30/07	3808.79	NR	--	--
SW-2	10/22/07	3808.79	NA	--	--
SW-3	07/15/96	3842.29	215.52	0	3626.77
SW-3	10/01/96	3842.29	213.51	0	3628.78
SW-3	02/03/97	3842.29	215.63	0	3626.66
SW-3	04/28/97	3842.29	216.14	0	3626.15
SW-3	07/14/97	3842.29	216.74	0	3625.55

D = Dry
 NA = Not Available
 NG = Not Gauged
 NR = No Record

Appendix A
 Historic Fluid Level Data, May 1991 - May 2009
 Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
SW-3	10/14/97	3842.29	217.51	0	3624.78
SW-3	01/27/98	3842.29	217.54	0	3624.75
SW-3	04/27/98	3842.29	217.80	0	3624.49
SW-3	05/28/98	3842.29	217.98	0	3624.31
SW-3	06/15/98	3842.29	218.50	0	3623.79
SW-3	10/09/98	3842.29	218.58	0	3623.71
SW-3	01/27/99	3842.29	0	--	--
SW-3	04/19/99	3842.29	219.03	0	3623.26
SW-3	01/05/00	3842.29	218.96	0	3623.33
SW-3	04/26/00	3842.29	219.20	0	3623.09
SW-3	09/27/00	3842.29	219.45	0	3622.84
SW-3	04/16/01	3842.29	219.73	0	3622.56
SW-3	10/29/01	3842.29	219.97	0	3622.32
SW-3	04/15/02	3842.29	220.03	0	3622.26
SW-3	10/14/02	3842.29	217.90	0	3624.39
SW-3	04/15/03	3842.29	219.40	0	3622.89
SW-3	10/14/03	3842.29	220.22	0	3622.07
SW-3	04/05/04	3842.29	220.64	0	3621.65
SW-3	10/05/04	3842.29	218.08	0	3624.21
SW-3	04/19/05	3842.29	218.89	0	3623.40
SW-3	10/24/05	3842.29	218.96	0	3623.33
SW-3	04/18/06	3842.29	205.75	0	3636.54
SW-3	10/11/06	3842.29	217.90	0	3624.39
SW-3	04/17/07	3842.29	224.3	0	3617.99
SW-3	10/22/07	3842.29	219.41	0	3622.88

Appendix A
Historic Fluid Level Data, May 1991 - May 2009
Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
VE-1	06/15/98	--	204.78	0	--
VE-1	01/05/00	--	205.54	0	--
VE-1	04/26/00	3829.73	205.80	0	3623.93
VE-1	09/27/00	3829.73	206.05	0	3623.68
VE-1	04/16/01	3829.73	206.05	0	3623.68
VE-1	10/29/01	3829.73	206.43	0	3623.30
VE-1	04/15/02	3829.73	206.42	0	3623.31
VE-1	10/14/02	3829.73	205.28	0	3624.45
VE-1	04/15/03	3829.73	205.81	0	3623.92
VE-1	10/14/03	3829.73	206.78	0	3622.95
VE-1	04/05/04	3829.73	207.04	0	3622.69
VE-1	10/05/04	3829.73	203.40	0	3626.33
VE-1	04/19/05	3829.73	205.81	0	3623.92
VE-1	10/24/05	3829.73	205.31	0	3624.42
VE-1	04/18/06	3829.73	205.76	0	3623.97
VE-1	10/11/06	3829.73	205.00	0	3624.73
VE-1	04/16/07	3829.73	205.84	0	3623.89
VE-1	10/22/07	3829.73	205.64	0	3624.09
VE-1	03/31/09	PLUGGED AND ABANDONED			
VE-2	06/15/98	--	200.67	0	--
VE-2	01/05/00	--	201.48	0	--
VE-2	04/26/00	3825.93	201.71	0	3624.22
VE-2	09/27/00	3825.93	202.10	0	3623.83
VE-2	04/16/01	3825.93	201.87	0	3624.06
VE-2	10/29/01	3825.93	202.43	0	3623.50
VE-2	04/15/02	3825.93	202.35	0	3623.58
VE-2	10/14/02	3825.93	201.32	0	3624.61
VE-2	04/15/03	3825.93	201.65	0	3624.28
VE-2	10/14/03	3825.93	202.78	0	3623.15
VE-2	04/05/04	3825.93	203.02	0	3622.91
VE-2	10/05/04	3825.93	199.20	0	3626.73
VE-2	04/19/05	3825.93	201.91	0	3624.02
VE-2	10/24/05	3825.93	201.44	0	3624.49
VE-2	04/18/06	3825.93	201.98	0	3623.95
VE-2	10/11/06	3825.93	201.17	0	3624.76
VE-2	04/16/07	3825.93	201.94	0	3623.99
VE-2	10/22/07	3825.93	201.79	0	3624.14
VE-2	03/31/09	PLUGGED AND ABANDONED			
VE-3	06/15/98	--	191.32	0	--
VE-3	01/05/00	--	192.13	0	--
VE-3	04/26/00	3816.75	192.32	0	3624.43
VE-3	09/27/00	3816.75	192.78	0	3623.97
VE-3	04/16/01	3816.75	192.63	0	3624.12
VE-3	10/29/01	3816.75	192.94	0	3623.81
VE-3	04/15/02	3816.75	193.02	0	3623.73
VE-3	10/14/02	3816.75	192.05	0	3624.70
VE-3	04/15/03	3816.75	192.46	0	3624.29
VE-3	10/14/03	3816.75	193.45	0	3623.30
VE-3	04/05/04	3816.75	193.70	0	3623.05
VE-3	10/05/04	3816.75	190.25	0	3626.50
VE-3	04/19/05	3816.75	192.63	0	3624.12
VE-3	10/24/05	3816.75	192.17	0	3624.58
VE-3	04/18/06	3816.75	192.60	0	3624.15
VE-3	10/11/06	3816.75	191.95	0	3624.80
VE-3	04/16/07	3816.75	192.68	0	3624.07
VE-3	10/22/07	3816.75	192.54	0	3624.21
VE-3	04/02/09	PLUGGED AND ABANDONED			
VE-4	06/15/98	--	179.89	0	--
VE-4	01/05/00	--	D	--	--
VE-4	04/26/00	3805.45	D	--	--
VE-4	09/27/00	3805.45	D	--	--
VE-4	04/16/01	3805.45	D	--	--
VE-4	10/29/01	3805.45	D	--	--
VE-4	04/15/02	3805.45	D	--	--
VE-4	10/14/02	3805.45	D	--	--
VE-4	04/15/03	3805.45	D	--	--
VE-4	10/14/03	3805.45	D	--	--
VE-4	04/05/04	3805.45	D	--	--
VE-4	10/05/04	3805.45	177.60	0	3627.85
VE-4	04/19/05	3805.45	D	--	--
VE-4	10/24/05	3805.45	D	--	--
VE-4	04/18/06	3805.45	D	--	--
VE-4	10/11/06	3805.45	D	--	--
VE-4	04/17/07	3805.45	0	0	3805.45

D = Dry
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NR = No Record

Appendix A
 Historic Fluid Level Data, May 1991 - May 2009
 Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
VE-4	10/22/07	3805.45	D	--	--
VE-4	04/02/09	PLUGGED AND ABANDONED			
VE-5	06/15/98	--	164.48	0	--
VE-5	04/26/00	3790.10	165.51	0	3624.59
VE-5	09/27/00	3790.10	165.98	0	3624.12
VE-5	04/16/01	3790.10	165.83	0	3624.27
VE-5	10/29/01	3790.10	165.91	0	3624.19
VE-5	04/15/02	3790.10	D	--	--
VE-5	10/14/02	3790.10	D	--	--
VE-5	04/15/03	3790.10	D	--	--
VE-5	10/14/03	3790.10	D	--	--
VE-5	04/05/04	3790.10	D	--	--
VE-5	10/05/04	3790.10	162.90	0	3627.20
VE-5	04/19/05	3790.10	D	--	--
VE-5	10/24/05	3790.10	D	--	--
VE-5	04/18/06	3790.10	D	--	--
VE-5	10/11/06	3790.10	D	--	--
VE-5	04/17/07	3790.1		0	3790.1
VE-5	10/22/07	3790.10	D	--	--
VE-5	04/02/09	PLUGGED AND ABANDONED			
VE-16	10/29/97	3750.96	124.27	0	3626.69
VE-16	11/04/97	3750.96	124.35	0	3626.61
VE-16	11/12/97	3750.96	124.22	0	3626.74
VE-16	11/19/97	3750.96	124.33	0	3626.63
VE-16	11/24/97	3750.96	124.33	0	3626.63
VE-16	12/10/97	3750.96	124.30	0	3626.66
VE-16	02/25/98	3750.96	124.38	0	3626.58
VE-16	06/15/98	3750.96	124.81	0	3626.15
VE-16	01/05/00	3750.96	125.69	0	3625.27
VE-16	04/26/00	3750.96	125.92	0	3625.04
VE-16	09/27/00	3750.96	126.19	0	3624.77
VE-16	04/16/01	3750.96	126.37	0	3624.59
VE-16	10/29/01	3750.96	126.59	0	3624.37
VE-16	04/15/02	3750.96	126.13	0	3624.83
VE-16	10/14/02	3750.96	125.64	0	3625.32
VE-16	04/15/03	3750.96	126.22	0	3624.74
VE-16	10/14/03	3750.96	127.27	0.01	3623.70
VE-16	04/05/04	3750.96	127.37	0	3623.59
VE-16	10/05/04	3750.96	122.73	0	3628.23
VE-16	04/19/05	3750.96	126.05	0	3624.91
VE-16	10/24/05	3750.96	125.75	0	3625.21
VE-16	04/18/06	3750.96	126.47	0	3624.49
VE-16	10/11/06	3750.96	125.62	0	3625.34
VE-16	04/17/07	3750.96	126.48	0	3624.48
VE-16	10/22/07	3750.96	126.11	0	3624.85
VE-16	04/16/09	PLUGGED AND ABANDONED			
VE-17	10/29/97	3756.73	118.48	0	3638.25
VE-17	11/04/97	3756.73	117.00	0	3639.73
VE-17	11/12/97	3756.73	117.93	0	3638.80
VE-17	11/19/97	3756.73	118.13	0	3638.60
VE-17	11/24/97	3756.73	118.32	0	3638.41
VE-17	12/10/97	3756.73	118.24	0	3638.49
VE-17	02/25/98	3756.73	119.27	0	3637.46
VE-17	06/15/98	3756.73	117.27	0	3639.46
VE-17	01/05/00	3756.73	120.11	0	3636.62
VE-17	04/26/00	3756.73	120.84	0	3635.89
VE-17	09/27/00	3756.73	120.46	0	3636.27
VE-17	04/16/01	3756.73	119.54	0	3637.19
VE-17	10/29/01	3756.73	119.54	0	3637.19
VE-17	04/15/02	3756.73	119.08	0	3637.65
VE-17	10/14/02	3756.73	116.69	0	3640.04
VE-17	04/15/03	3756.73	118.41	0	3638.32
VE-17	10/14/03	3756.73	118.19	0	3638.54
VE-17	04/05/04	3756.73	118.98	0	3637.75
VE-17	10/05/04	3756.73	99.50	0	3657.23
VE-17	04/19/05	3756.73	118.27	0	3638.46
VE-17	10/24/05	3756.73	117.24	0	3639.49
VE-17	04/18/06	3756.73	119.95	0	3636.78
VE-17	10/11/06	3756.73	116.13	0	3640.60
VE-17	04/17/07	3756.73	119.57	0	3637.16
VE-17	10/22/07	3756.73	118.12	0	3638.61
VE-17	04/16/09	PLUGGED AND ABANDONED			
VE-18	06/15/98	3756.82	131.71	0	3625.11

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Appendix A
 Historic Fluid Level Data, May 1991 - May 2009
 Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico

Well ID	Date	Measuring Point Elevation (feet amsl)	Depth to Water (feet bmp)	Condensate Thickness (feet)	Corrected Water-Level Elevation (feet amsl)
VE-18	01/05/00	3756.82	131.56	0	3625.26
VE-18	04/26/00	3756.82	131.77	0	3625.05
VE-18	09/27/00	3756.82	132.09	0	3624.73
VE-18	04/16/01	3756.82	132.25	0	3624.57
VE-18	10/29/01	3756.82	132.51	0	3624.31
VE-18	04/15/02	3756.82	132.65	0	3624.17
VE-18	10/14/02	3756.82	131.53	0	3625.29
VE-18	04/15/03	3756.82	132.09	0	3624.73
VE-18	10/14/03	3756.82	133.15	0	3623.67
VE-18	04/05/04	3756.82	133.20	0	3623.62
VE-18	10/05/04	3756.82	128.58	0	3628.24
VE-18	04/19/05	3756.82	131.91	0	3624.91
VE-18	10/24/05	3756.82	131.61	0	3625.21
VE-18	04/18/06	3756.82	132.37	0	3624.45
VE-18	10/11/06	3756.82	131.45	0	3625.37
VE-18	04/17/07	3756.82	132.34	0	3624.48
VE-18	10/22/07	3756.82	131.98	0	3624.84
VE-18	04/16/09	PLUGGED AND ABANDONED			
VE-19	10/29/97	3761.18	136.05	2.05	3626.62
VE-19	11/04/97	3761.18	136.41	2.45	3626.55
VE-19	11/19/97	3761.18	140.88	2.88	3622.40
VE-19	11/24/97	3761.18	140.33	1.39	3621.86
VE-19	12/10/97	3761.18	138.56	0	3622.62
VE-19	01/06/98	3761.18	139.67	2.56	3623.37
VE-19	01/15/98	3761.18	140.90	3.4	3622.76
VE-19	01/20/98	3761.18	140.16	0.48	3621.37
VE-19	02/03/98	3761.18	136.63	0.01	3624.55
VE-19	02/10/98	3761.18	138.66	1.11	3623.33
VE-19	02/17/98	3761.18	139.83	1.89	3622.72
VE-19	02/25/98	3761.18	139.80	1.95	3622.80
VE-19	05/28/98	3761.18	133.78	0	3627.40
VE-19	06/16/98	3761.18	136.97	0	3624.21
VE-19	01/05/00	3761.18	136.37	0.46	3625.15
VE-19	04/26/00	3761.18	NR	--	--
VE-19	09/27/00	3761.18	136.93	0	3624.25
VE-19	04/16/01	3761.18	137.02	0	3624.16
VE-19	10/29/01	3761.18	137.30	0	3623.88
VE-19	04/15/02	3761.18	137.58	0.39	3623.88
VE-19	10/14/02	3761.18	135.98	0.11	3625.28
VE-19	04/15/03	3761.18	136.42	0.02	3624.77
VE-19	10/14/03	3761.18	136.50	0.20	3624.83
VE-19	04/05/04	3761.18	137.77	0	3623.41
VE-19	10/05/04	3761.18	133.09	0.0	3628.09
VE-19	04/19/05	3761.18	136.56	0.13	3624.71
VE-19	10/24/05	3761.18	135.90	0.00	3625.28
VE-19	04/18/06	3761.18	136.71	0.00	3624.47
VE-19	10/11/06	3761.18	135.79	0.00	3625.39
VE-19	04/30/07	3761.18	6.62	0	3754.56
VE-19	10/22/07	3761.18	6.48	0.00	3754.70
VE-19	04/16/09	PLUGGED AND ABANDONED			
VE-20	06/16/98	3768.41	142.26	0	3626.15
VE-20	01/05/00	3768.41	143.31	0	3625.10
VE-20	04/26/00	3768.41	143.33	0	3625.08
VE-20	09/27/00	3768.41	143.68	0	3624.73
VE-20	04/16/01	3768.41	143.64	0	3624.77
VE-20	10/29/01	3768.41	144.15	0	3624.26
VE-20	04/15/02	3768.41	144.25	0	3624.16
VE-20	10/14/02	3768.41	142.97	0	3625.44
VE-20	04/15/03	3768.41	143.69	0	3624.72
VE-20	10/14/03	3768.41	144.81	0	3623.60
VE-20	04/05/04	3768.41	144.48	0	3623.93
VE-20	10/05/04	3768.41	140.59	0	3627.82
VE-20	04/19/05	3768.41	143.54	0	3624.87
VE-20	10/24/05	3768.41	143.21	0	3625.20
VE-20	04/18/06	3768.41	144.00	0	3624.41
VE-20	10/11/06	3768.41	143.02	0	3625.39
VE-20	04/17/07	3768.41	143.93	0	3624.48
VE-20	10/22/07	3768.41	143.6	0	3624.81
VE-20	04/16/09	PLUGGED AND ABANDONED			

Notes:

* MW-77, MW-78, and MW 112- DTW does not agree with historical and other MOC monthly gaugings prior to and after this event - ignore this data

ARCADIS

Appendix B

Historical Analytical Data

Historical BTEX Analytical Data, May 1991 - May 2009
Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico

Well ID	Sample Date	Analytical Results			
		Benzene	Toluene	Ethylbenzene	Total Xylenes
BIEBBLE	05/28/91	--	--	--	<10
BIEBBLE	07/01/91	<5	--	--	--
BIEBBLE	07/19/91	--	<5	<5	--
BIEBBLE	04/01/92	<1	<1	<1	<1
BIEBBLE	07/01/92	<1	<1	<1	<1
BIEBBLE	10/01/92	<1	<1	<1	<1
BIEBBLE	01/01/93	<1	<1	<1	<1
BIEBBLE	04/15/93	<1	<1	<1	<1
BIEBBLE	07/15/93	<0.5	<0.5	<0.5	<0.5
BIEBBLE	10/14/93	<0.5	<0.5	<0.5	<0.5
BIEBBLE	01/13/94	<0.5	<0.5	<0.5	<0.5
BIEBBLE	04/05/94	<0.5	<0.5	<0.5	<0.5
BIEBBLE	07/21/94	<0.5	<0.5	<0.5	<0.5
BIEBBLE	10/06/94	<0.5	<0.5	<0.5	<0.5
BIEBBLE	01/11/95	<0.5	<0.5	<0.5	<0.5
BIEBBLE	04/07/95	<0.5	<0.5	<0.5	<0.5
BIEBBLE	07/21/95	<0.5	<0.5	<0.5	<0.5
BIEBBLE	10/12/95	<0.5	<0.5	<0.5	<0.5
BIEBBLE	01/19/96	<0.5	<0.5	<0.5	<0.5
BIEBBLE	04/17/96	<0.5	<0.5	<0.5	<0.5
BIEBBLE	07/01/96	<0.5	<0.5	<0.5	<0.5
BIEBBLE	10/01/96	<0.5	<0.5	<0.5	0.5
BIEBBLE	02/10/97	<0.5	<0.5	<0.5	<0.5
IW-2	08/01/96	<0.5	<0.5	<0.5	<0.5
LYMAN	05/28/91	--	--	--	<10
LYMAN	07/01/91	<5	--	--	--
LYMAN	07/19/91	--	<5	<5	--
LYMAN	04/01/92	<1	<1	<1	<1
LYMAN	07/01/92	<1	<1	<1	<1
LYMAN	10/01/92	<1	<1	<1	<1
LYMAN	01/01/93	<1	<1	<1	<1
LYMAN	04/15/93	<1	<1	<1	<1
LYMAN	05/12/93	<1	<1	<1	<1
LYMAN	06/28/93	<0.5	<0.5	<0.5	<0.5
LYMAN	07/15/93	<0.5	<0.5	<0.5	<0.5
LYMAN	08/03/93	<0.5	<0.5	<0.5	<0.5
LYMAN	09/21/93	<0.5	<0.5	<0.5	<0.5
LYMAN	10/14/93	<0.5	<0.5	<0.5	<0.5
LYMAN	11/10/93	<0.5	<0.5	<0.5	<0.5
LYMAN	12/06/93	<0.5	<0.5	<0.5	<0.5
LYMAN	01/12/94	<0.5	<0.5	<0.5	<0.5
LYMAN	02/09/94	<0.5	<0.5	<0.5	<0.5
LYMAN	03/16/94	<0.5	<0.5	<0.5	<0.5
LYMAN	04/05/94	<0.5	<0.5	<0.5	<0.5
LYMAN	05/19/94	<0.5	<0.5	<0.5	<0.5
LYMAN	06/23/94	<0.5	<0.5	<0.5	<0.5
LYMAN	07/21/94	<0.5	<0.5	<0.5	<0.5
LYMAN	08/24/94	<0.5	<0.5	<0.5	<0.5
LYMAN	09/20/94	<0.5	<0.5	<0.5	0.8
LYMAN	10/06/94	<0.5	<0.5	<0.5	<0.5
LYMAN	11/30/94	<0.5	<0.5	<0.5	<0.5

Notes:

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Historical BTEX Analytical Data, May 1991 - May 2009
Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico

Well ID	Sample Date	Analytical Results			
		Benzene	Toluene	Ethylbenzene	Total Xylenes
LYMAN	12/16/94	<0.5	<0.5	<0.5	<0.5
LYMAN	01/11/95	<0.5	<0.5	<0.5	<0.5
LYMAN	03/09/95	<0.5	<0.5	<0.5	<0.5
LYMAN	04/07/95	<0.5	<0.5	<0.5	<0.5
LYMAN	05/18/95	<0.5	<0.5	<0.5	<0.5
LYMAN	07/21/95	<0.5	<0.5	<0.5	<0.5
LYMAN	10/12/95	<0.5	<0.5	<0.5	1.6
LYMAN	12/27/95	<0.5	<0.5	<0.5	<0.5
LYMAN	01/19/96	<0.5	<0.5	<0.5	<0.5
LYMAN	03/18/96	<0.5	<0.5	<0.5	<0.5
LYMAN	04/18/96	<0.5	<0.5	<0.5	<0.5
LYMAN	07/01/96	<0.5	<0.5	<0.5	<0.5
LYMAN	10/01/96	<0.5	<0.5	<0.5	<0.5
LYMAN	02/10/97	<0.5	<0.5	<0.5	<0.5
LYMAN	01/14/98	<0.5	<0.5	<0.5	<0.5
LYMAN	04/30/98	<0.5	<0.5	<0.5	<0.5
LYMAN	06/29/98	<1	<1	<1	<1
LYMAN	12/18/00	<5	<5	<5	<10
MW-1	05/01/91	500	--	--	--
MW-1	05/28/91	--	<500	1000	<500
MW-1	09/01/91	250	--	--	--
MW-1	12/01/91	200	200	300	100
MW-10	05/01/91	5500	--	--	--
MW-10	05/28/91	--	7000	500	4500
MW-10	09/01/91	2300	--	--	--
MW-10	12/01/91	2300	<100	200	2500
MW-10	04/01/92	1840	106	<3	2415
MW-10	07/01/92	1842	101	482	2183
MW-10	10/01/92	2100	144	436	759
MW-10	01/01/94	ND	--	ND	ND
MW-10	02/11/97	<0.5	<0.5	<0.5	<0.5
MW-11	09/01/91	3000	--	--	--
MW-11	12/01/91	3800	5800	500	5200
MW-11	04/01/92	3573	2979	484	6714
MW-11	07/01/92	2199	2440	463	3693
MW-11	10/01/92	2755	1896	<3	5196
MW-11	01/01/93	2746	1821	475	4280
MW-11	10/05/94	1800	<50	450	3500
MW-11	07/21/95	95	<0.5	4.4	250
MW-11	01/20/96	1000	32	190	2800
MW-11	04/19/96	650	38	84	2800
MW-11	07/01/96	500	46	370	2300
MW-11	10/01/96	270	15	230	1600
MW-11	02/07/97	270	20	81	1400
MW-12	09/01/91	3800	--	--	--
MW-13	09/01/91	3100	--	--	--
MW-13	12/01/91	3000	750	500	3300
MW-13	04/01/92	3501	142	<3	7137
MW-13	07/01/92	2708	136	597	2247
MW-13	10/01/96	1100	520	1200	2800
MW-13	02/07/97	1300	130	690	1000

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Well ID	Sample Date	Analytical Results			
		Benzene	Toluene	Ethylbenzene	Total Xylenes
MW-13	07/01/98	800	<10	640	170
MW-14	09/01/91	5100	--	--	--
MW-14	06/22/98	820	<10	840	<10
MW-14	04/18/02	116	9	<5	<5
MW-14	10/16/02	23	<5	5	<5
MW-14	04/09/03	<5	<5	<5	<5
MW-14	10/24/03	330	<5	<5	<5
MW-14	Not Sampled - Condensate Present				
MW-14	04/25/05	174	<5	<5	<15
MW-14	04/27/06	31.9	<2.74	<2.03	<5.81
MW-14	04/20/07	30	<5	<5	<15
MW-14	05/27/09	1.1	<1	1.1	17
MW-15	09/01/91	5100	--	--	--
MW-16	09/01/91	1700	--	--	--
MW-16	04/15/93	514	53	39	2134
MW-17	09/01/91	2000	--	--	--
MW-17	04/15/93	1500	58	230	2900
MW-18	09/01/91	4300	--	--	--
MW-18	04/01/92	2900	82	750	1200
MW-18	07/01/92	2700	22	600	55
MW-18	10/01/92	3300	115	870	187
MW-19	07/01/91	4900	--	--	--
MW-19	07/19/91	--	1000	1300	--
MW-19	07/30/91	--	--	--	2500
MW-19	09/01/91	4700	--	--	--
MW-19	04/01/92	3240	347	807	326
MW-19	07/01/92	3000	40	800	41
MW-19	10/01/92	2756	73	758	166
MW-19	04/15/93	3926	130	16	82
MW-19	10/01/96	140	5.9	5.2	17
MW-19	02/07/97	360	980	1100	5600
MW-20	09/01/91	110	--	--	--
MW-21	05/01/91	9	--	--	--
MW-21	05/28/91	--	9	<1	3
MW-21	09/01/91	1000	--	--	--
MW-21	12/01/91	1100	<50	<50	1000
MW-21	04/15/93	114	19	38	38
MW-22	09/01/91	4	--	--	--
MW-24	09/01/91	3400	--	--	--
MW-24	07/01/92	4353	27	55	708
MW-26	09/01/91	3100	--	--	--
MW-26	12/01/91	3000	<100	400	3700
MW-26	07/01/92	2000	48	390	1400
MW-26	10/01/92	1860	59	567	1774
MW-26	01/01/93	1708	82	399	1083
MW-26	04/15/93	861	62	600	2014
MW-28	09/01/91	2200	--	--	--
MW-31	09/01/91	<1	--	--	--
MW-31	07/01/92	332	36	11	54
MW-31	10/01/92	9	32	10	18
MW-32	09/01/91	200	--	--	--

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Well ID	Sample Date	Analytical Results			
		Benzene	Toluene	Ethylbenzene	Total Xylenes
MW-33	09/01/91	6300	--	--	--
MW-34	09/01/91	2500	--	--	--
MW-35	09/01/91	5700	--	--	--
MW-37	06/01/91	<25	--	--	--
MW-37	06/22/91	--	<25	<25	<25
MW-37	09/01/91	150	--	--	--
MW-37	07/14/93	27	7	<3	<3
MW-38	05/01/91	500	--	--	--
MW-38	05/28/91	--	<250	250	<250
MW-38	06/01/91	<10	--	--	--
MW-38	06/22/91	--	<10	<10	<10
MW-38	09/01/91	15	--	--	--
MW-38	12/01/91	15	<1	15	<1
MW-38	04/01/92	67	17	55	7
MW-38	07/01/92	37	34	25	56
MW-38	10/01/92	166	18	242	24
MW-38	10/01/96	0.6	<0.5	<0.5	0.7
MW-38	02/07/97	0.7	<0.5	<0.5	0.7
MW-39	05/01/91	<1	--	--	--
MW-39	05/28/91	--	<1	11	38
MW-39	06/01/91	<1	--	--	--
MW-39	06/22/91	--	<1	<1	<1
MW-39	09/01/91	880	--	--	--
MW-39	01/01/93	14	6	<5	<5
MW-39	04/15/93	28	15	4	11
MW-39	07/15/93	24	3	<3	3
MW-39	10/14/93	19	23	<3	10
MW-39	01/13/94	<2.5	<2.5	8.4	70
MW-39	04/07/94	<0.5	<0.5	4	38
MW-39	07/20/94	<0.5	<0.5	5.9	78
MW-39	01/10/95	<5	7.1	250	80
MW-39	10/01/96	20	<0.5	<0.5	<0.5
MW-39	02/07/97	<0.5	<0.5	<0.5	<0.5
MW-39	07/18/97	<0.5	<0.5	<0.5	<0.5
MW-39	04/30/98	<0.5	<0.5	<0.5	<0.5
MW-39	07/01/98	<1	<1	<1	<1
MW-39	Not Sampled - Dry				
MW-39	Well Plugged & Abandoned				
MW-41	07/01/91	300	--	--	--
MW-41	07/19/91	--	<50	350	--
MW-41	07/30/91	--	--	--	<50
MW-41	09/01/91	200	--	--	--
MW-41	12/01/91	170	30	400	<10
MW-41	07/15/93	12	<5	22	<5
MW-41	10/14/93	8.9	<0.5	17	<0.5
MW-41	01/13/94	5.3	<5	27	140
MW-41	04/06/94	0.6	<0.5	3.8	7.4
MW-41	07/20/94	1.4	31	4.9	<0.5
MW-41	10/06/94	3.2	44	0.7	90
MW-41	01/11/95	13	<5	42	23
MW-41	04/06/95	4.8	<0.5	19	33

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Well ID	Sample Date	Analytical Results			
		Benzene	Toluene	Ethylbenzene	Total Xylenes
MW-41	07/21/95	<0.5	<0.5	1.1	6.3
MW-41	10/12/95	1.8	8	2.6	18
MW-41	01/20/96	<5	10	<5	14
MW-41	04/19/96	1.7	9.8	5.5	6.7
MW-41	07/01/96	<0.5	6.1	3.6	1.7
MW-41	10/01/96	8.1	2.4	5.8	5.5
MW-41	02/07/97	82	6.2	7.2	9.1
MW-41	07/18/97	280	6.9	6.9	23
MW-41	04/30/98	<0.5	7.1	4.5	21
MW-41	06/28/98	41	<1	<1	<1
MW-41	04/20/99	150	<5	<5	<10
MW-42	09/01/91	<1	--	--	--
MW-42	12/01/91	<1	<1	<1	<1
MW-43	06/01/91	<10	--	--	--
MW-43	06/22/91	--	<10	15	10
MW-43	09/01/91	320	--	--	--
MW-43	07/15/93	25	17	<3	3
MW-43	10/14/93	10	11	<3	<3
MW-43	01/13/94	<0.5	<0.5	<0.5	<0.5
MW-43	04/06/94	<0.5	<0.5	1.2	14
MW-43	07/20/94	<0.5	<0.5	1.5	7.1
MW-43	10/06/94	0.8	<0.5	2.3	17
MW-43	01/11/95	3	<0.5	5.5	15
MW-43	04/06/95	0.6	<0.5	2.8	14
MW-43	07/21/95	3	4	5.8	5.9
MW-43	10/12/95	1.2	2.4	3.8	5.5
MW-43	01/20/96	1.4	3.1	6.6	5.3
MW-43	04/19/96	4.4	4.3	1.3	5.3
MW-43	07/01/96	8.2	5.7	4.4	7
MW-43	10/01/96	230	2.1	4.3	3.6
MW-43	02/07/97	64	8.1	18	28
MW-43	07/18/97	110	<1	4.1	<1
MW-43	04/30/98	29	5.8	2.8	26
MW-43	06/22/98	7.3	<1	<1	<1
MW-43	04/20/99	12	<5	<5	<10
MW-43	12/08/99	<5	11	6.2	46
MW-43	04/28/00	4.1	<1	3.6	<1
MW-43	10/02/00	<5	7.4	5.1	41
MW-43	04/19/01	<5	<5	<5	<10
MW-43	10/31/01	<5	6	<5	<10
MW-43	04/17/02	<5	<5	<5	<5
MW-43	10/16/02	<5	8	<5	<5
MW-43	04/08/03	<5	<5	<5	<5
MW-43	10/28/03	<5	<5	<5	<5
MW-43	04/08/04	<5	<5	<5	<5
MW-43	04/25/05	<5	<5	<5	<15
MW-43	04/26/06	<2.57	<2.74	<2.03	<5.81
MW-43	04/20/07	<5	<5	<5	<15
MW-44	06/01/91	75	--	--	--
MW-44	06/22/91	--	<25	220	<25
MW-44	09/01/91	59	--	--	--

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Well ID	Sample Date	Analytical Results			
		Benzene	Toluene	Ethylbenzene	Total Xylenes
MW-44	04/01/92	6	22	24	2
MW-44	07/01/92	97	25	102	96
MW-44	10/01/92	12	34	96	24
MW-44	01/01/93	14	18	65	<1
MW-44	04/15/93	7	15	18	14
MW-44	07/15/93	6	16	<3	18
MW-44	10/14/93	3.6	<0.5	19	5.6
MW-44	01/13/94	12	<5	7.2	14
MW-44	04/06/94	22	<2.5	3.3	11
MW-44	07/20/94	36	<5	12	14
MW-44	10/05/94	130	<25	120	77
MW-44	01/11/95	63	<5	140	26
MW-44	04/06/95	19	2	71	16
MW-44	07/21/95	5.8	<0.5	16	5.6
MW-44	10/12/95	120	<50	240	260
MW-44	01/20/96	51	14	130	15
MW-44	04/19/96	26	11	74	6.3
MW-44	07/01/96	83	99	280	310
MW-44	10/01/96	33	2.7	20	2.6
MW-44	02/07/97	270	26	53	48
MW-44	07/18/97	750	<10	45	<10
MW-44	04/30/98	520	22	17	44
MW-44	06/22/98	440	<5	9.2	<5
MW-44	04/20/99	91	<5	16	<10
MW-45	06/01/91	<1	--	--	--
MW-45	06/22/91	--	<1	<1	<1
MW-45	09/01/91	<1	--	--	--
MW-45	12/01/91	<1	<1	<1	<1
MW-45	07/15/93	<3	6	7	4
MW-45	10/14/93	<3	3	<3	3
MW-45	01/13/94	<0.5	<0.5	<0.5	<0.5
MW-45	04/06/94	<0.5	<0.5	<0.5	<0.5
MW-45	07/20/94	<0.5	<0.5	<0.5	<0.5
MW-45	05/29/09	<1	<1	<1	1.7
MW-46	06/01/91	3200	--	--	--
MW-46	06/22/91	--	<50	900	<50
MW-46	07/01/91	300	--	--	--
MW-46	07/19/91	--	<50	250	--
MW-46	07/30/91	--	--	--	250
MW-46	09/01/91	140	--	--	--
MW-46	10/01/96	900	33	440	59
MW-46	02/11/97	3300	550	1000	1400
MW-46	05/29/97	5000	1200	230	<100
MW-46	07/18/97	6100	1900	270	130
MW-46	04/30/98	1600	41	140	290
MW-46	07/01/98	1700	<5	97	120
MW-46	04/20/99	210	<5	11	20
MW-46	12/08/99	50	43	34	129
MW-46	04/28/00	17	<1	<1	<1
MW-46	10/02/00	12	39	19	128
MW-46	04/19/01	<5	<5	<5	<10

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Well ID	Sample Date	Analytical Results			
		Benzene	Toluene	Ethylbenzene	Total Xylenes
MW-46	10/31/01	<100	<100	<100	<200
MW-46	04/17/02	<5	<5	<5	<5
MW-46	10/16/02	14	<5	<5	<5
MW-46	04/09/03	<5	<5	<5	<5
MW-46		Not Sampled - Dry			
MW-46	04/08/04	10	<5	<5	<5
MW-46	04/27/05	<5	<5	<5	<15
MW-46		Not Sampled - Dry			
MW-46	04/23/07	81.4	<5	<5	<15
MW-46	05/27/09	<1	<1	<1	1.1
MW-47	06/01/91	600	--	--	--
MW-47	06/22/91	--	<100	2000	2700
MW-47	09/01/91	2600	--	--	--
MW-47	12/01/91	2200	<50	<50	<50
MW-47	10/01/96	1500	59	200	250
MW-48	09/01/91	<1	--	--	--
MW-48	12/01/91	<1	5	10	<1
MW-48	07/01/92	47	18	6	18
MW-48	10/01/96	<0.5	<0.5	<0.5	1
MW-49	06/01/91	60	--	--	--
MW-49	06/22/91	--	<10	60	40
MW-49	09/01/91	35	--	--	--
MW-49	07/15/93	210	27	42	30
MW-49	10/14/93	68	26	9	20
MW-49	01/13/94	13	<5	15	110
MW-49	04/06/94	82	<0.5	11	10
MW-49	07/20/94	150	<5	32	27
MW-49	10/05/94	78	49	40	300
MW-49	01/11/95	220	<5	46	97
MW-49	04/06/95	120	<0.5	24	26
MW-49	07/21/95	17	<0.5	3.5	3.4
MW-49	10/12/95	240	<50	59	130
MW-49	01/20/96	160	130	120	570
MW-49	04/19/96	87	23	18	32
MW-49	07/01/96	370	220	190	630
MW-49	10/01/96	95	16	36	12
MW-49	02/07/97	79	66	45	160
MW-49	07/18/97	130	<1	35	9.8
MW-49	04/30/98	130	39	41	69
MW-49	07/01/98	78	<1	15	<1
MW-49	04/20/99	81	<5	32	<10
MW-49	12/08/99	32	68	58	380
MW-49	04/27/00	24	<1	12	<1
MW-49	10/02/00	35	38	18	107
MW-49	04/17/01	21	36	16	117
MW-49	10/31/01	21	<5	<5	<10
MW-49	04/17/02	19	<5	<5	<5
MW-49	10/16/02	31	<5	<5	<5
MW-49	04/08/03	71	<5	<5	<5
MW-49	10/28/03	97	<5	<5	<5
MW-49	04/08/04	76	<5	<5	<5

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		Benzene	Toluene	Ethylbenzene	Total Xylenes
MW-49	04/25/05	<5	<5	<5	<15
MW-49	04/26/06	23	<2.74	<2.03	<5.81
MW-49	04/20/07	26	<5	<5	<15
MW-49	05/28/09	37	<1	<1	1.2
MW-50	06/01/91	<1	--	--	--
MW-50	06/22/91	--	<1	<1	<1
MW-50	09/01/91	<1	--	--	--
MW-50	12/01/91	<1	<1	<1	<1
MW-50	04/01/92	7	18	<3	17
MW-50	07/01/92	4	167	7	11
MW-50	10/01/92	8	10	3	2
MW-50	01/01/93	8	5	<3	5
MW-50	04/15/93	<1	<1	<1	<1
MW-50	07/15/93	<3	12	10	4
MW-50	10/14/93	9	16	<3	<3
MW-50	01/13/94	<0.5	<0.5	<0.5	<0.5
MW-50	04/06/94	<0.5	<0.5	<0.5	<0.5
MW-50	07/20/94	<0.5	<0.5	<0.5	<0.5
MW-50	10/05/94	<0.5	<0.5	<0.5	<0.5
MW-50	01/11/95	<0.5	<0.5	<0.5	<0.5
MW-50	04/06/95	<0.5	<0.5	<0.5	<0.5
MW-50	07/21/95	<0.5	<0.5	<0.5	<0.5
MW-50	10/12/95	<0.5	<0.5	<0.5	<0.5
MW-50	01/20/96	<0.5	<0.5	<0.5	<0.5
MW-50	04/19/96	<0.5	<0.5	<0.5	<0.5
MW-50	07/01/96	<0.5	<0.5	<0.5	<0.5
MW-50	10/01/96	<0.5	<0.5	<0.5	<0.5
MW-50	02/07/97	<0.5	<0.5	<0.5	<0.5
MW-50	07/18/97	<1	<1	<1	<1
MW-50	04/30/98	<0.5	<0.5	<0.5	<0.5
MW-50	06/28/98	<1	<1	<1	<1
MW-50	04/20/99	<5	<5	<5	<10
MW-50	12/08/99	<5	<5	<5	<10
MW-50	05/02/00	<1	<1	<1	<1
MW-50	10/02/00	<5	<5	<5	<10
MW-50	04/17/01	<5	<5	<5	<15
MW-50	10/31/01	<5	<5	<5	<10
MW-50	04/17/02	<5	<5	<5	<5
MW-50	10/16/02	<5	<5	<5	<5
MW-50	04/09/03	<5	<5	<5	<5
MW-50	10/22/03	<5	<5	<5	<5
MW-50	04/08/04	<5	<5	<5	<5
MW-50	04/27/05	<5	<5	<5	<15
MW-50	04/27/06	<2.57	<2.74	<2.03	<5.81
MW-50	04/23/07	<5	<5	<5	<15
MW-51	09/01/91	800	--	--	--
MW-51	12/01/91	<1	<1	<1	<1
MW-52	09/01/91	<1	--	--	--
MW-52	07/01/92	5	31	4	5
MW-53	09/01/91	<1	--	--	--
MW-54	09/01/91	<1	--	--	--

Notes:

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Historical BTEX Analytical Data, May 1991 - May 2009
Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico

Well ID	Sample Date	Analytical Results			
		Benzene	Toluene	Ethylbenzene	Total Xylenes
MW-54	12/01/91	<1	<1	<1	<1
MW-54	04/01/92	10	10	<3	14
MW-54	07/01/92	8	44	23	195
MW-54	10/01/92	62	7	195	630
MW-54	01/01/93	14	4	15	113
MW-54	04/14/93	10	<3	<3	8
MW-54	07/14/93	<3	<3	<3	3
MW-54	10/14/93	17	35	16	24
MW-54	01/12/94	8.6	<0.5	7.4	<0.5
MW-54	04/06/94	<0.5	<0.5	<0.5	<0.5
MW-54	07/20/94	15	1.2	8.5	8.7
MW-54	10/05/94	19	0.6	29	6.3
MW-54	01/10/95	<0.5	<0.5	<0.5	<0.5
MW-54	04/06/95	<0.5	<0.5	<0.5	<0.5
MW-54	07/21/95	<0.5	<0.5	<0.5	<0.5
MW-54	10/11/95	0.7	<0.5	1.7	3
MW-54	01/20/96	<0.5	<0.5	<0.5	<0.5
MW-54	04/18/96	<0.5	<0.5	<0.5	<0.5
MW-54	07/01/96	<0.5	<0.5	<0.5	<0.5
MW-54	10/01/96	0.9	<0.5	0.6	<0.5
MW-54	02/10/97	<0.5	<0.5	<0.5	<0.5
MW-54	07/16/97	0.9	3.2	2.1	17
MW-54	04/29/98	<0.5	<0.5	<0.5	<0.5
MW-54	06/25/98	<1	<1	<1	<1
MW-54	04/22/99	<5	<5	<5	<10
MW-54	01/06/00	<5	<5	<5	<10
MW-54	05/02/00	<1	<1	<1	<1
MW-54	10/03/00	<5	<5	<5	<10
MW-54	04/23/01	<5	<5	<5	<15
MW-54	11/01/01	<5	<5	<5	<10
MW-54	04/18/02	<5	<5	<5	<5
MW-54	10/21/02	<5	<5	<5	<5
MW-54	04/07/03	<5	<5	<5	<5
MW-54	10/27/03	<5	<5	<5	<5
MW-54	04/09/04	<5	<5	<5	<5
MW-54	04/27/05	<5	<5	<5	<15
MW-54	04/26/06	<2.57	<2.74	<2.03	<5.81
MW-54	04/20/07	<5	<5	<5	<15
MW-55	06/01/91	<50	--	--	--
MW-55	06/22/91	--	<50	<50	100
MW-55	09/01/91	940	--	--	--
MW-55	12/01/91	400	25	<25	25
MW-55	04/01/92	297	24	15	34
MW-55	07/01/92	483	36	64	66
MW-55	10/01/92	215	56	92	26
MW-55	01/01/93	390	68	90	32
MW-55	04/14/93	412	20	89	18
MW-55	07/14/93	625	21	8	50
MW-55	10/14/93	581	27	102	18
MW-55	01/12/94	290	<2.5	89	<2.5
MW-55	04/08/94	370	<2.5	33	<2.5

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Well ID	Sample Date	Analytical Results			
		Benzene	Toluene	Ethylbenzene	Total Xylenes
MW-55	07/20/94	360	5.5	16	120
MW-55	10/05/94	910	<5	480	<5
MW-55	01/11/95	650	<5	400	41
MW-55	04/11/95	420	<2.5	260	21
MW-55	07/20/95	350	<5	270	22
MW-55	10/11/95	100	6.1	70	15
MW-55	01/19/96	650	15	430	29
MW-55	04/18/96	370	13	310	22
MW-55	07/01/96	800	35	520	99
MW-55	10/01/96	520	32	460	84
MW-55	02/10/97	410	20	230	64
MW-55	07/16/97	140	11	110	9.2
MW-55	04/29/98	110	12	31	7.7
MW-55	06/25/98	180	<1	31	<1
MW-55	04/22/99	100	<5	13	<10
MW-55	12/09/99	90	19	15	<10
MW-55	05/02/00	68	<1	14	5.5
MW-55	10/04/00	43	10	14	<10
MW-55	04/24/01	50	<5	12	<5
MW-55	11/01/01	32	<5	10	<10
MW-55	04/24/02	43	12	<5	16
MW-55	10/17/02	40	<5	8	<5
MW-55	04/09/03	29	10	<5	<5
MW-55	10/24/03	33	<5	<5	<5
MW-55	04/09/04	17	<5	<5	<5
MW-55	04/27/05	150	5	<5	<15
MW-55	04/26/06	101	<2.74	3.88	<5.81
MW-55	04/19/07	21	<5	<5	<15
MW-56	06/01/91	2100	--	--	--
MW-56	06/22/91	--	<50	2900	<50
MW-56	07/01/91	2000	--	--	--
MW-56	07/19/91	--	500	1000	--
MW-56	07/30/91	--	--	--	1000
MW-56	09/01/91	2200	--	--	--
MW-56	12/01/91	1000	2000	3000	6000
MW-56	07/01/92	1114	64	962	49
MW-56	10/01/92	1026	47	<3	839
MW-56	01/01/93	1128	40	10	804
MW-56	10/01/96	1000	23	94	92
MW-56	02/11/97	370	12	51	51
MW-57	05/28/91	--	--	--	<0.2
MW-57	06/01/91	<1	--	--	--
MW-57	06/22/91	--	1	<1	<1
MW-57	07/01/91	<1	--	--	--
MW-57	07/19/91	--	0.2	0.4	--
MW-57	09/01/91	1600	--	--	--
MW-57	12/01/91	350	<10	<10	<10
MW-57	04/01/92	127	29	<3	16
MW-57	07/01/92	948	422	112	876
MW-57	10/01/92	15	33	<3	78
MW-57	01/01/93	21	40	165	19

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Well ID	Sample Date	Analytical Results			
		Benzene	Toluene	Ethylbenzene	Total Xylenes
MW-57	04/14/93	8	21	15	16
MW-57	07/14/93	6	8	<3	<3
MW-57	10/13/93	<0.5	1.6	<0.5	1.2
MW-57	01/12/94	<0.5	<0.5	<0.5	<0.5
MW-57	04/07/94	<0.5	<0.5	<0.5	<0.5
MW-57	07/19/94	0.7	<0.5	<0.5	1.8
MW-57	10/05/94	1.1	<0.5	<0.5	4
MW-57	01/11/95	4.3	<0.5	<0.5	1.3
MW-57	04/08/95	<0.5	<0.5	<0.5	<0.5
MW-57	07/20/95	<0.5	0.8	<0.5	<0.5
MW-57	10/11/95	64	1.7	0.7	5
MW-57	01/19/96	16	1.5	1	4.2
MW-57	04/18/96	<0.5	0.9	<0.5	<0.5
MW-57	07/01/96	2.8	1	<0.5	1.4
MW-57	10/01/96	54	2.8	3.4	13
MW-57	02/10/97	<0.5	0.9	<0.5	<0.5
MW-57	07/15/97	<0.5	<0.5	<0.5	<0.5
MW-57	04/29/98	<0.5	<0.5	<0.5	0.9
MW-57	06/24/98	<1	<1	<1	<1
MW-57	04/20/99	<5	<5	<5	<10
MW-57	05/04/00	<1	<1	3.4	8.8
MW-57	10/04/00	10	<5	<5	<10
MW-57	04/24/01	<5	<5	<5	<5
MW-57	04/22/02	<5	<5	<5	<5
MW-57	04/10/03	<5	<5	<5	<5
MW-57	04/08/04	<5	<5	<5	25
MW-57	04/26/05	<5	<5	<5	<15
MW-57	04/26/06	<2.57	<2.74	<2.03	<5.81
MW-57	04/23/07	<5	<5	<5	<15
MW-58	09/01/91	40	--	--	--
MW-58	12/01/91	90	40	20	80
MW-58	04/01/92	203	32	56	68
MW-58	07/01/92	178	58	32	44
MW-58	10/01/92	190	49	26	57
MW-58	01/01/93	192	30	23	39
MW-58	04/13/93	55	16	31	9
MW-58	07/13/93	25	42	14	13
MW-58	10/13/93	50	21	212	555
MW-58	04/05/94	<2.5	<2.5	7.4	27
MW-58	07/19/94	2	29	4.5	27
MW-58	10/06/94	6.7	<5	15	39
MW-58	04/08/95	2.2	<0.5	2.1	6.8
MW-58	10/01/96	110	320	940	10000
MW-58	01/30/98	350	23	42	96
MW-58	06/22/98	22	<1	28	35
MW-59	09/01/91	540	--	--	--
MW-59	12/01/91	420	40	240	420
MW-59	04/01/92	42	12	20	20
MW-59	07/01/92	268	45	110	232
MW-59	10/01/92	99	37	44	46
MW-59	01/01/93	26	<3	55	10

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Well ID	Sample Date	Analytical Results			
		Benzene	Toluene	Ethylbenzene	Total Xylenes
MW-59	04/13/93	10	14	12	5
MW-59	10/13/93	10	13	89	433
MW-59	04/05/94	<2.5	<2.5	3.3	25
MW-59	07/19/94	13	69	0.5	73
MW-59	10/06/94	4.1	3.7	23	37
MW-59	06/24/98	<5	<5	79	42
MW-59	05/04/00	29	<1	130	405
MW-59	10/05/00	<100	<100	490	520
MW-59	04/19/01	<5	<5	<5	<10
MW-59	04/23/02	<5	<5	<5	<5
MW-59	04/09/03	<5	<5	<5	<5
MW-59	04/08/04	<5	<5	<5	<5
MW-59	04/21/05	<5	<5	<5	<15
MW-59	04/25/06	<2.57	<2.74	<2.03	<5.81
MW-59	04/20/07	<5	<5	<5	<15
MW-60	05/28/91	--	--	--	<0.2
MW-60	07/01/91	<0.2	--	--	--
MW-60	07/19/91	--	<0.2	0.4	--
MW-60	09/01/91	33	--	--	--
MW-60	12/01/91	<1	<1	<1	<1
MW-60	04/01/92	5	9	<3	4
MW-60	07/01/92	17	1	<1	1
MW-60	10/01/92	32	109	36	57
MW-60	01/01/93	138	4	260	6
MW-60	04/14/93	17	16	<3	12
MW-60	07/14/93	<0.5	<0.5	<0.5	<0.5
MW-60	10/13/93	<0.5	1	0.5	1
MW-60	01/12/94	<0.5	<0.5	<0.5	<0.5
MW-60	04/07/94	<0.5	<0.5	<0.5	<0.5
MW-60	07/19/94	<0.5	1.3	<0.5	3.5
MW-60	10/05/94	<0.5	0.6	0.6	4.9
MW-60	01/10/95	<0.5	<0.5	<0.5	0.6
MW-60	04/07/95	<0.5	<0.5	<0.5	<0.5
MW-60	07/19/95	<0.5	4.9	<0.5	<0.5
MW-60	10/11/95	<0.5	<0.5	<0.5	<0.5
MW-60	01/19/96	<0.5	<0.5	<0.5	<0.5
MW-60	04/18/96	<0.5	<0.5	<0.5	<0.5
MW-60	07/01/96	<0.5	<0.5	<0.5	<0.5
MW-60	10/01/96	2.5	0.9	<0.5	<0.5
MW-60	02/09/97	<0.5	<0.5	0.5	0.8
MW-60	05/06/97	<0.5	<0.5	<0.5	<0.5
MW-60	07/15/97	<0.5	<0.5	<0.5	<0.5
MW-60	10/16/97	<0.5	<0.5	<0.5	<0.5
MW-60	01/30/98	<0.5	<0.5	<0.5	<0.5
MW-60	04/28/98	<0.5	<0.5	<0.5	<0.5
MW-60	07/01/98	<1	<1	<1	<1
MW-60	10/12/98	<0.5	<0.5	<0.5	<0.5
MW-60	02/01/99	<0.5	<0.5	<0.5	<0.5
MW-60	04/20/99	<5	<5	<5	<10
MW-60	12/13/99	<5	<5	<5	<10
MW-60	05/01/00	<1	<1	<1	<1

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Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico

Well ID	Sample Date	Analytical Results			
		Benzene	Toluene	Ethylbenzene	Total Xylenes
MW-60	10/04/00	<5	<5	<5	<10
MW-60	04/19/01	<5	<5	<5	<10
MW-60	11/01/01	<5	<5	<5	<10
MW-60	04/23/02	<5	<5	<5	<5
MW-60	10/17/02	<5	<5	<5	<5
MW-60	04/08/03	<5	<5	<5	<5
MW-60	10/23/03	<5	<5	<5	<5
MW-60	04/08/04	<5	<5	<5	<5
MW-60	04/26/05	<5	<5	<5	<15
MW-60	04/21/06	<2.57	<2.74	<2.03	<5.81
MW-60	04/20/07	<5	<5	<5	<15
MW-61	09/01/91	<1	--	--	--
MW-61	12/01/91	--	<1	<1	<1
MW-61	01/13/94	1.4	1	1.7	1.1
MW-61	04/07/94	<0.5	<0.5	0.5	<0.5
MW-61	07/20/94	3.2	<0.5	<0.5	0.8
MW-61	10/04/94	<5	23	14	160
MW-61	01/11/95	<0.5	0.7	2.5	0.8
MW-61	04/11/95	7	<0.5	7.8	35
MW-61	07/21/95	<0.5	<0.5	<0.5	<0.5
MW-61	10/10/95	<0.5	<0.5	<0.5	<0.5
MW-61	01/20/96	<0.5	<0.5	<0.5	<0.5
MW-61	04/18/96	<0.5	<0.5	<0.5	<0.5
MW-61	07/01/96	<0.5	<0.5	<0.5	<0.5
MW-61	10/01/96	<0.5	<0.5	<0.5	<0.5
MW-61	02/10/97	<0.5	<0.5	<0.5	<0.5
MW-61	07/17/97	<0.5	<0.5	<0.5	<0.5
MW-61	04/29/98	<0.5	<0.5	<0.5	<0.5
MW-61	06/28/98	<1	<1	<1	<1
MW-61	04/20/99	100	<5	13	<10
MW-61	04/20/99	100	<5	13	<10
MW-61	05/03/00	<1	<1	<1	<1
MW-61	10/02/00	<5	<5	<5	<10
MW-61	04/23/01	<5	<5	<5	<10
MW-61	10/31/01	<5	<5	<5	<10
MW-61	04/19/02	<5	<5	<5	<5
MW-61	10/16/02	<5	<5	<5	<5
MW-61	04/08/03	<5	<5	<5	<5
MW-61	10/22/03	<5	<5	<5	<5
MW-61	04/05/04	<5	<5	<5	<5
MW-61	04/21/05	<5	<5	<5	<15
MW-61	04/20/06	<2.57	<2.74	<2.03	<5.81
MW-61	04/19/07	<5	<5	<5	<15
MW-61A	05/28/91	--	--	--	0.5
MW-61A	07/01/91	2	--	--	--
MW-61A	07/19/91	--	1.5	0.4	--
MW-61A	09/01/91	190	--	--	--
MW-61A	12/01/91	10	10	5	75
MW-61A	04/01/92	6	7	<3	13
MW-61A	07/01/92	60	<10	3	8
MW-61A	10/01/92	470	17	<3	2351

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Well ID	Sample Date	Analytical Results			
		Benzene	Toluene	Ethylbenzene	Total Xylenes
MW-61A	01/01/93	585	82	397	2368
MW-61A	04/13/93	2821	173	817	3993
MW-61A	04/05/94	<0.5	<0.5	0.5	3.8
MW-61A	07/19/94	<0.5	<0.5	<0.5	2.5
MW-61A	10/04/94	4.8	4.5	3.7	37
MW-61A	01/10/95	16	<5	30	220
MW-61A	01/20/96	<0.5	<0.5	<0.5	0.8
MW-61A	04/19/96	<0.5	<0.5	<0.5	<0.5
MW-61A	07/01/96	<0.5	<0.5	<0.5	<0.5
MW-61A	10/01/96	1.7	1.7	1.3	9.4
MW-61A	02/06/97	42	3.4	8.4	46
MW-61A	05/07/97	330	59	<25	850
MW-61A	06/27/97	22	11	-5.4	26
MW-61A	07/15/97	16	<10	10	93
MW-61A	10/15/97	35	13	22	95
MW-61A	01/29/98	15	16	26	130
MW-61A	04/29/98	7.1	9.5	24	93
MW-61A	06/28/98	1.5	<1	7.9	20
MW-61A	10/11/98	4.5	22	15	61
MW-61A	02/01/99	<0.5	<0.5	12	54
MW-61A	04/20/99	<5	<5	15	40
MW-61A	12/16/99	<5	6.3	<5	26.7
MW-61A	05/03/00	<1	<1	<1	1.5
MW-61A	10/02/00	<5	<5	<5	<10
MW-61A	04/18/01	<5	<5	<5	<15
MW-61A	10/31/01	<5	<5	<5	<10
MW-61A	04/19/02	<5	<5	<5	<5
MW-61A	10/16/02	<5	<5	<5	<5
MW-61A	04/08/03	<5	<5	<5	<5
MW-61A	10/22/03	<5	<5	<5	<5
MW-61A	04/05/04	<5	<5	<5	<5
MW-61A	04/21/05	<5	<5	<5	<15
MW-61A	04/20/06	<2.57	<2.74	<2.03	<5.81
MW-61A	04/19/07	<5	<5	<5	<15
MW-62	09/01/91	2200	--	--	--
MW-62	12/01/91	1400	<200	400	2400
MW-62	04/01/92	263	48	170	298
MW-62	07/01/92	357	13	184	301
MW-62	10/01/92	212	19	416	1692
MW-62	01/01/93	78	18	--	207
MW-62	04/13/93	33	15	16	24
MW-62	07/14/93	98	12	70	204
MW-62	10/13/93	19	20	20	32
MW-62	01/11/94	4.1	<2.5	13	44
MW-62	04/05/94	<2.5	<2.5	4.4	26
MW-62	07/19/94	4.3	32	7.5	26
MW-62	10/06/94	13	13	11	39
MW-62	04/08/95	7.5	30	12	30
MW-62	07/18/97	20	19	58	210
MW-62	06/26/98	<10	<10	41	56
MW-62	04/21/99	<5	<5	18	20

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Historical BTEX Analytical Data, May 1991 - May 2009
Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico

Well ID	Sample Date	Analytical Results			
		Benzene	Toluene	Ethylbenzene	Total Xylenes
MW-62	05/03/00	4.5	1.5	3.3	16.7
MW-62	10/05/00	14	<5	6	35
MW-62	04/20/01	<5	8.3	<5	24
MW-62	04/22/02	<5	<5	<5	<5
MW-62	04/10/03	8	<5	<5	<5
MW-62	04/08/04	<5	<5	<5	<5
MW-62	04/21/05	9	<5	<5	<15
MW-62	04/25/06	<2.57	<2.74	<2.03	<5.81
MW-62	04/23/07	<5	<5	<5	<15
MW-63	09/01/91	<1	--	--	--
MW-63	12/01/91	<1	<1	<1	<1
MW-63	04/01/92	5	6	<3	8
MW-63	07/01/92	12	28	3	20
MW-63	10/01/92	4	7	17	33
MW-63	01/01/93	12	4	<3	13
MW-63	04/13/93	<1	<1	<1	<1
MW-63	07/13/93	4	<3	<3	<3
MW-63	10/12/93	14	48	11	39
MW-63	01/11/94	<0.5	0.7	<0.5	0.7
MW-63	04/06/94	<0.5	<0.5	<0.5	<0.5
MW-63	07/18/94	1	9.6	1.4	13
MW-63	10/04/94	<0.5	2.6	1	8
MW-63	01/09/95	<0.5	<0.5	<0.5	<0.5
MW-63	04/07/95	<0.5	<0.5	<0.5	<0.5
MW-63	07/18/95	<0.5	1	<0.5	<0.5
MW-63	10/10/95	<0.5	<0.5	<0.5	<0.5
MW-63	01/18/96	<0.5	<0.5	<0.5	<0.5
MW-63	04/17/96	<0.5	<0.5	<0.5	<0.5
MW-63	07/01/96	<0.5	<0.5	<0.5	<0.5
MW-63	10/01/96	<0.5	<0.5	<0.5	<0.5
MW-63	02/05/97	<0.5	<0.5	<0.5	<0.5
MW-63	07/15/97	<0.5	<0.5	<0.5	<0.5
MW-63	10/15/97	<0.5	<0.5	<0.5	<0.5
MW-63	06/25/98	<1	<1	<1	<1
MW-63	10/11/98	<0.5	<0.5	<0.5	<0.5
MW-63	04/22/99	<5	<5	<5	<10
MW-63	04/27/00	<1	<1	<1	<1
MW-63	10/03/00	<5	<5	<5	<10
MW-63	04/24/01	<5	<5	<5	<15
MW-63	04/18/02	<5	<5	<5	<5
MW-63	04/10/03	<5	<5	<5	<5
MW-63	04/08/04	<5	<5	<5	<5
MW-63	04/26/05	<5	<5	<5	<15
MW-63	04/19/06	<2.57	<2.74	<2.03	<5.81
MW-63	04/18/07	<5	<5	<5	<15
MW-64	09/01/91	150	--	--	--
MW-64	12/01/91	130	<10	40	160
MW-64	04/01/92	245	32	82	331
MW-64	07/01/92	115	19	10	40
MW-64	10/01/92	37	61	<3	96
MW-64	01/01/93	6	2	1	4

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Historical BTEX Analytical Data, May 1991 - May 2009
Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico

Well ID	Sample Date	Analytical Results			
		Benzene	Toluene	Ethylbenzene	Total Xylenes
MW-64	04/13/93	5	11	5	9
MW-64	07/13/93	2	<0.5	<0.5	<0.5
MW-64	10/13/93	18	12	3	71
MW-64	11/10/93	<4	<4	<4	<4
MW-64	01/12/94	1.7	<0.5	<0.5	0.9
MW-64	04/06/94	<0.5	<0.5	<0.5	<0.5
MW-64	07/19/94	<0.5	0.5	<0.5	3.6
MW-64	10/05/94	<0.5	0.5	0.6	5.6
MW-64	01/10/95	12	<0.5	5.1	13
MW-64	04/07/95	18	<0.5	18	41
MW-64	07/19/95	17	1.1	9.8	23
MW-64	10/11/95	25	1.7	13	32
MW-64	01/19/96	14	2.2	9.3	23
MW-64	04/18/96	10	2	4.3	7.9
MW-64	07/16/97	84	<25	130	310
MW-64	06/23/98	<1	<1	<1	<1
MW-64	04/21/99	<5	<5	<5	<10
MW-64	12/13/99	<5	<5	<5	<10
MW-64	05/03/00	<1	<1	<1	<1
MW-64	10/04/00	<5	<5	<5	<10
MW-64	04/20/01	<5	<5	<5	<10
MW-64	11/05/01	<5	<5	<5	<10
MW-64	04/22/02	<5	<5	<5	<5
MW-64	10/17/02	<5	<5	<5	<5
MW-64	04/08/03	<5	<5	<5	<5
MW-64	10/22/03	<5	<5	<5	<5
MW-64	04/07/04	<5	<5	<5	<5
MW-64	04/20/05	<5	<5	<5	<15
MW-64	04/26/06	<2.57	<2.74	<2.03	<5.81
MW-64	04/23/07	<5	<5	<5	<15
MW-65	09/01/91	<1	--	--	--
MW-65	12/01/91	--	<1	<1	<1
MW-65	07/15/93	<3	6	<3	3
MW-65	10/05/94	<0.5	<0.5	<0.5	<0.5
MW-65	07/01/96	<0.5	<0.5	<0.5	<0.5
MW-65	10/01/96	<0.5	<0.5	<0.5	<0.5
MW-65	02/11/97	<0.5	<0.5	<0.5	<0.5
MW-65	05/07/97	<0.5	<0.5	<0.5	<0.5
MW-65	04/30/98	<0.5	<0.5	<0.5	<0.5
MW-65	12/09/99	<5	<5	<5	<10
MW-65	10/02/00	<5	<5	<5	<10
MW-65	04/20/01	<5	<5	<5	<10
MW-65	11/01/01	<5	<5	<5	<10
MW-65	10/16/02	<5	<5	<5	<5
MW-65	04/11/03	<5	<5	<5	<5
MW-65		Not Sampled - Dry			
MW-65	04/07/04	<5	<5	<5	<5
MW-65	04/26/06	<2.57	<2.74	<2.03	<5.81
MW-65		Not Sampled - Dry			
MW-65A	09/01/91	680	--	--	--
MW-65A	12/01/91	150	15	<1	15

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Historical BTEX Analytical Data, May 1991 - May 2009
Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico

Well ID	Sample Date	Analytical Results			
		Benzene	Toluene	Ethylbenzene	Total Xylenes
MW-65A	04/01/92	26	15	<3	12
MW-65A	07/01/92	413	235	93	551
MW-65A	10/01/92	11	<3	<3	67
MW-65A	01/01/93	3	<3	<3	11
MW-65A	04/13/93	4	9	3	8
MW-65A	07/13/93	<3	3	<3	<3
MW-65A	10/13/93	7	3	<3	<3
MW-65A	01/11/94	<0.5	<0.5	<0.5	<0.5
MW-65A	04/05/94	<0.5	<0.5	<0.5	<0.5
MW-65A	07/19/94	<0.5	<0.5	<0.5	<0.5
MW-65A	10/06/94	1.7	<0.5	<0.5	<0.5
MW-65A	01/11/95	<0.5	<0.5	<0.5	0.7
MW-65A	04/08/95	<0.5	<0.5	<0.5	0.5
MW-65A	01/20/96	<0.5	<0.5	<0.5	<0.5
MW-65A	04/18/96	<0.5	<0.5	<0.5	2
MW-65A	06/25/98	<1	<1	16	415
MW-66	09/01/91	<1	--	--	--
MW-66	12/01/91	<1	<1	<1	<1
MW-66	04/01/92	4	7	<3	4
MW-66	07/01/92	8	25	7	11
MW-66	10/01/92	12	36	<3	34
MW-66	01/01/93	3	6	3	20
MW-66	04/13/93	<3	5	5	<3
MW-66	07/13/93	8	4	<3	<3
MW-66	10/12/93	13	60	4	29
MW-66	11/10/93	<4	<4	<4	<4
MW-66	01/11/94	<0.5	<0.5	<0.5	0.6
MW-66	04/07/94	<0.5	<0.5	<0.5	<0.5
MW-66	07/19/94	<0.5	0.6	<0.5	0.8
MW-66	10/04/94	<0.5	3	1.5	17
MW-66	01/09/95	<0.5	<0.5	<0.5	<0.5
MW-66	04/11/95	<0.5	<0.5	<0.5	<0.5
MW-66	07/19/95	<0.5	0.9	<0.5	<0.5
MW-66	10/10/95	<0.5	<0.5	<0.5	3.5
MW-66	01/19/96	<0.5	<0.5	<0.5	<0.5
MW-66	04/17/96	<0.5	0.8	<0.5	1
MW-66	07/01/96	<0.5	<0.5	<0.5	0.5
MW-66	10/01/96	<0.5	<0.5	<0.5	<0.5
MW-66	02/05/97	<0.5	<0.5	<0.5	<0.5
MW-66	05/06/97	<0.5	<0.5	<0.5	<0.5
MW-66	07/16/97	<0.5	<0.5	<0.5	<0.5
MW-66	10/15/97	<0.5	<0.5	<0.5	<0.5
MW-66	01/29/98	<0.5	<0.5	<0.5	<0.5
MW-66	04/28/98	<0.5	<0.5	<0.5	<0.5
MW-66	06/17/98	<1	1.6	<1	<1
MW-66	10/11/98	<0.5	<0.5	<0.5	<0.5
MW-66	02/01/99	<0.5	<0.5	<0.5	<0.5
MW-66	04/21/99	<5	<5	<5	<10
MW-66	12/10/99	<5	<5	<5	<10
MW-66	04/27/00	<1	<1	<1	<1
MW-66	10/05/00	<5	<5	<5	<10

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Historical BTEX Analytical Data, May 1991 - May 2009
Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico

Well ID	Sample Date	Analytical Results			
		Benzene	Toluene	Ethylbenzene	Total Xylenes
MW-66	04/18/01	<5	<5	<5	<15
MW-66	11/01/01	<5	<5	<5	<10
MW-66	04/19/02	<5	<5	<5	<5
MW-66	10/16/02	<5	<5	<5	<5
MW-66	04/08/03	<5	<5	<5	<5
MW-66	10/22/03	<5	<5	<5	<5
MW-66	04/06/04	<5	<5	<5	<5
MW-66	04/21/05	<5	<5	<5	<15
MW-66	04/19/06	<2.57	<2.74	<2.03	<5.81
MW-66	04/18/07	<5	<5	<5	<15
MW-66	05/27/09	<1	<1	<1	<1
MW-67	09/01/91	280	--	--	--
MW-67	12/01/91	320	<10	<10	<10
MW-67	04/01/92	5	8	<3	12
MW-67	07/01/92	69	10	20	116
MW-67	10/01/92	3	9	<3	73
MW-67	01/01/93	8	3	<3	12
MW-67	04/13/93	7	18	7	19
MW-67	07/13/93	7	<3	<3	<3
MW-67	10/13/93	<0.5	0.9	<0.5	1.1
MW-67	01/12/94	<0.5	<0.5	<0.5	<0.5
MW-67	04/07/94	<0.5	<0.5	<0.5	<0.5
MW-67	07/19/94	<0.5	0.6	<0.5	3
MW-67	10/05/94	<0.5	<0.5	<0.5	4.3
MW-67	01/11/95	1	<0.5	<0.5	1.1
MW-67	04/07/95	1.8	<0.5	<0.5	1.3
MW-67	07/21/95	<0.5	<0.5	<0.5	0.6
MW-67	10/11/95	6.1	1.8	0.5	4.2
MW-67	01/19/96	4.8	3.6	0.6	4.7
MW-67	04/18/96	3.4	0.9	<0.5	2.5
MW-67	07/01/96	95	110	28	280
MW-67	02/10/97	15	4.8	1.9	41
MW-67	07/16/97	160	330	110	1200
MW-67	06/24/98	1.3	2.7	3.5	45.3
MW-67	04/22/99	<5	<5	<5	<10
MW-67	05/02/00	<1	<1	<1	13.4
MW-67	10/04/00	<5	<5	<5	<10
MW-67	04/19/01	<5	<5	<5	<10
MW-67	11/05/01	<5	<5	<5	<10
MW-67	04/22/02	<5	<5	<5	<5
MW-67	10/17/02	6	<5	<5	<5
MW-67	04/11/03	<5	<5	<5	<5
MW-67	10/22/03	<5	<5	<5	<5
MW-67	04/06/04	<5	<5	<5	<5
MW-67	04/20/05	<5	<5	<5	<15
MW-67	04/20/06	<2.57	<2.74	<2.03	<5.81
MW-67	04/24/07	<5	<5	<5	<15
MW-68	09/01/91	240	--	--	--
MW-68	12/01/91	1900	4500	500	4000
MW-68	04/01/92	2470	3370	550	3866
MW-68	07/01/92	160	267	49	746

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Well ID	Sample Date	Analytical Results			
		Benzene	Toluene	Ethylbenzene	Total Xylenes
MW-68	10/01/92	2205	3327	<3	4721
MW-68	01/01/93	376	944	246	2376
MW-68	04/13/93	650	1900	330	4000
MW-68	07/13/93	150	230	110	1100
MW-68	10/13/93	374	628	286	2398
MW-68	01/11/94	3000	820	1000	7700
MW-68	04/05/94	120	61	170	1300
MW-68	07/19/94	260	170	220	2000
MW-68	10/17/97	740	100	490	3800
MW-68	06/26/98	390	26	140	990
MW-69	09/01/91	2400	--	--	--
MW-69	12/01/91	2100	1100	150	4200
MW-69	07/01/92	568	56	1785	1966
MW-69	10/01/92	1598	71	<3	2879
MW-69	01/01/93	1284	49	309	1931
MW-69	07/18/97	930	23	410	1100
MW-69	04/30/98	970	22	500	530
MW-69	06/29/98	1200	<10	520	510
MW-69	Not Sampled - Condensate Present				
MW-69	Not Sampled - Condensate Present				
MW-69	Not Sampled - Condensate Present				
MW-69	10/18/02	80	<20	40	<20
MW-69	Not Sampled - Condensate Present				
MW-69	Not Sampled - Condensate Present				
MW-69	Not Sampled - Condensate Present				
MW-69	04/21/05	<5	<5	<5	<15
MW-69	04/26/06	<2.57	<2.74	<2.03	<5.81
MW-69	04/19/07	<5	<5	<5	<15
MW-70	09/01/91	<1	--	--	--
MW-70	12/01/91	<1	<1	<1	<1
MW-70	04/01/92	3	17	<3	8
MW-70	07/01/92	<1	3	1	13
MW-70	10/01/92	11	40	63	60
MW-70	01/01/93	<3	<3	8	5
MW-70	04/14/93	9	20	<3	4
MW-70	07/13/93	<1	11	3	<3
MW-70	10/12/93	25	19	19	18
MW-70	11/10/93	<4	<4	<4	40
MW-70	01/11/94	<0.5	0.6	<0.5	<0.5
MW-70	04/06/94	<0.5	<0.5	<0.5	<0.5
MW-70	07/18/94	<0.5	<0.5	<0.5	<0.5
MW-70	10/04/94	1.2	4.3	1.3	12
MW-70	01/09/95	<0.5	2.3	<0.5	2.4
MW-70	04/05/95	<0.5	<0.5	<0.5	1.1
MW-70	07/18/95	<0.5	0.8	<0.5	<0.5
MW-70	10/10/95	<0.5	<0.5	<0.5	<0.5
MW-70	01/18/96	<0.5	<0.5	<0.5	<0.5
MW-70	04/17/96	<0.5	<0.5	<0.5	<0.5
MW-70	07/01/96	<0.5	<0.5	<0.5	<0.5
MW-70	10/01/96	<0.5	<0.5	<0.5	<0.5
MW-70	02/05/97	<0.5	<0.5	<0.5	<0.5

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Well ID	Sample Date	Analytical Results			
		Benzene	Toluene	Ethylbenzene	Total Xylenes
MW-70	10/15/97	<0.5	<0.5	<0.5	<0.5
MW-70	06/16/98	<1	<1	<1	<1
MW-70	04/22/99	<5	<5	<5	<10
MW-70	04/28/00	<1	<1	<1	<1
MW-70	10/03/00	<5	<5	<5	<10
MW-70	04/24/01	<5	<5	<5	<15
MW-70	04/18/02	<5	<5	<5	<5
MW-70	04/06/03	<5	<5	<5	<5
MW-70	04/12/04	<5	<5	<5	<5
MW-70	04/26/05	<5	<5	<5	<15
MW-70	04/20/06	<2.57	<2.74	<2.03	<5.81
MW-70	04/24/07	<5	<5	<5	<15
MW-70	05/27/09	<1	<1	<1	<1
MW-71	09/01/93	<4	<4	<4	<4
MW-71	10/12/93	8	5	4	16
MW-71	11/10/93	<4	<4	<4	<4
MW-71	01/11/94	<0.5	1.3	<0.5	0.5
MW-71	04/06/94	<0.5	<0.5	<0.5	<0.5
MW-71	07/18/94	<0.5	3	0.7	6.2
MW-71	10/04/94	1.1	6.8	2.7	31
MW-71	01/10/95	<0.5	<0.5	<0.5	<0.5
MW-71	06/23/95	<0.5	66	<0.5	<0.5
MW-71	07/18/95	<0.5	1.2	<0.5	1.9
MW-71	10/10/95	<0.5	<0.5	<0.5	7.3
MW-71	01/18/96	<0.5	<0.5	<0.5	<0.5
MW-71	04/17/96	<0.5	<0.5	<0.5	<0.5
MW-71	07/01/96	<0.5	<0.5	<0.5	<0.5
MW-71	10/01/96	<0.5	<0.5	<0.5	<0.5
MW-71	02/09/97	5.2	1.3	0.8	1.3
MW-71	05/06/97	<0.5	<0.5	<0.5	<0.5
MW-71	07/17/97	<0.5	<0.5	<0.5	<0.5
MW-71	10/16/97	<0.5	<0.5	<0.5	<0.5
MW-71	01/29/98	<0.5	<0.5	<0.5	<0.5
MW-71	04/29/98	<0.5	<0.5	<0.5	<0.5
MW-71	06/28/98	<1	<1	<1	<1
MW-71	10/11/98	<0.5	<0.5	<0.5	<0.5
MW-71	02/01/99	<0.5	<0.5	<0.5	<0.5
MW-71	04/21/99	<5	<5	<5	<10
MW-71	12/10/99	<5	<5	<5	<10
MW-71	04/28/00	<1	<1	<1	<1
MW-71	10/02/00	<5	<5	<5	<10
MW-71	04/18/01	<5	<5	<5	<15
MW-71	10/31/01	<5	<5	<5	<10
MW-71	04/23/02	<5	<5	<5	<5
MW-71	10/16/02	<5	<5	<5	<5
MW-71	04/08/03	<5	<5	<5	<5
MW-71	10/21/03	<5	<5	<5	<5
MW-71	04/06/04	<5	<5	<5	<5
MW-71	04/21/05	<5	<5	<5	<15
MW-71	04/20/06	<2.57	<2.74	<2.03	<5.81
MW-71	04/19/07	<5	<5	<5	<15

Notes:

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Historical BTEX Analytical Data, May 1991 - May 2009
Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico

Well ID	Sample Date	Analytical Results			
		Benzene	Toluene	Ethylbenzene	Total Xylenes
MW-72	04/05/94	<2.5	<2.5	4.7	15
MW-72	07/19/94	18	<0.5	5.1	2.8
MW-72	06/30/98	56	<10	100	<10
MW-73	06/30/98	1.1	<1	<1	<1
MW-73	12/14/99	5.7	<5	<5	8.9
MW-73	05/04/00	<1	<1	<1	<1
MW-73	10/05/00	<5	<5	<5	<10
MW-73	04/23/01	<5	<5	<5	<5
MW-73	11/01/01	<5	<5	<5	<10
MW-73	04/24/02	<5	<5	<5	<5
MW-73	10/21/02	<5	<5	<5	<5
MW-73	04/09/03	<5	<5	<5	<5
MW-73	10/24/03	<5	<5	<5	<5
MW-73	04/09/04	<5	<5	<5	<5
MW-73	04/21/05	<5	<5	<5	<15
MW-73	04/21/06	<2.57	<2.74	<2.03	<5.81
MW-73	04/20/07	<5	<5	<5	<15
MW-74	07/18/97	180	320	180	1900
MW-74	06/24/98	220	<10	10	<10
MW-74	12/14/99	100	3900	990	6700
MW-74	05/04/00	<1	19	40	110
MW-74	10/05/00	<5	140	66	1320
MW-74	04/24/01	<100	<100	<100	<100
MW-74	11/01/01	<50	<50	<50	<100
MW-74	04/24/02	7	<5	<5	<5
MW-74	Not Sampled - Condensate Present				
MW-74	04/10/03	<5	<5	<5	<5
MW-74	10/23/03	<5	<5	<5	<5
MW-74	04/09/04	<5	<5	<5	<5
MW-74	04/21/05	11	<5	<5	<15
MW-74	04/21/06	<2.57	<2.74	<2.03	<5.81
MW-74	04/23/07	<5	<5	<5	<15
MW-75	06/30/98	200	<10	89	270
MW-76	10/01/96	<0.5	<0.5	<0.5	<0.5
MW-76	06/29/98	<1	<1	<1	<1
MW-77	07/21/95	<0.5	<0.5	1.9	2.8
MW-77	01/20/96	<0.5	3.1	<0.5	7.1
MW-77	04/19/96	<0.5	3.8	0.8	2.5
MW-77	07/01/96	8	14	19	35
MW-77	10/01/96	160	320	150	1000
MW-77	05/07/97	8.4	70	8.3	52
MW-77	07/18/97	14	30	11	71
MW-77	12/09/99	<5	<5	<5	<10
MW-77	10/03/00	<5	<5	<5	24
MW-77	Not Sampled - Condensate Present				
MW-77	Not Sampled - Dry				
MW-77	10/21/02	<5	<5	<5	<5
MW-77	04/10/03	<5	<5	<5	<5
MW-77	10/24/03	<5	<5	<5	<5
MW-77	04/07/04	<5	<5	<5	<5
MW-77	04/27/05	<5	<5	<5	<15

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Well ID	Sample Date	Analytical Results			
		Benzene	Toluene	Ethylbenzene	Total Xylenes
MW-77	04/26/06	<2.57	<2.74	<2.03	<5.81
MW-77	04/18/07	<5	<5	<5	<15
MW-78	10/01/96	32	15	9.1	35
MW-78	02/10/97	41	7.9	7.4	12
MW-78	05/07/97	20	42	12	23
MW-78	07/17/97	8.2	10	6.6	16
MW-78	04/30/98	1.4	4.9	2	7.7
MW-78	06/28/98	<1	<1	<1	<1
MW-78	04/22/99	<5	<5	<5	<10
MW-78	12/09/99	<5	44	55	420
MW-78	10/05/00	<25	<25	<25	96
MW-78	Not Sampled - Condensate Present				
MW-78	11/02/01	<5	<5	<5	<10
MW-78	04/22/02	<5	<5	<5	<5
MW-78	10/01/02	<5	<5	<5	<5
MW-78	04/10/03	<5	<5	<5	<5
MW-78	10/24/03	<5	<5	<5	<5
MW-78	04/10/04	<5	<5	<5	<5
MW-78	04/27/05	<5	<5	<5	<15
MW-78	04/26/06	<2.57	<2.74	<2.03	<5.81
MW-78	04/18/07	<5	<5	<5	<15
MW-79	01/11/95	110	<5	8.5	61
MW-79	04/06/95	14	<0.5	10	53
MW-79	07/21/95	<5	74	7.7	62
MW-79	10/10/95	16	4	<2.5	3.7
MW-79	01/18/96	10	6.7	1.4	4.9
MW-79	04/19/96	2.4	7.3	1	2.7
MW-79	07/01/96	3.2	6.3	0.9	6.3
MW-79	10/01/96	1.7	5.8	1	4.2
MW-79	02/10/97	<0.5	<0.5	<0.5	<0.5
MW-79	05/07/97	<0.5	<0.5	<0.5	<0.5
MW-79	07/17/97	<0.5	<0.5	<0.5	<0.5
MW-79	04/29/98	<0.5	1.5	<0.5	1.1
MW-79	06/28/98	<1	<1	<1	<1
MW-79	04/22/99	<5	<5	<5	<10
MW-79	12/09/99	<5	<5	<5	<10
MW-79	05/02/00	<1	<1	<1	<1
MW-79	04/19/01	<5	<5	<5	<10
MW-79	11/01/01	<5	<5	<5	<10
MW-79	04/17/02	<5	<5	<5	<5
MW-79	10/18/02	<5	<5	<5	<5
MW-79	Not Sampled - Dry				
MW-79	Not Sampled - Dry				
MW-79	Not Sampled - Dry				
MW-79	Not Sampled - Dry				
MW-79	04/18/07	<5	<5	<5	<15
MW-81	06/29/98	<1	<1	<1	1.5
MW-82	10/11/95	280	<50	450	910
MW-82	06/25/98	70	<5	75	510
MW-83	06/25/98	<10	<10	16	31
MW-84	06/23/98	93	13	55	458

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Historical BTEX Analytical Data, May 1991 - May 2009
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Well ID	Sample Date	Analytical Results			
		Benzene	Toluene	Ethylbenzene	Total Xylenes
MW-85	06/23/98	280	<5	120	6.3
MW-86	10/17/97	510	360	580	1400
MW-86	06/26/98	91	10	28	360
MW-87	08/01/96	<0.5	20	<0.5	0.5
MW-87	10/01/96	<0.5	<0.5	<0.5	<0.5
MW-87	02/09/97	<0.5	<0.5	<0.5	<0.5
MW-87	05/06/97	<0.5	<0.5	<0.5	<0.5
MW-87	10/16/97	<0.5	<0.5	<0.5	<0.5
MW-87	01/29/98	<0.5	<0.5	<0.5	<0.5
MW-87	04/28/98	<0.5	<0.5	<0.5	<0.5
MW-87	06/27/98	<1	<1	<1	<1
MW-87	10/12/98	<0.5	<0.5	<0.5	<0.5
MW-87	02/02/99	<0.5	<0.5	<0.5	<0.5
MW-87	04/20/99	<5	<5	<5	<10
MW-87	12/13/99	<5	<5	<5	<10
MW-87	05/01/00	<1	<1	<1	<1
MW-87	10/04/00	<5	<5	<5	<10
MW-87	04/19/01	<5	<5	<5	<10
MW-87	11/01/01	<5	<5	<5	<10
MW-87	04/23/02	<5	<5	<5	<5
MW-87	10/17/02	<5	<5	<5	<5
MW-87	04/08/03	<5	<5	<5	<5
MW-87	10/23/03	<5	<5	<5	<5
MW-87	04/21/05	<5	<5	<5	<15
MW-87	04/21/06	<2.57	<2.74	<2.03	<5.81
MW-87	04/19/07	<5	<5	<5	<15
MW-87A	10/01/96	<0.5	<0.5	<0.5	<0.5
MW-87A	02/09/97	0.9	<0.5	0.7	1.5
MW-87A	05/07/97	<0.5	<0.5	<0.5	<0.5
MW-87A	10/16/97	<0.5	<0.5	<0.5	<0.5
MW-87A	01/29/98	<0.5	<0.5	<0.5	<0.5
MW-87A	04/28/98	<0.5	<0.5	<0.5	<0.5
MW-87A	06/27/98	<1	<1	<1	<1
MW-87A	02/02/99	<0.5	<0.5	<0.5	<0.5
MW-87A	04/20/99	<5	<5	<5	<10
MW-87A	12/13/99	<5	<5	<5	<10
MW-87A	05/01/00	<1	<1	<1	<1
MW-87A	10/03/00	<5	<5	<5	<10
MW-87A	04/19/01	<5	<5	<5	<10
MW-87A	11/01/01	<5	<5	<5	<10
MW-87A	04/23/02	<5	<5	<5	<5
MW-87A	10/17/02	<5	<5	<5	<5
MW-87A	04/08/03	<5	<5	<5	<5
MW-87A	10/23/03	<5	<5	<5	<5
MW-87A	04/07/04	<5	<5	<5	<5
MW-87A	04/26/05	<5	<5	<5	<15
MW-87A	04/21/06	<2.57	<2.74	<2.03	<5.81
MW-87A	04/19/07	<5	<5	<5	<15
MW-88	08/01/96	<0.5	1.1	0.5	1
MW-88	10/01/96	<0.5	<0.5	<0.5	<0.5
MW-88	02/05/97	<0.5	<0.5	<0.5	<0.5

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Well ID	Sample Date	Analytical Results			
		Benzene	Toluene	Ethylbenzene	Total Xylenes
MW-88	04/30/97	<0.5	<0.5	<0.5	<0.5
MW-88	10/15/97	<0.5	<0.5	<0.5	<0.5
MW-88	01/29/98	<0.5	<0.5	<0.5	<0.5
MW-88	04/28/98	<0.5	<0.5	<0.5	<0.5
MW-88	06/27/98	<1	<1	<1	<1
MW-88	10/11/98	<0.5	<0.5	<0.5	<0.5
MW-88	02/01/99	1.6	1.8	1.6	4.8
MW-88	04/21/99	<5	<5	<5	<10
MW-88	12/10/99	<5	<5	<5	<10
MW-88	04/28/00	<1	<1	<1	<1
MW-88	10/02/00	<5	<5	<5	<5
MW-88	04/17/01	<5	<5	<5	<15
MW-88	10/31/01	<5	<5	<5	<10
MW-88	04/19/02	<5	<5	<5	<5
MW-88	10/16/02	<5	<5	<5	<5
MW-88	04/08/03	<5	<5	<5	<5
MW-88	10/21/03	<5	<5	<5	<5
MW-88	04/06/04	<5	<5	<5	<5
MW-88	04/21/05	<5	<5	<5	<15
MW-88	04/20/06	<2.57	<2.74	<2.03	<5.81
MW-88	04/19/07	<5	<5	<5	<15
MW-88	05/27/09	<1	<1	<1	<1
MW-89	08/01/96	<0.5	1.1	<0.5	<0.5
MW-89	10/01/96	<0.5	<0.5	<0.5	<0.5
MW-89	02/05/97	<0.5	<0.5	<0.5	<0.5
MW-89	04/30/97	<0.5	<0.5	<0.5	<0.5
MW-89	10/15/97	<0.5	<0.5	<0.5	<0.5
MW-89	01/29/98	<0.5	<0.5	<0.5	<0.5
MW-89	04/28/98	<0.5	<0.5	<0.5	<0.5
MW-89	06/17/98	<1	<1	<1	<1
MW-89	02/01/99	11	1.3	<0.5	<0.5
MW-89	04/21/99	<5	<5	<5	<10
MW-89	12/10/99	<5	<5	<5	<10
MW-89	04/27/00	<1	<1	<1	<1
MW-89	10/05/00	<5	<5	<5	<10
MW-89	04/18/01	<5	<5	<5	<10
MW-89	11/02/01	<5	<5	<5	<10
MW-89	04/19/02	<5	<5	<5	<5
MW-89	10/16/02	<5	<5	<5	<5
MW-89	04/07/03	<5	<5	<5	<5
MW-89	10/22/03	<5	<5	<5	<5
MW-89	04/06/04	<5	<5	<5	<5
MW-89	04/21/05	<5	<5	<5	<15
MW-89	04/19/06	<2.57	<2.74	<2.03	<5.81
MW-89	04/18/07	<5	<5	<5	<15
MW-90	02/10/97	17	0.5	15	1.4
MW-90	05/07/97	1.1	0.5	0.5	<0.5
MW-90	07/17/97	<0.5	<0.5	<0.5	<0.5
MW-90	04/29/98	<0.5	<0.5	<0.5	<0.5
MW-90	06/17/98	<1	<1	<1	<1
MW-90	04/23/99	<5	<5	<5	<10

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Well ID	Sample Date	Analytical Results			
		Benzene	Toluene	Ethylbenzene	Total Xylenes
MW-90	12/09/99	<5	<5	<5	<10
MW-90	05/02/00	<1	<1	<1	<1
MW-90	10/03/00	<5	<5	<5	<10
MW-90	04/24/01	82	9.3	65	140
MW-90	11/01/01	<5	<5	<5	<10
MW-90	04/18/02	<5	<5	<5	<5
MW-90	10/17/02	<5	<5	<5	<5
MW-90	04/06/03	<5	<5	<5	<5
MW-90	10/23/03	<5	<5	<5	<5
MW-90	04/13/04	<5	<5	<5	<5
MW-90	04/21/05	<5	<5	<5	<15
MW-90	04/26/06	<2.57	<2.74	<2.03	<5.81
MW-90	04/19/07	<5	<5	<5	<15
MW-91	02/11/97	340	14	50	55
MW-91	04/30/98	17	32	19	200
MW-91	04/23/99	19	<5	8	<10
MW-91	12/09/99	140	15	5.2	19
MW-91	10/03/00	<5	6.7	<5	35
MW-91	04/20/01	40.6	16.4	<5	<10
MW-91	11/01/01	<200	<200	<200	<500
MW-91	04/18/02	36	<5	<5	<5
MW-91	10/18/02	16	<5	5	<5
MW-91	04/06/03	59	<5	5	<5
MW-91	10/23/03	<5	<5	<5	<5
MW-91	04/13/04	20	<5	<5	<5
MW-91	04/25/05	<5	<5	<5	<15
MW-91		Not Sampled - Dry			
MW-91	04/19/07	<5	<5	<5	<15
MW-94	10/17/97	<0.5	<0.5	<0.5	<0.5
MW-94	06/26/98	<1	<1	<1	<1
MW-94	04/22/99	<5	<5	<5	<10
MW-94	05/03/00	<1	<1	<1	<1
MW-94	10/05/00	<5	<5	<5	<10
MW-94	04/24/01	<5	<5	<5	<15
MW-94	04/24/02	<5	<5	<5	<5
MW-94	04/07/03	<5	<5	<5	<5
MW-94	04/09/04	<5	<5	<5	<5
MW-94	04/26/05	<5	<5	<5	<15
MW-94	04/21/06	<2.57	<2.74	<2.03	<5.81
MW-94	04/23/07	<5	<5	<5	<15
MW-95	04/30/97	<0.5	<0.5	<0.5	<0.5
MW-95	01/30/98	<0.5	<0.5	<0.5	<0.5
MW-95	06/22/98	<1	<1	<1	<1
MW-95	04/22/99	<5	<5	<5	<10
MW-95	12/14/99	<5	<5	<5	<10
MW-95	05/02/00	<1	<1	<1	<1
MW-95	04/24/01	<5	<5	<5	<15
MW-95	11/06/01	<5	<5	<5	<10
MW-95	04/23/02	<5	<5	<5	<5
MW-95	10/17/02	<5	<5	<5	<5
MW-95	04/09/03	<5	<5	<5	<5

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		Benzene	Toluene	Ethylbenzene	Total Xylenes
MW-95	10/23/03	<5	<5	<5	<5
MW-95	04/12/04	<5	<5	<5	<5
MW-95	04/20/05	<5	<5	<5	<15
MW-95	04/19/06	<2.57	<2.74	<2.03	<5.81
MW-95	04/23/07	<5	<5	<5	<15
MW-96	04/30/97	<0.5	<0.5	<0.5	<0.5
MW-96	10/16/97	<0.5	<0.5	<0.5	<0.5
MW-96	01/30/98	<0.5	<0.5	<0.5	<0.5
MW-96	04/28/98	<0.5	<0.5	<0.5	<0.5
MW-96	07/01/98	<1	<1	<1	<1
MW-96	10/12/98	<0.5	<0.5	<0.5	<0.5
MW-96	02/02/99	<0.5	<0.5	<0.5	<0.5
MW-96	04/22/99	<5	<5	<5	<10
MW-96	12/14/99	<5	<5	<5	<10
MW-96	05/01/00	<1	<1	<1	<1
MW-96	10/04/00	<5	<5	<5	<10
MW-96	04/19/01	<5	<5	<5	<10
MW-96	11/01/01	<5	<5	<5	<10
MW-96	04/22/02	<5	<5	<5	<5
MW-96	10/17/02	<5	<5	<5	<5
MW-96	04/10/03	<5	<5	<5	<5
MW-96	10/22/03	<5	<5	<5	<5
MW-96	04/06/04	<5	<5	<5	<5
MW-96	04/20/05	<5	<5	<5	<15
MW-96	04/20/06	<2.57	<2.74	<2.03	<5.81
MW-96	04/24/07	<5	<5	<5	<15
MW-97	04/30/97	<0.5	<0.5	<0.5	<0.5
MW-97	10/17/97	<0.5	<0.5	<0.5	<0.5
MW-97	01/30/98	<0.5	<0.5	<0.5	<0.5
MW-97	04/28/98	<0.5	<0.5	<0.5	<0.5
MW-97	07/01/98	<1	<1	<1	<1
MW-97	10/12/98	<2.5	<2.5	<2.5	<2.5
MW-97	02/02/99	<0.5	<0.5	<0.5	<0.5
MW-97	04/22/99	<5	<5	<5	<10
MW-97	12/14/99	<5	<5	<5	<10
MW-97	05/02/00	<1	<1	<1	<1
MW-97	10/04/00	<5	<5	<5	<10
MW-97	04/19/01	<5	<5	<5	<10
MW-97	11/01/01	<5	<5	<5	<10
MW-97	04/22/02	<5	<5	<5	<5
MW-97	10/17/02	<5	<5	<5	<5
MW-97	04/09/03	<5	<5	<5	<5
MW-97	10/21/03	<5	<5	<5	<5
MW-97	04/06/04	<5	<5	<5	<5
MW-97	04/20/05	<5	<5	<5	<15
MW-97	04/19/06	<2.57	<2.74	<2.03	<5.81
MW-97	04/24/07	<5	<5	<5	<15
MW-98	04/30/97	5.8	3.5	1.5	26
MW-98	06/29/98	<1	7.1	20	1010
MW-98	12/15/99	<5	13.2	<5	63.1
MW-98	05/02/00	<1	<1	<1	3.1

Notes:

Concentrations listed in micrograms per liter (ug/L)

<5 Constituent not detected above noted laboratory detection limit

-- Indicates parameter was not analyzed

Historical BTEX Analytical Data, May 1991 - May 2009
Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico

Well ID	Sample Date	Analytical Results			
		Benzene	Toluene	Ethylbenzene	Total Xylenes
MW-98	04/24/01	32	<5	49	116
MW-98	11/06/01	<5	<5	<5	<10
MW-98	04/23/02	<5	<5	<5	<5
MW-98	10/17/02	<5	<5	<5	<5
MW-98	04/09/03	<5	<5	<5	<5
MW-98	10/23/03	<5	<5	<5	<5
MW-98	04/12/04	<5	<5	<5	<5
MW-98	04/20/05	<5	<5	<5	<15
MW-98	04/19/06	<2.57	<2.74	<2.03	<5.81
MW-98	04/23/07	<5	<5	<5	<15
MW-104	07/17/97	<0.5	0.5	<0.5	0.7
MW-104	07/01/98	<1	<1	<1	<1
MW-104	04/23/01	<5	<5	<5	<15
MW-104	11/05/01	<5	<5	<5	<10
MW-104	04/22/02	<5	<5	<5	<5
MW-104	10/21/02	<5	<5	<5	<5
MW-104	04/11/03	<5	<5	<5	<5
MW-104	10/22/03	<5	<5	<5	<5
MW-104	04/07/04	<5	<5	<5	<5
MW-104	04/20/05	<5	<5	<5	<15
MW-104	04/24/06	<2.57	<2.74	<2.03	<5.81
MW-104	04/23/07	<5	<5	<5	<15
MW-105	06/28/98	<1	<1	<1	<1
MW-105	12/09/99	<5	<5	<5	<10
MW-105	10/02/00	<5	<5	<5	<10
MW-105	04/18/01	<5	<5	<5	<15
MW-105		Not Sampled - Dry			
MW-105		Not Sampled - Dry			
MW-105		Not Sampled - Dry			
MW-105		Not Sampled - Dry			
MW-105		Not Sampled - Dry			
MW-105		Not Sampled - Dry			
MW-105		Not Sampled - Dry			
MW-106	02/11/97	<0.5	<0.5	<0.5	<0.5
MW-106	05/07/97	<0.5	<0.5	<0.5	<0.5
MW-106	07/18/97	<0.5	<0.5	<0.5	<0.5
MW-106	04/30/98	<0.5	<0.5	<0.5	<0.5
MW-106	06/28/98	<1	<1	<1	<1
MW-106	04/29/99	<5	<5	<5	<10
MW-106	12/08/99	<5	<5	<5	<10
MW-106	05/01/00	<1	<1	<1	<1
MW-106	10/02/00	<5	<5	<5	<10
MW-106	04/18/01	<5	9.4	<5	<15
MW-106	10/31/01	<5	<5	<5	<10
MW-106	04/17/02	<5	<5	<5	<5
MW-106	10/16/02	<5	7	<5	<5
MW-106	04/09/03	<5	<5	<5	<5
MW-106	10/21/03	<5	<5	<5	<5
MW-106	04/05/04	<5	<5	<5	<5
MW-106	04/20/05	<5	<5	<5	<15
MW-106	04/19/06	<2.57	<2.74	<2.03	<5.81

Notes:

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Historical BTEX Analytical Data, May 1991 - May 2009
Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico

Well ID	Sample Date	Analytical Results			
		Benzene	Toluene	Ethylbenzene	Total Xylenes
MW-106	04/18/07	<5	<5	<5	<15
MW-108	07/17/97	<0.5	<0.5	0.5	<0.5
MW-108	06/22/98	<1	<1	<1	<1
MW-108	04/22/99	<5	<5	<5	<10
MW-108	12/14/99	<5	<5	<5	<10
MW-108	05/04/00	<1	<1	<1	<1
MW-108	04/19/01	<5	<5	<5	<10
MW-108	11/05/01	<5	<5	<5	<10
MW-108	04/22/02	<5	<5	<5	<5
MW-108	10/17/02	<5	<5	<5	<5
MW-108	04/11/03	<5	<5	<5	<5
MW-108	10/22/03	<5	<5	<5	<5
MW-108	04/06/04	<5	<5	<5	<5
MW-108	04/20/05	<5	<5	<5	<15
MW-108	04/20/06	<2.57	<2.74	<2.03	<5.81
MW-108	04/24/07	<5	<5	<5	<15
MW-110	06/30/98	170	<10	150	160
MW-111	06/29/98	<1	<1	<1	<1
MW-111	10/11/98	<0.5	<0.5	<0.5	<0.5
MW-111	02/01/99	<0.5	0.8	<0.5	<0.5
MW-111	04/21/99	<5	<5	<5	<10
MW-111	12/13/99	<5	<5	<5	<10
MW-111	04/27/00	<1	<1	<1	<1
MW-111	10/05/00	<5	<5	<5	<10
MW-111	04/18/01	<5	<5	<5	<15
MW-111	11/02/01	<5	<5	<5	<10
MW-111	04/19/02	<5	<5	<5	<5
MW-111	10/16/02	<5	<5	<5	<5
MW-111	04/07/03	<5	<5	<5	6
MW-111	10/22/03	<5	<5	<5	<5
MW-111	04/07/04	<5	<5	<5	5
MW-111	04/21/05	<5	<5	<5	<15
MW-111	04/19/06	<2.57	<2.74	<2.03	<5.81
MW-111	04/18/07	<5	<5	<5	<15
MW-111	05/27/09	<1	<1	<1	<1
MW-113	08/11/99	140	<5	59	390
MW-114	07/26/99	<5	<5	<5	<10
MW-115	07/26/99	<5	<5	<5	10
MW-116	07/26/99	<5	<5	<5	<10
MW-117A	12/16/99	<5	<5	<5	<10
MW-118	12/15/99	<5	<5	<5	<10
MW-119	12/28/99	16	<5	<5	<10
MW-121	12/16/99	500	10	370	20
MW-122	12/16/99	11	29	<5	22
MW-124	12/14/99	79	<50	210	1500
MW-127	12/28/99	190	7.1	38	16
MW-127	05/28/09	<1	<1	<1	1.4
MW-128	12/28/99	11	<5	<5	<10
SUMP-16A	07/01/91	560	--	--	--
SUMP-16A	07/19/91	--	850	100	--
SUMP-16A	07/30/91	--	--	--	660

Notes:

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Historical BTEX Analytical Data, May 1991 - May 2009
Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico

Well ID	Sample Date	Analytical Results			
		Benzene	Toluene	Ethylbenzene	Total Xylenes
SUMP-16A	09/01/91	240	--	--	--
SUMP-16A	12/01/91	2000	1000	<500	3500
SUMP-16A	04/01/92	1332	203	<3	3679
SUMP-16A	07/01/92	1495	2028	280	3442
SUMP-16A	10/01/92	632	87	<3	1821
SUMP-16A	01/01/93	741	40	96	1355
SUMP-16A	04/14/93	707	881	298	4226
SUMP-16A	10/05/94	170	<2.5	120	680
SUMP-16A	01/11/95	2	5.1	2.4	32
SUMP-16A	10/12/95	130	<13	98	780
SUMP-16A	04/19/96	0.8	1.5	3.8	27
SUMP-16A	07/01/96	5.1	0.9	1.2	7.7
SUMP-A10	10/12/95	<0.5	2.9	<0.5	<0.5
SW-01	05/28/91	--	--	--	<10
SW-01	07/01/91	<5	--	--	--
SW-01	07/19/91	--	<5	<5	--
SW-01	09/01/91	<1	--	--	--
SW-01	12/01/91	<1	--	--	--
SW-01	04/01/92	5	6	<3	14
SW-01	07/01/92	17.5	69	<3	67
SW-01	10/01/92	16	15	<3	10
SW-01	01/01/93	6	<3	<3	<3
SW-01	04/15/93	<1	<1	<1	<1
SW-01	05/12/93	<1	<1	<1	<1
SW-01	06/28/93	<0.5	<0.5	<0.5	<0.5
SW-01	07/15/93	<0.5	<0.5	<0.5	<0.5
SW-01	08/03/93	<0.5	<0.5	<0.5	<0.5
SW-01	09/21/93	<0.5	<0.5	1	0.6
SW-01	10/14/93	<0.5	<0.5	<0.5	<0.5
SW-01	11/10/93	<0.5	<0.5	<0.5	<0.5
SW-01	12/06/93	<0.5	<0.5	<0.5	<0.5
SW-01	01/12/94	<0.5	<0.5	<0.5	<0.5
SW-01	02/09/94	<0.5	<0.5	<0.5	<0.5
SW-01	03/16/94	<0.5	<0.5	<0.5	<0.5
SW-01	04/05/94	<0.5	<0.5	<0.5	<0.5
SW-01	05/19/94	<0.5	<0.5	<0.5	<0.5
SW-01	06/23/94	<0.5	<0.5	<0.5	<0.5
SW-01	07/21/94	<0.5	<0.5	<0.5	<0.5
SW-01	08/24/94	<0.5	<0.5	<0.5	<0.5
SW-01	09/20/94	<0.5	<0.5	0.8	2.2
SW-01	10/06/94	<0.5	<0.5	<0.5	0.6
SW-01	11/30/94	<0.5	<0.5	<0.5	<0.5
SW-01	12/16/94	<0.5	<0.5	0.7	4.8
SW-01	01/11/95	<0.5	<0.5	<0.5	<0.5
SW-01	03/09/95	<0.5	<0.5	<0.5	<0.5
SW-01	04/07/95	<0.5	<0.5	<0.5	<0.5
SW-01	05/18/95	<0.5	<0.5	<0.5	<0.5
SW-01	07/21/95	<0.5	<0.5	<0.5	<0.5
SW-01	10/12/95	<0.5	<0.5	0.6	1.2
SW-01	12/27/95	<0.5	<0.5	<0.5	<0.5
SW-01	01/19/96	0.8	4.5	1.5	8.7

Notes:

Concentrations listed in micrograms per liter (ug/L)

<5 Constituent not detected above noted laboratory detection limit

-- Indicates parameter was not analyzed

Historical BTEX Analytical Data, May 1991 - May 2009
Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico

Well ID	Sample Date	Analytical Results			
		Benzene	Toluene	Ethylbenzene	Total Xylenes
SW-01	03/18/96	<0.5	<0.5	<0.5	<0.5
SW-01	04/24/96	<0.5	<0.5	<0.5	<0.5
SW-01	07/01/96	<0.5	<0.5	<0.5	<0.5
SW-01	10/01/96	<0.5	<0.5	<0.5	<0.5
SW-01	02/10/97	<0.5	<0.5	<0.5	<0.5
SW-01	12/10/97	<0.1	<0.1	<0.1	<0.1
SW-01	06/30/98	<1	<1	<1	<1
SW-01	04/23/99	<5	<5	<5	<10
SW-01	04/25/05	<5	<5	<5	<15
SW-02	09/01/91	<1	--	--	--
SW-02	12/01/91	<1	--	--	--
SW-02	04/01/92	11	12	<3	5
SW-02	07/01/92	7	38	<1	24
SW-02	10/01/92	69	37	25	61
SW-02	01/01/93	47	6	7	9
SW-02	04/15/93	4	<1	<1	<1
SW-02	05/12/93	3	<1	<1	<1
SW-02	01/11/95	<0.5	<0.5	<0.5	<0.5
SW-02	06/24/98	<1	<1	<1	<1
SW-02	04/23/99	<5	<5	<5	<10
SW-03	07/01/96	<0.5	<0.5	<0.5	<0.5
SW-03	10/01/96	<0.5	<0.5	<0.5	<0.5
SW-03	06/24/98	<1	<1	<1	<1
SW-03	04/23/99	<5	<5	<5	<10
SW-03	04/25/05	<5	<5	<5	<15
TH-21A	07/01/91	1700	--	--	--
TH-21A	07/19/91	--	3400	1200	--
TH-21A	07/30/91	--	--	--	2200
TH-A11	07/01/91	1100	--	--	--
TH-A11	07/19/91	--	1600	1100	--
TH-A11	07/30/91	--	--	--	800
TH-A11	09/01/91	1400	--	--	--
TH-A11	12/01/91	2900	3500	300	4000
TH-A11	04/01/92	3465	3303	306	4158
TH-A11	07/01/92	1258	1710	423	3416
TH-A11	10/01/92	2742	2235	<3	3408
UIHS_ARROYO	05/28/91	--	--	--	<10
UIHS_ARROYO	07/01/91	<5	--	--	--
UIHS_ARROYO	07/19/91	--	<5	<5	--
UIHS_ARROYO	09/01/91	<1	--	--	--
UIHS_ARROYO	12/01/91	<1	--	--	--
UIHS_ARROYO	04/01/92	<1	<1	<1	<1
UIHS_ARROYO	07/01/92	<1	<1	<1	<1
UIHS_ARROYO	10/01/92	<1	<1	<1	<1
UIHS_ARROYO	01/01/93	<1	<1	<1	<1
UIHS_ARROYO	04/15/93	<1	<1	--	<1
UIHS_ARROYO	05/12/93	<1	<1	<1	<1
UIHS_ARROYO	06/28/93	<0.5	<0.5	<0.5	<0.5
UIHS_ARROYO	07/15/93	<0.5	<0.5	<0.5	<0.5
UIHS_ARROYO	08/03/93	<0.5	<0.5	<0.5	<0.5
UIHS_ARROYO	09/21/93	<0.5	<0.5	<0.5	<0.5

Notes:

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Historical BTEX Analytical Data, May 1991 - May 2009
Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico

Well ID	Sample Date	Analytical Results			
		Benzene	Toluene	Ethylbenzene	Total Xylenes
UIHS_ARROYO	10/14/93	<0.5	<0.5	<0.5	<0.5
UIHS_ARROYO	11/10/93	<0.5	<0.5	<0.5	<0.5
UIHS_ARROYO	12/06/93	<0.5	<0.5	<0.5	<0.5
UIHS_ARROYO	01/13/94	<0.5	<0.5	<0.5	<0.5
UIHS_ARROYO	02/09/94	<0.5	<0.5	<0.5	<0.5
UIHS_ARROYO	03/16/94	<0.5	<0.5	<0.5	<0.5
UIHS_ARROYO	04/05/94	<0.5	<0.5	<0.5	<0.5
UIHS_ARROYO	05/19/94	<0.5	<0.5	<0.5	<0.5
UIHS_ARROYO	06/23/94	<0.5	<0.5	<0.5	<0.5
UIHS_ARROYO	07/21/94	<0.5	<0.5	<0.5	<0.5
UIHS_ARROYO	08/24/94	<0.5	<0.5	<0.5	<0.5
UIHS_ARROYO	09/20/94	<0.5	<0.5	<0.5	<0.5
UIHS_ARROYO	10/06/94	<0.5	<0.5	<0.5	0.6
UIHS_ARROYO	11/30/94	<0.5	<0.5	<0.5	<0.5
UIHS_ARROYO	12/16/94	<0.5	<0.5	<0.5	<0.5
UIHS_ARROYO	01/11/95	<0.5	<0.5	<0.5	<0.5
UIHS_ARROYO	03/09/95	<0.5	<0.5	<0.5	<0.5
UIHS_ARROYO	04/07/95	<0.5	<0.5	<0.5	<0.5
UIHS_ARROYO	05/18/95	<0.5	<0.5	<0.5	<0.5
UIHS_ARROYO	07/21/95	<0.5	<0.5	<0.5	<0.5
UIHS_ARROYO	10/12/95	<0.5	<0.5	<0.5	1.2
UIHS_ARROYO	12/27/95	<0.5	<0.5	<0.5	<0.5
UIHS_ARROYO	01/19/96	<0.5	<0.5	<0.5	<0.5
UIHS_ARROYO	03/18/96	<0.5	<0.5	<0.5	<0.5
UIHS_ARROYO	04/24/96	<0.5	<0.5	<0.5	<0.5
UIHS_ARROYO	07/01/96	<0.5	<0.5	<0.5	<0.5
UIHS_ARROYO	10/01/96	<0.5	<0.5	<0.5	<0.5
UIHS_ARROYO	02/10/97	<0.5	<0.5	<0.5	<0.5
UIHS_ARROYO	06/26/98	<1	<1	<1	<1

Notes:

Concentrations listed in micrograms per liter (ug/L)

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Appendix B
Summary of Analytical Results for All Sampling Events
1991 through 2009
Wet Chemistry

Station or Well Name	Constituent	Wet Chemistry Analytical Data (mg/L)	
		Total Dissolved Solids (TDS)	Chloride
	New Mexico Standards	1000	250
Station or Well Name	Sample Collection Date		
BIEBBLE	7/1/1991	1000	14
BIEBBLE	4/1/1992	NA	13.5
BIEBBLE	7/1/1992	NA	7.8
BIEBBLE	10/1/1992	NA	10.1
BIEBBLE	1/1/1993	NA	10.6
BIEBBLE	4/15/1993	NA	11.4
BIEBBLE	7/15/1993	NA	13.3
BIEBBLE	10/14/1993	NA	10.4
BIEBBLE	1/13/1994	NA	11
BIEBBLE	4/5/1994	NA	10.5
BIEBBLE	7/21/1994	NA	15
BIEBBLE	10/6/1994	NA	13
BIEBBLE	1/11/1995	NA	8
BIEBBLE	4/7/1995	NA	10.8
BIEBBLE	7/21/1995	NA	10
BIEBBLE	10/12/1995	NA	13
BIEBBLE	1/19/1996	NA	9
BIEBBLE	4/17/1996	NA	10.5
BIEBBLE	7/1/1996	NA	11
BIEBBLE	10/1/1996	NA	11
BIEBBLE	2/10/1997	NA	10
IW-02	8/1/1996	370	NA
IW-02	8/22/1996	NA	7
LYMAN	7/1/1991	980	20
LYMAN	4/1/1992	NA	12.6
LYMAN	7/1/1992	NA	14.6
LYMAN	10/1/1992	NA	15.5
LYMAN	1/1/1993	NA	13.2
LYMAN	4/15/1993	NA	13
LYMAN	5/12/1993	NA	13
LYMAN	6/28/1993	NA	12.5
LYMAN	7/15/1993	NA	15
LYMAN	8/3/1993	NA	13.1
LYMAN	9/21/1993	NA	12.4
LYMAN	10/14/1993	NA	14.6
LYMAN	11/10/1993	NA	482
LYMAN	12/6/1993	NA	14
LYMAN	1/12/1994	NA	13
LYMAN	2/9/1994	NA	12.6
LYMAN	3/16/1994	NA	13
LYMAN	4/5/1994	NA	12.5
LYMAN	5/19/1994	NA	12.1
LYMAN	6/23/1994	NA	12
LYMAN	7/21/1994	NA	12
LYMAN	8/24/1994	NA	11.5
LYMAN	9/20/1994	NA	11
LYMAN	10/6/1994	NA	14
LYMAN	11/30/1994	NA	12.1
LYMAN	12/16/1994	NA	11.8
LYMAN	1/11/1995	NA	11
LYMAN	3/9/1995	NA	12
LYMAN	4/7/1995	NA	13
LYMAN	5/18/1995	NA	10
LYMAN	7/21/1995	NA	11
LYMAN	10/12/1995	NA	12
LYMAN	1/19/1996	NA	9
LYMAN	4/18/1996	NA	11.1
LYMAN	7/1/1996	NA	9
LYMAN	10/1/1996	NA	10
LYMAN	2/10/1997	NA	11

Appendix B
Summary of Analytical Results for All Sampling Events
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Wet Chemistry

	Constituent	Wet Chemistry Analytical Data (mg/L)	
		Total Dissolved Solids (TDS)	Chloride
	New Mexico Standards	1000	250
LYMAN	4/30/1998	NA	15
LYMAN	6/29/1998	1000	13
LYMAN	12/18/2000	NA	15
MW-001	4/1/1991	NA	2000
MW-001	5/1/1991	820	310
MW-001	12/1/1991	NA	152
MW-010	5/1/1991	1600	60
MW-010	9/1/1991	1440	NA
MW-010	12/1/1991	NA	323
MW-010	4/1/1992	NA	319
MW-010	7/1/1992	NA	240
MW-010	10/1/1992	NA	312
MW-010	1/1/1994	NA	0
MW-010	2/11/1997	NA	120
MW-011	12/1/1991	NA	790
MW-011	4/1/1992	NA	653
MW-011	7/1/1992	NA	270
MW-011	10/1/1992	NA	239
MW-011	1/1/1993	NA	544
MW-011	10/5/1994	NA	130
MW-011	7/21/1995	NA	260
MW-011	1/20/1996	NA	120
MW-011	4/19/1996	NA	120
MW-011	7/1/1996	NA	37
MW-011	10/1/1996	NA	16
MW-011	2/7/1997	NA	46
MW-013	9/1/1991	2790	NA
MW-013	12/1/1991	NA	780
MW-013	4/1/1992	NA	1240
MW-013	7/1/1992	NA	269
MW-013	10/1/1996	NA	45
MW-013	2/7/1997	NA	70
MW-013	3/21/1997	770	NA
MW-013	6/21/1998	1000	230
MW-014	6/22/1998	1400	330
MW-014	4/18/2002	1200	300
MW-014	10/24/2003	1100	150
MW-014 (Dup 1)	10/24/2003	1000	140
MW-014	4/25/2005	1130	230
MW-014 (Dup 1)	4/25/2005	1100	232
MW-014	4/27/2006	1110	209
MW-014 (Dup 1)	4/27/2006	1110	207
MW-014	4/20/2007	1060	196
MW-014 (Dup 1)	4/20/2007	1010	194
MW-016	4/15/1993	NA	246
MW-017	4/15/1993	NA	306
MW-018	5/1/1991	1580	310
MW-018	4/1/1992	NA	464
MW-018	7/1/1992	NA	109
MW-018	10/1/1992	NA	408
MW-019	5/1/1991	1540	320
MW-019	5/22/1991	NA	NA
MW-019	7/1/1991	NA	466
MW-019	9/1/1991	1460	NA
MW-019	4/1/1992	NA	463
MW-019	7/1/1992	NA	90
MW-019	10/1/1992	NA	420
MW-019	10/1/1996	NA	96
MW-019	2/7/1997	NA	240
MW-021	5/1/1991	1220	230
MW-021	12/1/1991	NA	343
MW-021	4/15/1993	NA	283

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Wet Chemistry

	Constituent	Wet Chemistry Analytical Data (mg/L)	
		Total Dissolved Solids (TDS)	Chloride
	New Mexico Standards	1000	250
MW-024	7/1/1992	NA	455
MW-026	5/1/1991	1650	440
MW-026	12/1/1991	NA	356
MW-026	7/1/1992	NA	164
MW-026	10/1/1992	NA	222
MW-026	1/1/1993	NA	177
MW-031	7/1/1992	NA	337
MW-031	10/1/1992	NA	296
MW-037	6/1/1991	NA	52
MW-037	6/25/1991	NA	NA
MW-037	7/14/1993	NA	173
MW-038	5/1/1991	790	60
MW-038	6/1/1991	NA	38
MW-038	12/1/1991	NA	111
MW-038	4/1/1992	NA	127
MW-038	7/1/1992	NA	147
MW-038	10/1/1992	NA	128
MW-038	10/1/1996	NA	280
MW-038	2/7/1997	NA	310
MW-039	5/1/1991	NA	9.6
MW-039	6/1/1991	NA	244
MW-039	1/1/1993	NA	231
MW-039	4/15/1993	NA	83
MW-039	7/15/1993	NA	296
MW-039	10/14/1993	NA	277
MW-039	1/13/1994	NA	260
MW-039	4/7/1994	NA	220
MW-039	7/20/1994	NA	198
MW-039	1/10/1995	NA	194
MW-039	10/1/1996	NA	140
MW-039	2/7/1997	NA	160
MW-039	7/18/1997	NA	160
MW-041	6/1/1991	758	29
MW-041	7/1/1991	NA	38
MW-041	12/1/1991	NA	108
MW-041	7/15/1993	NA	242
MW-041	10/14/1993	NA	264
MW-041	1/13/1994	NA	370
MW-041	4/6/1994	NA	290
MW-041	7/20/1994	NA	259
MW-041	10/6/1994	NA	300
MW-041	1/11/1995	NA	326
MW-041	4/6/1995	NA	300
MW-041	7/21/1995	NA	270
MW-041	10/12/1995	NA	240
MW-041	1/20/1996	NA	270
MW-041	4/19/1996	NA	260
MW-041	7/1/1996	NA	250
MW-041	10/1/1996	NA	250
MW-041	2/7/1997	NA	180
MW-041	3/20/1997	1500	NA
MW-041	7/18/1997	NA	140
MW-041	6/19/1998	1200	120
MW-041	4/20/1999	810	56
MW-042	12/1/1991	NA	571
MW-043	6/1/1991	1300	138
MW-043	9/1/1991	1600	NA
MW-043	7/15/1993	NA	232
MW-043	10/14/1993	NA	230
MW-043	1/13/1994	NA	260
MW-043	4/6/1994	NA	250
MW-043	7/20/1994	NA	266

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	Constituent	Wet Chemistry Analytical Data (mg/L)	
		Total Dissolved Solids (TDS)	Chloride
	New Mexico Standards	1000	250
MW-043	10/6/1994	NA	270
MW-043	1/11/1995	NA	280
MW-043	4/6/1995	NA	280
MW-043	7/21/1995	NA	270
MW-043	10/12/1995	NA	220
MW-043	1/1/2006	NA	280
MW-043	4/19/1996	NA	280
MW-043	7/1/1996	NA	270
MW-043	10/1/1996	NA	380
MW-043	2/7/1997	NA	330
MW-043	7/18/1997	NA	230
MW-043	6/22/1998	1500	210
MW-043	4/20/1999	1100	130
MW-043	4/28/2000	827	68.9
MW-043	4/19/2001	730	79
MW-043	4/17/2002	640	51
MW-043	10/28/2003	1300	140
MW-043	4/10/2004	3600	160
MW-043	4/25/2005	2440	157
MW-043	4/26/2006	1870	173
MW-044	6/1/1991	641	33
MW-044	4/1/1992	NA	660
MW-044	7/1/1992	NA	263
MW-044	10/1/1992	NA	356
MW-044	1/1/1993	NA	300
MW-044	4/15/1993	NA	365
MW-044	7/15/1993	NA	445
MW-044	10/14/1993	NA	543
MW-044	1/13/1994	NA	490
MW-044	4/6/1994	NA	440
MW-044	7/20/1994	NA	430
MW-044	10/5/1994	NA	360
MW-044	1/11/1995	NA	360
MW-044	4/6/1995	NA	410
MW-044	7/21/1995	NA	400
MW-044	10/12/1995	NA	520
MW-044	1/20/1996	NA	580
MW-044	4/19/1996	NA	530
MW-044	7/1/1996	NA	480
MW-044	10/1/1996	NA	32
MW-044	2/7/1997	NA	180
MW-044	7/18/1997	NA	310
MW-044	6/22/1998	1000	260
MW-044	4/20/1999	910	94
MW-045	6/1/1991	5440	507
MW-045	9/1/1991	3920	NA
MW-045	12/1/1991	NA	354
MW-045	7/15/1993	NA	434
MW-045	10/14/1993	NA	408
MW-045	1/13/1994	NA	440
MW-045	4/6/1994	NA	430
MW-045	7/20/1994	NA	429
MW-045	5/29/2009	2540	174
MW-046	6/1/1991	1220	152
MW-046	7/1/1991	NA	45
MW-046	10/1/1996	NA	170
MW-046	2/11/1997	NA	220
MW-046	5/29/1997	1300	132
MW-046	7/18/1997	NA	180
MW-046	6/21/1998	940	140
MW-046	4/20/1999	580	31
MW-046	4/28/2000	565	25.8

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	Constituent	Wet Chemistry Analytical Data (mg/L)	
		Total Dissolved Solids (TDS)	Chloride
	New Mexico Standards	1000	250
MW-046	4/19/2001	570	47
MW-046	4/17/2002	490	37
MW-046	4/8/2004	2300	340
MW-046	4/27/2005	1090	116
MW-046	4/23/2007	1770	132
MW-047	6/1/1991	652	51
MW-047	12/1/1991	NA	433
MW-047	10/1/1996	NA	700
MW-048	12/1/1991	NA	400
MW-048	7/1/1992	NA	431
MW-048	10/1/1996	NA	200
MW-049	6/1/1991	3910	365
MW-049	6/25/1991	NA	NA
MW-049	7/15/1993	NA	399
MW-049	10/14/1993	NA	397
MW-049	1/13/1994	NA	400
MW-049	4/6/1994	NA	380
MW-049	7/20/1994	NA	368
MW-049	10/5/1994	NA	380
MW-049	1/11/1995	NA	389
MW-049	4/6/1995	NA	390
MW-049	7/21/1995	NA	380
MW-049	10/12/1995	NA	350
MW-049	1/20/1996	NA	410
MW-049	4/19/1996	NA	400
MW-049	7/1/1996	NA	360
MW-049	10/1/1996	NA	36
MW-049	2/7/1997	NA	410
MW-049	3/20/1997	3100	NA
MW-049	7/18/1997	NA	350
MW-049	6/21/1998	2800	630
MW-049	4/20/1999	3000	410
MW-049	4/27/2000	3320	379
MW-049	4/17/2001	3100	350
MW-049	4/17/2002	2600	450
MW-049	10/28/2003	2900	570
MW-049	4/9/2004	2900	440
MW-049 (Dup-1)	4/9/2004	3000	410
MW-049	4/25/2005	3960	345
MW-049	4/26/2006	3400	318
MW-049	4/20/2007	2990	325
MW-049	5/28/2009	3090	370
MW-050	6/1/1991	6070	388
MW-050	12/1/1991	NA	380
MW-050	4/1/1992	NA	397
MW-050	7/1/1992	NA	379
MW-050	10/1/1992	NA	370
MW-050	1/1/1993	NA	337
MW-050	4/15/1993	NA	955
MW-050	7/15/1993	NA	347
MW-050	10/14/1993	NA	292
MW-050	1/13/1994	NA	320
MW-050	4/6/1994	NA	290
MW-050	7/20/1994	NA	290
MW-050	10/5/1994	NA	290
MW-050	1/11/1995	NA	314
MW-050	4/6/1995	NA	320
MW-050	7/21/1995	NA	310
MW-050	10/12/1995	NA	240
MW-050	1/20/1996	NA	290
MW-050	4/19/1996	NA	330
MW-050	7/1/1996	NA	310

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	Constituent	Wet Chemistry Analytical Data (mg/L)	
		Total Dissolved Solids (TDS)	Chloride
	New Mexico Standards	1000	250
MW-050	10/1/1996	NA	360
MW-050	2/7/1997	NA	360
MW-050	3/20/1997	5900	NA
MW-050	7/18/1997	NA	330
MW-050	6/19/1998	5900	340
MW-050	4/20/1999	6200	360
MW-050	4/27/2000	6510	345
MW-050	4/17/2001	6200	350
MW-050	4/17/2002	6900	360
MW-050	10/22/2003	6300	300
MW-050	4/10/2004	5900	330
MW-050	4/27/2005	6900	312
MW-050	4/27/2006	6070	281
MW-051	12/1/1991	NA	38
MW-052	7/1/1992	NA	3
MW-054	12/1/1991	NA	87
MW-054	4/1/1992	NA	151
MW-054	7/1/1992	NA	80
MW-054	10/1/1992	NA	55
MW-054	1/1/1993	NA	134
MW-054	4/14/1993	NA	145
MW-054	7/14/1993	NA	146
MW-054	10/14/1993	NA	122
MW-054	1/12/1994	NA	140
MW-054	4/6/1994	NA	102
MW-054	7/20/1994	NA	135
MW-054	10/5/1994	NA	130
MW-054	1/10/1995	NA	32
MW-054	4/6/1995	NA	102
MW-054	7/21/1995	NA	95
MW-054	10/11/1995	NA	110
MW-054	1/20/1996	NA	120
MW-054	4/18/1996	NA	140
MW-054	7/1/1996	NA	110
MW-054	10/1/1996	NA	110
MW-054	2/10/1997	NA	180
MW-054	7/16/1997	NA	160
MW-054	6/25/1998	2200	110
MW-054	4/22/1999	3400	180
MW-054	5/2/2000	3230	138
MW-054	4/23/2001	4500	190
MW-054	4/18/2002	4500	180
MW-054	10/27/2003	4900	180
MW-054	4/9/2004	5000	200
MW-054	4/27/2005	4470	187
MW-054	4/26/2006	4660	182
MW-055	6/1/1991	NA	200
MW-055	12/1/1991	NA	501
MW-055	4/1/1992	NA	385
MW-055	7/1/1992	NA	273
MW-055	10/1/1992	NA	292
MW-055	1/1/1993	NA	300
MW-055	4/14/1993	NA	301
MW-055	7/14/1993	NA	312
MW-055	10/14/1993	NA	287
MW-055	1/12/1994	NA	320
MW-055	4/8/1994	NA	310
MW-055	7/20/1994	NA	299
MW-055	10/5/1994	NA	390
MW-055	1/11/1995	NA	321
MW-055	4/11/1995	NA	320
MW-055	7/20/1995	NA	300

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	Constituent	Wet Chemistry Analytical Data (mg/L)	
		Total Dissolved Solids (TDS)	Chloride
	New Mexico Standards	1000	250
MW-055	10/11/1995	NA	250
MW-055	1/19/1996	NA	370
MW-055	4/18/1996	NA	310
MW-055	7/1/1996	NA	350
MW-055	10/1/1996	NA	210
MW-055	2/10/1997	NA	270
MW-055	7/16/1997	NA	300
MW-055	6/25/1998	1500	300
MW-055	7/16/1997	1000	160
MW-055	5/2/2000	1020	138
MW-055	4/24/2001	920	130
MW-055	4/24/2002	720	79
MW-055	10/24/2003	1300	190
MW-055	4/9/2004	1500	220
MW-055	4/27/2005	1220	187
MW-055	4/26/2006	1220	165
MW-056	6/1/1991	NA	100
MW-056	7/1/1991	NA	102
MW-056	9/1/1991	1220	NA
MW-056	12/1/1991	NA	197
MW-056	7/1/1992	NA	248
MW-056	10/1/1992	NA	183
MW-056	1/1/1993	NA	269
MW-056	10/1/1996	NA	270
MW-056	2/11/1997	NA	170
MW-056	3/20/1997	1200	NA
MW-057	6/1/1991	NA	15.2
MW-057	7/1/1991	460	21
MW-057	12/1/1991	NA	32
MW-057	4/1/1992	NA	117
MW-057	7/1/1992	NA	63
MW-057	10/1/1992	NA	67
MW-057	1/1/1993	NA	131
MW-057	4/14/1993	NA	80
MW-057	7/14/1993	NA	72
MW-057	10/13/1993	NA	73.6
MW-057	1/12/1994	NA	64
MW-057	4/7/1994	NA	58
MW-057	7/19/1994	NA	48
MW-057	10/5/1994	NA	60
MW-057	1/11/1995	NA	35
MW-057	4/8/1995	NA	31
MW-057	7/20/1995	NA	37
MW-057	10/11/1995	NA	47
MW-057	1/19/1996	NA	44
MW-057	4/18/1996	NA	44
MW-057	7/1/1996	NA	30
MW-057	10/1/1996	NA	30
MW-057	2/10/1997	NA	32
MW-057	7/15/1997	NA	36
MW-057	6/25/1998	490	50
MW-057	4/20/1999	500	44
MW-057	5/4/2000	515	43.1
MW-057	4/24/2001	520	48
MW-057	4/22/2002	540	45
MW-057	10/28/2003	430	37
MW-057	4/8/2004	620	34
MW-057	4/26/2005	409	31
MW-057	4/25/2006	386	28.3
MW-058	12/1/1991	NA	124
MW-058	4/1/1992	NA	156
MW-058	7/1/1992	NA	149

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	Constituent	Wet Chemistry Analytical Data (mg/L)	
		Total Dissolved Solids (TDS)	Chloride
	New Mexico Standards	1000	250
MW-058	10/1/1992	NA	155
MW-058	1/1/1993	NA	175
MW-058	4/13/1993	NA	133
MW-058	7/13/1993	NA	133
MW-058	10/13/1993	NA	59
MW-058	4/5/1994	NA	48
MW-058	7/19/1994	NA	38
MW-058	10/6/1994	NA	36
MW-058	1/11/1995	NA	26
MW-058	4/8/1995	NA	39
MW-058	4/18/1996	NA	29
MW-058	10/1/1996	NA	38
MW-058	6/22/1998	760	42
MW-058	12/1/1991	NA	124
MW-058	4/1/1992	NA	156
MW-058	7/1/1992	NA	149
MW-058	10/1/1992	NA	155
MW-058	1/1/1993	NA	175
MW-058	4/13/1993	NA	133
MW-058	7/13/1993	NA	133
MW-058	10/13/1993	NA	59
MW-058	4/5/1994	NA	48
MW-058	7/19/1994	NA	38
MW-058	10/6/1994	NA	36
MW-058	1/11/1995	NA	26
MW-058	4/8/1995	NA	39
MW-058	4/18/1996	NA	29
MW-058	10/1/1996	NA	38
MW-058	6/22/1998	760	42
MW-059	12/1/1991	NA	149
MW-059	4/1/1992	NA	52
MW-059	7/1/1992	NA	55
MW-059	10/1/1992	NA	69
MW-059	1/1/1993	NA	46
MW-059	4/13/1993	NA	29
MW-059	10/13/1993		56
MW-059	4/5/1994		30
MW-059	7/19/1994		< 5
MW-059	10/6/1994		25
MW-059	1/11/1995		12
MW-059	2/9/1997		29
MW-059	6/24/1998	4100	560
MW-059	5/4/2000	3300	196
MW-059	4/19/2001	2400	210
MW-059	4/23/2002	5800	470
MW-059	10/24/2003	6000	420
MW-059 (Dup-2)	10/24/2003	6100	420
MW-059	4/8/2004	6200	560
MW-059 (Dup-2)	4/8/2004	6200	530
MW-059	4/21/2005	2180	54.1
MW-059 (Dup-2)	4/21/2005	2180	52.8
MW-059	4/25/2006	1960	61.2
MW-059 (Dup-2)	4/25/2006	1980	59.8
MW-060	7/1/1991	860	13
MW-060	12/1/1991	NA	10
MW-060	4/1/1992	NA	10
MW-060	7/1/1992	NA	10
MW-060	10/1/1992	NA	14
MW-060	1/1/1993	NA	6
MW-060	4/14/1993	NA	9
MW-060	7/14/1993	NA	10.7
MW-060	10/13/1993	NA	13.5

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	Constituent	Wet Chemistry Analytical Data (mg/L)	
		Total Dissolved Solids (TDS)	Chloride
	New Mexico Standards	1000	250
MW-060	1/12/1994	NA	9.5
MW-060	4/7/1994	NA	9
MW-060	7/19/1994	NA	< 5
MW-060	10/5/1994	NA	9.1
MW-060	1/10/1995	NA	20
MW-060	4/7/1995	NA	8.8
MW-060	7/19/1995	NA	9
MW-060	10/11/1995	NA	9
MW-060	1/19/1996	NA	16
MW-060	4/18/1996	NA	12.7
MW-060	7/1/1996	NA	12
MW-060	10/1/1996	NA	12
MW-060	10/19/1996	NA	16
MW-060	2/9/1997	NA	9
MW-060	3/19/1997	760	NA
MW-060	5/6/1997	NA	10
MW-060	7/15/1997	NA	11
MW-060	6/21/1998	720	12
MW-060	5/1/2000	790	8.61
MW-060	4/19/2001	720	9.4
MW-060	4/23/2002	710	9.7
MW-060	10/23/2003	640	12
MW-060	4/8/2004	650	12
MW-060	4/26/2005	684	13.2
MW-060	4/21/2006	527	13.4
MW-061	12/1/1991	NA	413
MW-061	1/13/1994	NA	420
MW-061	4/7/1994	NA	450
MW-061	7/20/1994	NA	387
MW-061	10/4/1994	NA	400
MW-061	1/11/1995	NA	439
MW-061	4/11/1995	NA	420
MW-061	7/21/1995	NA	400
MW-061	10/10/1995	NA	300
MW-061	1/20/1996	NA	420
MW-061	4/18/1996	NA	450
MW-061	7/1/1996	NA	370
MW-061	10/1/1996	NA	420
MW-061	2/10/1997	NA	410
MW-061	7/17/1997	NA	390
MW-061	6/18/1998	3200	480
MW-061	4/20/1999	2900	370
MW-061	5/3/2000	3290	379
MW-061	4/23/2001	3100	430
MW-061	4/19/2002	3200	390
MW-061	10/22/2003	3300	440
MW-061	4/6/2004	3200	480
MW-061	4/21/2005	3520	377
MW-061	4/20/2006	3320	347
MW-061A	7/1/1991	805	16
MW-061A	9/1/1991	755	NA
MW-061A	12/1/1991	NA	12
MW-061A	4/1/1992	NA	12
MW-061A	7/1/1992	NA	12
MW-061A	10/1/1992	NA	13
MW-061A	1/1/1993	NA	12
MW-061A	4/13/1993	NA	15
MW-061A	4/5/1994	NA	10.7
MW-061A	7/19/1994	NA	8
MW-061A	10/4/1994	NA	11
MW-061A	1/10/1995	NA	32
MW-061A	1/20/1996	NA	9

Appendix B
Summary of Analytical Results for All Sampling Events
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Wet Chemistry

	Constituent	Wet Chemistry Analytical Data (mg/L)	
		Total Dissolved Solids (TDS)	Chloride
	New Mexico Standards	1000	250
MW-061A	4/19/1996	NA	10.2
MW-061A	7/1/1996	NA	7
MW-061A	2/6/1997	840	13
MW-061A	5/7/1997	NA	11
MW-061A	6/26/1997	NA	12
MW-061A	7/15/1997	NA	10
MW-061A	10/15/1997	NA	NA
MW-061A	6/18/1998	690	4
MW-061A	4/20/1999	730	11
MW-061A	5/3/2000	811	8.61
MW-061A	4/18/2001	720	9.5
MW-061A	4/19/2002	720	9.5
MW-061A	10/22/2003	730	10
MW-061A	4/6/2004	760	9.9
MW-061A	4/21/2005	875	11.4
MW-061A	4/20/2006	829	12.1
MW-062	9/1/1991	1120	NA
MW-062	12/1/1991	NA	247
MW-062	4/1/1992	NA	218
MW-062	7/1/1992	NA	236
MW-062	10/1/1992	NA	285
MW-062	1/1/1993	NA	202
MW-062	4/13/1993	NA	207
MW-062	7/14/1993	NA	459
MW-062	10/13/1993	NA	181
MW-062	1/11/1994	NA	160
MW-062	4/5/1994	NA	139
MW-062	7/19/1994	NA	129
MW-062	10/6/1994	NA	130
MW-062	1/11/1995	NA	152
MW-062	4/8/1995	NA	128
MW-062	2/11/1997	NA	150
MW-062	7/18/1997	NA	100
MW-062	6/26/1998	650	91
MW-062	4/21/1999	550	82
MW-062	5/3/2000	695	99.9
MW-062	4/20/2001	700	130
MW-062	4/22/2002	670	93
MW-062	10/27/2003	610	82
MW-062	4/8/2004	650	94
MW-062	4/21/2005	783	158
MW-062	4/25/2006	644	121
MW-063	12/1/1991	NA	8
MW-063	4/1/1992	NA	14
MW-063	7/1/1992	NA	7
MW-063	10/1/1992	NA	1
MW-063	1/1/1993	NA	3
MW-063	4/13/1993	NA	5.6
MW-063	7/13/1993	NA	3
MW-063	10/12/1993	NA	4
MW-063	1/11/1994	NA	5.7
MW-063	4/6/1994	NA	5.5
MW-063	7/18/1994	NA	< 5
MW-063	10/4/1994	NA	6.2
MW-063	1/9/1995	NA	9
MW-063	4/7/1995	NA	6.9
MW-063	7/18/1995	NA	7
MW-063	10/10/1995	NA	12
MW-063	1/18/1996	NA	10
MW-063	4/17/1996	NA	10.2
MW-063	7/1/1996	NA	10
MW-063	10/1/1996	NA	7

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Summary of Analytical Results for All Sampling Events
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Wet Chemistry

	Constituent	Wet Chemistry Analytical Data (mg/L)	
		Total Dissolved Solids (TDS)	Chloride
	New Mexico Standards	1000	250
MW-063	2/5/1997	NA	7
MW-063	7/15/1997	NA	9
MW-063	10/15/1997	NA	NA
MW-063	6/25/1998	370	10
MW-063	10/11/1998	NA	NA
MW-063	10/11/1998	340	15
MW-063	4/27/2000	395	10.3
MW-063	4/24/2001	370	12
MW-063	4/18/2002	320	14
MW-063	10/24/2003	370	8.2
MW-063	4/8/2004	360	7.6
MW-063	4/26/2005	320	6.65
MW-063	4/19/2006	318	7.22
MW-064	12/1/1991	NA	18
MW-064	4/1/1992	NA	13
MW-064	7/1/1992	NA	13
MW-064	10/1/1992	NA	12
MW-064	1/1/1993	NA	10.2
MW-064	4/13/1993	NA	10
MW-064	7/13/1993	NA	12
MW-064	10/13/1993	NA	8
MW-064	1/12/1994	NA	10
MW-064	4/6/1994	NA	10
MW-064	7/19/1994	NA	< 5
MW-064	10/5/1994	NA	10.2
MW-064	1/10/1995	NA	20
MW-064	4/7/1995	NA	12
MW-064	7/19/1995	NA	11
MW-064	10/11/1995	NA	12
MW-064	1/19/1996	NA	12
MW-064	4/18/1996	NA	11.6
MW-064	2/11/1997	NA	11
MW-064	7/16/1997	NA	12
MW-064	6/23/1998	600	15
MW-064	4/21/1999	530	11
MW-064	5/3/2000	611	13.8
MW-064	4/20/2001	540	13
MW-064	4/22/2002	520	14
MW-064	10/22/2003	580	13
MW-064	4/7/2004	540	13
MW-064	4/20/2005	665	14.3
MW-064	4/24/2006	560	14.5
MW-065	12/1/1991	NA	3
MW-065	7/15/1993	NA	4
MW-065	10/5/1994	NA	5.9
MW-065	7/1/1996	NA	5
MW-065	10/1/1996	NA	3
MW-065	2/11/1997	NA	1.3
MW-065	5/7/1997	NA	2
MW-065	4/7/2004	290	3.5
MW-065	4/26/2006	269	3.2
MW-065A	12/1/1991	NA	22
MW-065A	4/1/1992	NA	33
MW-065A	7/1/1992	NA	18
MW-065A	10/1/1992	NA	35
MW-065A	1/1/1993	NA	35
MW-065A	4/13/1993	NA	26
MW-065A	7/13/1993	NA	19
MW-065A	10/13/1993	NA	17
MW-065A	1/11/1994	NA	18
MW-065A	4/5/1994	NA	15
MW-065A	7/19/1994	NA	10

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	Constituent	Wet Chemistry Analytical Data (mg/L)	
		Total Dissolved Solids (TDS)	Chloride
	New Mexico Standards	1000	250
MW-065A	10/6/1994	NA	18
MW-065A	1/11/1995	NA	12
MW-065A	4/8/1995	NA	13
MW-065A	1/20/1996	NA	93
MW-065A	4/18/1996	NA	12.6
MW-065A	6/25/1998	550	24
MW-066	12/1/1991	NA	9
MW-066	4/1/1992	NA	8
MW-066	7/1/1991	NA	8
MW-066	10/1/1992	NA	8
MW-066	1/1/1993	NA	12
MW-066	4/13/1993	NA	8
MW-066	7/13/1993	NA	15
MW-066	10/12/1993	NA	7
MW-066	1/1/1994	NA	9
MW-066	4/7/1994	NA	8.7
MW-066	7/19/1994	NA	<5
MW-066	10/4/94	NA	8.8
MW-066	1/9/1995	NA	6
MW-066	4/11/1995	NA	8.9
MW-066	7/19/1995	NA	8
MW-066	10/10/1995	NA	9
MW-066	1/19/1996	NA	10
MW-066	4/17/1996	NA	9.6
MW-066	7/1/1996	NA	6
MW-066	10/1/1996	NA	7
MW-066	2/5/1997	NA	9
MW-066	5/6/1997	NA	9
MW-066	7/16/1997	NA	8
MW-066	10/15/1997	NA	NA
MW-066	6/17/1998	760	13
MW-066	4/21/1999	730	10
MW-066	4/27/2000	848	8.61
MW-066	4/18/2001	660	9.3
MW-066	4/19/2002	790	8.8
MW-066	10/22/2003	770	8.4
MW-066	4/6/2004	810	8.0
MW-066	4/21/2005	867	10.8
MW-066	4/19/2006	797	11.1
MW-066	4/18/2007	795	10.5
MW-066	5/27/2009	865	8.29
MW-067	12/1/1991	NA	7.00
MW-067	4/1/1992	NA	6.00
MW-067	7/1/1992	NA	3.00
MW-067	10/1/1992	NA	9.00
MW-067	1/1/1993	NA	4.00
MW-067	4/13/1993	NA	8.00
MW-067	7/13/1993	NA	6.00
MW-067	10/13/1993	NA	9.50
MW-067	1/12/1994	NA	8.60
MW-067	4/7/1994	NA	7.60
MW-067	7/19/1994	NA	<5
MW-067	10/5/1994	NA	7.90
MW-067	1/11/1995	NA	<5
MW-067	4/7/1995	NA	13.00
MW-067	7/21/1995	NA	6.00
MW-067	10/11/1995	NA	6.00
MW-067	1/19/1996	NA	11.00
MW-067	4/18/1996	NA	7.40
MW-067	7/1/1996	NA	7.00
MW-067	2/10/1997	NA	9.00
MW-067	7/16/1997	NA	7.00

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	Constituent	Wet Chemistry Analytical Data (mg/L)	
		Total Dissolved Solids (TDS)	Chloride
	New Mexico Standards	1000	250
MW-067	6/24/1998	480	11.00
MW-067	4/22/1999	460	6.80
MW-067	5/2/2000	537	8.61
MW-067	4/19/2001	470	6.5
MW-067	4/22/2002	420	5.7
MW-067	10/22/2003	400	4.7
MW-067	4/8/2004	430	5.4
MW-067	4/20/2005	430	7.14
MW-067	4/20/2006	459	7.46
MW-068	12/1/1991	NA	39
MW-068	4/1/1992	NA	82
MW-068	7/1/1992	NA	15
MW-068	10/1/1992	NA	30
MW-068	1/1/1993	NA	27
MW-068	4/13/1993	NA	27
MW-068	7/13/1993	NA	28
MW-068	10/13/1993	NA	27
MW-068	1/11/1994	NA	31
MW-068	4/5/1994	NA	30
MW-068	7/19/1994	NA	29
MW-068	10/6/1994	NA	32
MW-068	1/11/1995	NA	34
MW-068	6/26/1998	480	29
MW-069	12/1/1991	NA	154
MW-069	7/1/1992	NA	15
MW-069	10/1/1992	NA	43
MW-069	2/7/1997	NA	70
MW-069	7/18/1997	NA	64
MW-069	6/29/1998	860	120
MW-069	4/21/2005	645	22.5
MW-069	4/26/2006	669	28.6
MW-070	12/1/1991	NA	10
MW-070	4/1/1992	NA	8
MW-070	7/1/1992	NA	9.2
MW-070	10/1/1992	NA	17
MW-070	1/1/1993	NA	8
MW-070	4/14/1993	NA	8
MW-070	7/13/1993	NA	8
MW-070	10/12/1993	NA	11
MW-070	1/11/1994	NA	10
MW-070	4/6/1994	NA	9.5
MW-070	7/18/1994	NA	8
MW-070	10/4/1994	NA	9.5
MW-070	1/9/1995	NA	9
MW-070	4/5/1995	NA	9.7
MW-070	7/18/1995	NA	9
MW-070	10/10/1995	NA	10
MW-070	1/18/1996	NA	11
MW-070	4/17/1996	NA	9.7
MW-070	7/1/1996	NA	8
MW-070	10/1/1996	NA	10
MW-070	2/5/1997	NA	10
MW-070	10/15/1997	NA	NA
MW-070	6/16/1998	370	12
MW-070	4/22/1999	310	11
MW-070	4/27/2000	385	8.61
MW-070	4/24/2001	270	9.8
MW-070	4/18/2002	310	15
MW-070	10/23/2003	350	10
MW-070	4/12/2004	420	9.9
MW-070	4/26/2005	336	11.6
MW-070	4/20/2006	328	11.5

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	Constituent	Wet Chemistry Analytical Data (mg/L)	
		Total Dissolved Solids (TDS)	Chloride
	New Mexico Standards	1000	250
MW-070	4/24/2007	1150	21.9
MW-070	5/27/2009	508	10.2
MW-071	9/1/1993	NA	9
MW-071	10/12/1993	NA	15
MW-071	1/11/1994	NA	18
MW-071	4/6/1994	NA	17
MW-071	7/18/1994	NA	<5
MW-071	10/4/1994	NA	22
MW-071	1/10/1995	NA	<5
MW-071	6/23/1995	NA	16
MW-071	7/18/1995	NA	22
MW-071	10/10/1995	NA	21
MW-071	1/18/1996	NA	18
MW-071	4/17/1996	NA	23
MW-071	7/1/1996	NA	26
MW-071	10/1/1996	NA	30
MW-071	2/9/1997	NA	24
MW-071	5/6/1997	NA	17
MW-071	7/17/1997	NA	16
MW-071	6/19/1998	1100	4
MW-071	4/21/1999	1100	22
MW-071	4/28/2000	1240	36.2
MW-071	4/18/2001	1100	67
MW-071	4/23/2002	1100	45
MW-071	10/21/2003	1100	77
MW-071	4/6/2004	1100	23
MW-071	4/21/2005	1300	21.8
MW-071	4/20/2006	1100	20.06
MW-072	4/5/1994	NA	32
MW-072	7/19/1994	NA	32
MW-072	1/11/1995	NA	52
MW-072	6/30/1998	NA	49
MW-073	6/30/1998	3700	320
MW-073	5/4/2000	1570	176
MW-073	4/23/2001	1900	170
MW-073	4/24/2002	1800	140
MW-073	10/24/2003	3200	260
MW-073	4/9/2004	3200	290
MW-073	4/21/2005	3320	262
MW-073	4/21/2006	3170	242
MW-074	7/18/1997	NA	260
MW-074	6/24/1998	1500	340
MW-074	5/4/2000	466	146
MW-074	4/24/2001	850	130
MW-074	4/24/2002	730	100
MW-074	10/23/2003	840	170
MW-074	4/9/2004	910	170
MW-074	4/21/2005	1310	204
MW-074	4/21/2006	886	192
MW-075	6/30/1998	870	54
MW-076	6/29/1998	400	23
MW-077	7/21/1995	NA	110
MW-077	1/20/1996	NA	120
MW-077	4/19/1996	NA	120
MW-077	7/1/1996	NA	100
MW-077	10/1/1996	NA	140
MW-077	5/7/1997	NA	150
MW-077	7/18/1997	NA	150
MW-077	10/24/2003	590	57
MW-077	4/7/2004	550	40
MW-077	4/27/2005	1110	180
MW-077	4/26/2006	521	55

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	Constituent	Wet Chemistry Analytical Data (mg/L)	
		Total Dissolved Solids (TDS)	Chloride
	New Mexico Standards	1000	250
MW-078	10/1/1996	NA	31
MW-078	2/10/1997	NA	75
MW-078	5/7/1997	NA	59
MW-078	7/17/1997	NA	48
MW-078	6/19/1998	490	47
MW-078	4/22/1999	470	42
MW-078	4/22/2002	450	35
MW-078	10/24/2003	440	22
MW-078	4/9/2004	240	3.6
MW-078	4/27/2005	429	16.9
MW-078	4/26/2006	403	15.4
MW-079	1/11/1995	NA	36
MW-079	4/6/1995	NA	33
MW-079	7/21/1995	NA	31
MW-079	10/10/1995	NA	30
MW-079	1/18/1996	NA	23
MW-079	4/19/1996	NA	30
MW-079	7/1/1996	NA	17
MW-079	10/1/1996	NA	20
MW-079	2/10/1997	NA	24
MW-079	5/7/1997	NA	24
MW-079	7/17/1997	NA	24
MW-079	5/2/2000	563	39.6
MW-079	4/17/2002	490	37
MW-081	6/29/1998	800	16
MW-082	10/11/1995	NA	76
MW-082	6/25/1998	730	72
MW-083	6/25/1998	640	49
MW-084	6/23/1998	370	7
MW-085	6/23/1998	1100	120
MW-086	6/26/1998	1500	330
MW-087	8/1/1996	810	NA
MW-087	8/22/1996	NA	11
MW-087	10/1/1996	NA	12
MW-087	2/9/1997	580	11
MW-087	5/6/1997	NA	13
MW-087	6/19/1998	710	13
MW-087	4/20/1999	NA	10
MW-087	5/1/2000	690	10.3
MW-087	4/19/2001	680	1.2
MW-087	4/23/2002	670	9.9
MW-087	10/23/2003	600	14
MW-087	4/9/2004	680	8.9
MW-087	4/21/2005	669	11.2
MW-087	4/21/2006	591	14.9
MW-087A	10/1/1996	NA	110
MW-087A	2/9/1997	3200	150
MW-087A	5/7/1997	NA	140
MW-087A	5/1/2000	3290	127
MW-087A	4/19/2001	2900	130
MW-087A	4/23/2002	2700	130
MW-087A	10/23/2003	3500	120
MW-087A	4/7/2004	3400	160
MW-087A	4/26/2005	1640	100
MW-087A	4/21/2006	2960	158
MW-088	2/5/1997	970	30
MW-088	4/30/1997	NA	26
MW-088	10/15/1997	NA	NA
MW-088	6/18/1998	840	22
MW-088	4/21/1999	800	24
MW-088	4/28/2000	876	43.1
MW-088	4/17/2001	770	23

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	Constituent	Wet Chemistry Analytical Data (mg/L)	
		Total Dissolved Solids (TDS)	Chloride
	New Mexico Standards	1000	250
MW-088	4/19/2002	750	35
MW-088	10/21/2003	810	22
MW-088	4/6/2004	820	19
MW-088	4/21/2005	945	27.8
MW-088	4/20/2006	780	29.7
MW-088	4/19/2007	861	32.8
MW-088	5/27/2009	937	48.1
MW-089	8/1/1996	900	NA
MW-089	8/22/1996	NA	63
MW-089	10/1/1996	NA	63
MW-089	2/5/1997	840	60
MW-089	4/30/1997	NA	58
MW-089	6/17/1998	780	61
MW-089	4/21/1999	710	55
MW-089	4/27/2000	850	50
MW-089	4/18/2001	760	52
MW-089	4/19/2002	730	48
MW-089	10/22/2003	770	50
MW-089	4/6/2004	770	45
MW-089	4/21/2005	831	49.8
MW-089	4/19/2006	777	49.9
MW-090	2/10/1997	460	26
MW-090	5/7/1997	NA	25
MW-090	7/17/1997	NA	19
MW-090	6/17/1998	530	35
MW-090	4/23/1999	740	51
MW-090	5/2/2000	422	17.2
MW-090	4/24/2001	360	21
MW-090	4/18/2002	380	24
MW-090	10/23/2003	450	20
MW-090	4/13/2004	210	1.7
MW-090	4/21/2005	570	17.6
MW-090	4/26/2006	415	13.2
MW-091	2/11/1997	590	80
MW-091	4/23/1999	640	58
MW-091	4/18/2002	560	55
MW-091	10/23/2003	450	49
MW-091	4/13/2004	510	31
MW-091	4/25/2005	563	27.5
MW-094	6/26/1998	600	24
MW-094	6/26/1998	530	20
MW-094	5/3/2000	721	24.1
MW-094	4/24/2001	560	21
MW-094	4/24/2002	550	20
MW-094	10/27/2003	580	27
MW-094	4/9/2004	600	23
MW-094	4/26/2005	632	35.8
MW-094	4/21/2006	610	41.2
MW-095	4/30/1997	370	NA
MW-095	6/22/1998	360	5
MW-095	4/22/1999	340	5.6
MW-095	5/2/2000	349	3.45
MW-095	4/24/2001	320	3
MW-095	4/23/2002	330	23
MW-095	10/23/2003	410	2.8
MW-095	4/12/2004	370	2.4
MW-095	4/20/2005	400	4.13
MW-095	4/19/2006	353	4.54
MW-096	4/30/1997	560	NA
MW-096	6/21/1998	560	14
MW-096	4/22/1999	520	13
MW-096	5/1/2000	600	12.1

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	Constituent	Wet Chemistry Analytical Data (mg/L)	
		Total Dissolved Solids (TDS)	Chloride
	New Mexico Standards	1000	250
MW-096	4/19/2001	570	12
MW-096	4/22/2002	520	13
MW-096	10/22/2003	560	12
MW-096	4/6/2004	580	11
MW-096	4/20/2005	644	13.1
MW-096	4/20/2006	569	14.4
MW-097	6/21/1998	520	8
MW-097	10/12/1998	530	6.7
MW-097	5/2/2000	533	5.17
MW-097	4/19/2001	440	4.6
MW-097	4/22/2002	450	4.8
MW-097	10/21/2003	440	4.1
MW-097	4/6/2004	310	2.8
MW-097	4/19/2006	404	4.21
MW-097	4/20/2005	363	3.46
MW-098	6/29/1998	310	14
MW-098	5/2/2000	324	12.1
MW-098	4/24/2001	300	16
MW-098	4/23/2002	330	14
MW-098	10/23/2003	310	14
MW-098	4/12/2004	400	12
MW-098	4/20/2005	370	15.5
MW-098	4/19/2006	334	15.6
MW-104	7/17/1997	580	11.6
MW-104	6/21/1998	560	14
MW-104	4/23/2001	520	15
MW-104	4/22/2002	500	15
MW-104	10/22/2003	580	13
MW-104	4/7/2004	550	13
MW-104	4/20/2005	600	13.9
MW-104	4/24/2006	528	14.4
MW-106	2/11/1997	430	10
MW-106	5/7/1997	NA	4
MW-106	7/18/1997	NA	5
MW-106	6/18/1998	380	4
MW-106	4/29/1999	NA	12
MW-106	5/1/2000	350	3.45
MW-106	4/18/2001	340	5.6
MW-106	4/17/2002	350	12
MW-106	10/21/2003	350	3.1
MW-106	4/5/2004	540	3.3
MW-106	4/20/2005	405	3.58
MW-106	4/19/2006	371	4.34
MW-106	4/18/2007	396	4.17
MW-108	7/17/1997	360	3.2
MW-108	6/22/1998	340	5
MW-108	4/22/1999	340	4.3
MW-108	5/4/2000	370	3.45
MW-108	4/19/2001	360	3.4
MW-108	4/22/2002	330	3.4
MW-108	10/22/2003	330	2.6
MW-108	4/6/2004	360	2.5
MW-108	4/20/2005	388	3.67
MW-108	4/20/2006	349	4.15
MW-110	6/30/1998	600	54
MW-111	6/29/1998	900	100
MW-111	4/21/1999	760	120
MW-111	4/27/2000	994	103
MW-111	4/18/2001	800	100
MW-111	4/19/2002	750	100
MW-111	10/22/2003	800	98
MW-111	4/7/2004	790	70

Appendix B
Summary of Analytical Results for All Sampling Events
1991 through 2009
Wet Chemistry

	Constituent	Wet Chemistry Analytical Data (mg/L)	
		Total Dissolved Solids (TDS)	Chloride
	New Mexico Standards	1000	250
MW-111	4/21/2005	932	101
MW-111	4/19/2006	872	88.6
MW-111	4/18/2007	874	86.4
MW-111	5/27/2009	886	67.9
MW-127	5/28/2009	766	77.1
SUMP-16A	5/1/1991	876	190
SUMP-16A	7/1/1991	NA	49
SUMP-16A	9/1/1991	263	NA
SUMP-16A	12/1/1991	NA	683
SUMP-16A	4/1/1992	NA	522
SUMP-16A	7/1/1992	NA	82
SUMP-16A	10/1/1992	NA	225
SUMP-16A	1/1/1993	NA	229
SUMP-16A	4/14/1993	NA	218
SUMP-16A	10/5/1994	NA	128
SUMP-16A	1/11/1995	NA	90
SUMP-16A	10/12/1995	NA	63
SUMP-16A	7/1/1996	NA	14
SUMP-A10	4/1/1991	NA	17000
SUMP-A10	5/1/1991	NA	3750
SUMP-A10	10/5/1994	NA	4.2
SUMP-A10	10/12/1995	NA	3
SW-1	7/1/1991	583	19
SW-1	4/1/1992	NA	16
SW-1	7/1/1992	NA	19
SW-1	10/1/1992	NA	25
SW-1	4/15/1993	NA	20
SW-1	5/12/1993	NA	19.5
SW-1	4/23/1999	530	22
SW-1	4/25/2005	582	25.7
SW-2	5/12/1993	NA	522
SW-2	1/11/1995	NA	81
SW-2	6/24/1998	730	150
SW-2	4/23/1999	670	44
SW-3	7/1/1996	NA	24
SW-3	10/1/1996	380	11
SW-3	6/24/1998	410	9
SW-3	4/23/1999	NA	24
SW-3	4/25/2005	423	14.6

Notes:

NA No analysis performed
mg/L Milligrams per liter
1100 Indicates result at/above the applicable standard
<5 Indicates the result is below the specified laboratory detection limit

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Appendix C

Laboratory Analytical Reports
(CD-Rom)

May 2009 Groundwater Sampling
Event

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Appendix D

NMOCD Correspondence



New Mexico Energy, Minerals and Natural Resources Department

Bill Richardson
Governor

Joanna Prukop
Cabinet Secretary
Reese Fullerton
Deputy Cabinet Secretary

Mark Fesmire
Division Director
Oil Conservation Division



February 20, 2009

M. Paul Peacock
Marathon Oil Company
P.O. Box 3128
Houston, TX 77253-3128

**RE: Indian Basin Remediation Project Report and Proposed Well Plugging Request
for the Marathon's Indian Basin Gas Plant (GW-21)
Eddy County, New Mexico**

Dear Mr. Peacock:

The New Mexico Oil Conservation Division (OCD) has reviewed Marathon's report, Evaluation of Natural Attenuation, Indian Basin Remediation Project [IBRP], Eddy County, New Mexico, dated May 12, 2008, and Proposed IBRP Well Plugging Program [Request], dated February 5, 2009. The report and request are substantially acceptable to the OCD. Therefore, the OCD hereby conditionally approves the discontinuance of active remediation at the above-referenced site.

However, at least annual groundwater monitoring for BTEX, TDS and chloride at the 13 proposed wells as specified in the Well Plugging Request plus at an additional two groundwater monitoring wells, MW-81 and MW-113, for a total of 15 wells must continue unless otherwise approved by the OCD. Also, at least semi-annually gauging of depth to groundwater and non-aqueous phase liquid thickness at these 15 wells must continue unless otherwise approved by the OCD. Marathon must continue to submit an annual groundwater monitoring report to the OCD unless otherwise approved by the OCD.

In addition, the material used to plug the 98 (the 100 proposed minus the 2 rejected) groundwater monitoring wells as specified in the Request must be a cement grout with 1% to 3% bentonite. Please submit to the OCD a final plugging report within 180 days of receipt of this letter.



M. Paul Peacock
GW-21
February 20, 2009
Page 2

Please be advised that OCD approval of this report and request does not relieve the owner/operator of responsibility should operations pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the owner/operator of responsibility for compliance with any OCD, federal, state, or local laws and/or regulations.

Thank you for your cooperation in this matter. If you have any questions regarding this matter, please contact Edward Hansen of my staff at 505-476-3489 or edwardj.hansen@state.nm.us.

Sincerely,



Wayne Price
Environmental Bureau Chief

WP:EJH:ejh

cc: OCD; Artesia District Office
Terry Persaud, P.E., Marathon Oil Company, P.O. Box 3128, Houston, TX 77253-3128

From: Hansen, Edward J., EMNRD [mailto:edwardj.hansen@state.nm.us]
Sent: Wednesday, June 17, 2009 12:42 PM
To: Persaud, Terry
Cc: Caudill, Ted L.; Kurki, Vijay K.; Newman, Dennis (Houston); alan.reed@arcadis-us.com; Lowe, Leonard, EMNRD
Subject: GW-21 Plugging Report Approval

**RE: "Indian Basin Remediation Project Monitoring Well Plugging Report"
for the Marathon's (now OXY's)
Indian Basin Gas Plant (GW-21)
Unit Letter G, Section 23, T21S, R23E, NMPM, Eddy County, New Mexico
Plugging Report Approval**

Dear Mr. Persaud:

The New Mexico Oil Conservation Division (OCD) has received the groundwater monitoring well plugging report for the Indian Basin Gas Plant (GW-21), dated June 11, 2009, and has conducted a review of the report. The plugging report, submitted for the above-referenced site, indicates that Marathon has met the plugging requirements. Therefore, the OCD hereby approves the plugging report. However, the OCD is anticipating the 2009 annual groundwater monitoring report for the remaining 15 monitoring wells this month.

Please be advised that OCD approval of this report does not relieve the owner/operator of responsibility should operations pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the owner/operator of responsibility for compliance with any OCD, federal, state, or local laws and/or regulations.

If you have any questions regarding this matter, please contact me at 505-476-3489.

Edward J. Hansen
Hydrologist
Environmental Bureau

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Appendix E

USEPA Low-flow Purging and
Sampling Procedures

U.S. ENVIRONMENTAL PROTECTION AGENCY

REGION II

GROUND WATER SAMPLING PROCEDURE

LOW STRESS (Low Flow) PURGING AND SAMPLING

I. SCOPE & APPLICATION

This Low Stress (or Low-Flow) Purging and Sampling Procedure is the EPA Region II standard method for collecting low stress (low flow) ground water samples from monitoring wells. Low stress Purging and Sampling results in collection of ground water samples from monitoring wells that are representative of ground water conditions in the geological formation. This is accomplished by minimizing stress on the geological formation and minimizing disturbance of sediment that has collected in the well. The procedure applies to monitoring wells that have an inner casing with a diameter of 2.0 inches or greater, and maximum-screened intervals of ten feet unless multiple intervals are sampled. The procedure is appropriate for collection of ground water samples that will be analyzed for volatile and semi-volatile organic compounds (VOCs and SVOCs), pesticides, polychlorinated biphenyls (PCBs), metals, and microbiological and other contaminants in association with all EPA programs.

This procedure does not address the collection of light or dense non-aqueous phase liquids (LNAPL or DNAPL) samples, and should be used for aqueous samples only. For sampling NAPLs, the reader is referred to the following EPA publications: DNAPL Site Evaluation (Cohen & Mercer, 1993) and the CRA Ground-Water Monitoring: Draft Technical Guidance (EPA/530-R-93-001), and references therein.

II. METHOD SUMMARY

The purpose of the low stress purging and sampling procedure is to collect ground water samples from monitoring wells that are representative of ground water conditions in the geological formation. This is accomplished by setting the intake velocity of the sampling pump to a flow rate that limits drawdown inside the well casing.

Sampling at the prescribed (low) flow rate has three primary benefits: First, it minimizes disturbance of sediment in the bottom of the well, thereby producing a sample with low turbidity (i.e., low concentration of suspended particles). Typically, this saves time and analytical costs by eliminating the need for collecting and analyzing an additional filtered sample from the same well. Second, this procedure minimizes aeration of the ground water during sample collection, which improves the sample quality for VOC analysis. Third, in most cases the procedure significantly reduces the volume of ground water purged from a well and the costs associated with its proper treatment and disposal.

III. ADDRESSING POTENTIAL PROBLEMS

Problems that may be encountered using this technique include a) difficulty in sampling wells with insufficient yield; b) failure of one or more key indicator parameters to stabilize; c) cascading of water and/or formation of air bubbles in the tubing; and d) cross-contamination between wells.

Insufficient Yield

Wells with insufficient yield (i.e., low recharge rate of the well) may dewater during purging. Care should be taken to avoid loss of pressure in the tubing line due to dewatering of the well below the level of the pump's intake. Purging should be interrupted before the water level in the well drops below the top of the pump, as this may induce cascading of the sand pack. Pumping the well dry should therefore be avoided to the extent possible in all cases. Sampling should commence as soon as the volume in the well has

recovered sufficiently to allow collection of samples. Alternatively, ground water samples may be obtained with techniques designed for the unsaturated zone, such as lysimeters.

Failure to Stabilize Key Indicator Parameters

If one or more key indicator parameters fails to stabilize after 4 hours, one of four options should be considered: a) continue purging in an attempt to achieve stabilization; b) discontinue purging, do not collect samples, and document attempts to reach stabilization in the log book; c) discontinue purging, collect samples, and document attempts to reach stabilization in the log book; or d) Secure the well, purge and collect samples the next day (preferred). The key indicator parameter for samples to be analyzed for VOCs is dissolved oxygen. The key indicator parameter for all other samples is turbidity.

Cascading

To prevent cascading and/or air bubble formation in the tubing, care should be taken to ensure that the flow rate is sufficient to maintain pump suction. Minimize the length and diameter of tubing (i.e., 1/4 or 3/8 inch ID) to ensure that the tubing remains filled with ground water during sampling.

Cross-Contamination

To prevent cross-contamination between wells, it is strongly recommended that dedicated, in-place pumps be used. As an alternative, the potential for cross-contamination can be reduced by performing the more thorough "daily" decontamination procedures between sampling of each well in addition to the start of each sampling day (see Section VII, below).

Equipment Failure

Adequate equipment should be on-hand so that equipment failures do not adversely impact sampling activities.

IV. PLANNING DOCUMENTATION AND EQUIPMENT

- Approved site-specific Field Sampling Plan/Quality Assurance Project Plan (QAPP). This plan must specify the type of pump and other equipment to be used. The QAPP must also specify the depth to which the pump intake should be lowered in each well. Generally, the target depth will correspond to the mid-point of the most permeable zone in the screened interval. Borehole geologic and geophysical logs can be used to help select the most permeable zone. However, in some cases, other criteria may be used to select the target depth for the pump intake. In all cases, the target depth must be approved by the EPA hydrogeologist or EPA project scientist.
- Well construction data, location map, field data from last sampling event.
- Polyethylene sheeting.
- Flame Ionization Detector (FID) and Photo Ionization Detector (PID).
- Adjustable rate, positive displacement ground water sampling pump (e.g., centrifugal or bladder pumps constructed of stainless steel or Teflon). A peristaltic pump may only be used for inorganic sample collection.
- Interface probe or equivalent device for determining the presence or absence of NAPL. Teflon or Teflon-lined polyethylene tubing to collect samples for organic analysis.
- Teflon or Teflon-lined polyethylene, PVC, Tygon or polyethylene tubing to collect samples for inorganic analysis. Sufficient tubing of the appropriate material must be available so that each well has dedicated tubing.

- Water level measuring device, minimum 0.01 foot accuracy, (electronic preferred for tracking water level drawdown during all pumping operations).
- Flow measurement supplies (e.g., graduated cylinder and stop watch or in-line flow meter).
- Power source (generator, nitrogen tank, etc.).
- Monitoring instruments for indicator parameters. Eh and dissolved oxygen must be monitored in-line using an instrument with a continuous readout display. Specific conductance, pH, and temperature may be monitored either in-line or using separate probes. A nephelometer is used to measure turbidity.
- Decontamination supplies (see Section VII, below).
- Logbook (see Section VIII, below).
- Sample bottles.
- Sample preservation supplies (as required by the analytical methods).
- Sample tags or labels, chain of custody.

V. SAMPLING PROCEDURES

Pre-Sampling Activities

1. Start at the well known or believed to have the least contaminated ground water and proceed systematically to the well with the most contaminated ground water. Check the well, the lock, and the locking cap for damage or evidence of tampering. Record observations.
2. Lay out sheet of polyethylene for placement of monitoring and sampling equipment.
3. Measure VOCs at the rim of the unopened well with a PID and FID instrument and record the reading in the field log book.
4. Remove well cap.
5. Measure VOCs at the rim of the opened well with a PID and an FID instrument and record the reading in the field log book.
6. If the well casing does not have a reference point (usually a V-cut or indelible mark in the well casing), make one. Note that the reference point should be surveyed for correction of ground water elevations to the mean geodesic datum (MSL).
7. Measure and record the depth to water (to 0.01 ft) in all wells to be sampled prior to purging. Care should be taken to minimize disturbance in the water column and dislodging of any particulate matter attached to the sides or settled at the bottom of the well.
8. If desired, measure and record the depth of any NAPLs using an interface probe. Care should be taken to minimize disturbance of any sediment that has accumulated at the bottom of the well. Record the observations in the log book. If LNAPLs and/or DNAPLs are detected, install the pump at this time, as described in step 9, below. Allow the well to sit for several days between the measurement or sampling of any DNAPLs and the low-stress purging and sampling of the ground water.

Sampling Procedures

9. **Install Pump:** Slowly lower the pump, safety cable, tubing and electrical lines into the well to the depth specified for that well in the EPA-approved QAPP or a depth otherwise approved by the EPA hydrogeologist or EPA project scientist. The pump intake must be kept at least two (2) feet above the bottom of the well to prevent disturbance and resuspension of any sediment or NAPL present in the bottom of the well. Record the depth to which the pump is lowered.
10. **Measure Water Level:** Before starting the pump, measure the water level again with the pump in the well. Leave the water level measuring device in the well.
11. **Purge Well:** Start pumping the well at 200 to 500 milliliters per minute (ml/min). The water level should be monitored approximately every five minutes. Ideally, a steady flow rate should be maintained that results in a stabilized water level (drawdown of 0.3 ft or less). Pumping rates should, if needed, be reduced to the minimum capabilities of the pump to ensure stabilization of the water level. As noted above, care should be taken to maintain pump suction and to avoid entrainment of air in the tubing. Record each adjustment made to the pumping rate and the water level measured immediately after each adjustment.
12. **Monitor Indicator Parameters:** During purging of the well, monitor and record the field indicator parameters (turbidity, temperature, specific conductance, pH, Eh, and DO) approximately every five minutes. The well is considered stabilized and ready for sample collection when the indicator parameters have stabilized for three consecutive readings as follows (Puls and Barcelona, 1996):
 - +0.1 for pH
 - +3% for specific conductance (conductivity)
 - +10 mv for redox potential
 - +10% for DO and turbidityDissolved oxygen and turbidity usually require the longest time to achieve stabilization. The pump must not be removed from the well between purging and sampling.
13. **Collect Samples:** Collect samples at a flow rate between 100 and 250 ml/min and such that drawdown of the water level within the well does not exceed the maximum allowable drawdown of 0.3 ft. VOC samples must be collected first and directly into sample containers. All sample containers should be filled with minimal turbulence by allowing the ground water to flow from the tubing gently down the inside of the container. Ground water samples to be analyzed for volatile organic compounds (VOCs) require pH adjustment. The appropriate EPA Program Guidance should be consulted to determine whether pH adjustment is necessary. If pH adjustment is necessary for VOC sample preservation, the amount of acid to be added to each sample vial prior to sampling should be determined, drop by drop, on a separate and equal volume of water (e.g., 40 ml). Ground water purged from the well prior to sampling can be used for this purpose.
14. **Remove Pump and Tubing:** After collection of the samples, the tubing, unless permanently installed, must be properly discarded or dedicated to the well for resampling by hanging the tubing inside the well.
15. **Measure and record well depth.**
16. **Close and lock the well.**

VI. FIELD QUALITY CONTROL SAMPLES

Quality control samples must be collected to determine if sample collection and handling procedures have adversely affected the quality of the ground water samples. The appropriate EPA Program Guidance should be consulted in preparing the field QC sample requirements of the site-specific QAPP.

All field quality control samples must be prepared exactly as regular investigation samples with regard to sample volume, containers, and preservation. The following quality control samples should be collected during the sampling event:

- Field duplicates
- Trip blanks for VOCs only
- Equipment blank (not necessary if equipment is dedicated to the well)

As noted above, ground water samples should be collected systematically from wells with the lowest level of contamination through to wells with highest level of contamination. The equipment blank should be collected after sampling from the most contaminated well.

VII. DECONTAMINATION

Non-disposable sampling equipment, including the pump and support cable and electrical wires which contact the sample, must be decontaminated thoroughly each day before use ("daily decon") and after each well is sampled ("between-well decon"). Dedicated, in-place pumps and tubing must be thoroughly decontaminated using "daily decon" procedures (see #17, below) prior to their initial use. For centrifugal pumps, it is strongly recommended that non-disposable sampling equipment, including the pump and support cable and electrical wires in contact with the sample, be decontaminated thoroughly each day before use ("daily decon").

EPA's field experience indicates that the life of centrifugal pumps may be extended by removing entrained grit. This also permits inspection and replacement of the cooling water in centrifugal pumps. All non-dedicated sampling equipment (pumps, tubing, etc.) must be decontaminated after each well is sampled ("between-well decon," see #18 below).

17. Daily Decon

- a) Pre-rinse: Operate pump in a deep basin containing 8 to 10 gallons of potable water for 5 minutes and flush other equipment with potable water for 5 minutes.
- b) Wash: Operate pump in a deep basin containing 8 to 10 gallons of a non-phosphate detergent solution, such as Alconox, for 5 minutes and flush other equipment with fresh detergent solution for 5 minutes. Use the detergent sparingly.
- c) Rinse: Operate pump in a deep basin of potable water for 5 minutes and flush other equipment with potable water for 5 minutes.
- d) Disassemble pump.
- e) Wash pump parts: Place the disassembled parts of the pump into a deep basin containing 8 to 10 gallons of non-phosphate detergent solution. Scrub all pump parts with a test tube brush.
- f) Rinse pump parts with potable water.
- g) Rinse the following pump parts with distilled/ deionized water: inlet screen, the shaft, the suction interconnector, the motor lead assembly, and the stator housing.
- h) Place impeller assembly in a large glass beaker and rinse with 1% nitric acid (HNO₃).

- i) Rinse impeller assembly with potable water.
- j) Place impeller assembly in a large glass beaker and rinse with isopropanol.
- k) Rinse impeller assembly with distilled/deionized water.

18. Between-Well Decon

- a) Pre-rinse: Operate pump in a deep basin containing 8 to 10 gallons of potable water for 5 minutes and flush other equipment with potable water for 5 minutes.
- b) Wash: Operate pump in a deep basin containing 8 to 10 gallons of a non-phosphate detergent solution, such as Alconox, for 5 minutes and flush other equipment with fresh detergent solution for 5 minutes. Use the detergent sparingly.
- c) Rinse: Operate pump in a deep basin of potable water for 5 minutes and flush other equipment with potable water for 5 minutes.
- d) Final Rinse: Operate pump in a deep basin of distilled/deionized water to pump out 1 to 2 gallons of this final rinse water.

VIII. FIELD LOG BOOK

A field log book must be kept each time ground water monitoring activities are conducted in the field. The field log book should document the following:

- Well identification number and physical condition.
- Well depth, and measurement technique.
- Static water level depth, date, time, and measurement technique.
- Presence and thickness of immiscible liquid layers and detection method.
- Collection method for immiscible liquid layers.
- Pumping rate, drawdown, indicator parameters values, and clock time, at three to five minute intervals; calculate or measure total volume pumped.
- Well sampling sequence and time of sample collection.
- Types of sample bottles used and sample identification numbers.
- Preservatives used.
- Parameters requested for analysis.
- Field observations of sampling event.
- Name of sample collector(s).
- Weather conditions.
- QA/QC data for field instruments.

IX. REFERENCES

Cohen, R.M. and J.W. Mercer, 1993, DNAPL Site Evaluation, C.K. Smoley Press, Boca Raton, Florida.

Puls, R. W. and M.J. Barcelona, 1996, Low-Flow (Minimal Drawdown) Ground-water Sampling Procedures, EPA/540/S-95/504.

U.S. EPA, 1993, RCRA Ground-Water Monitoring: Draft Technical Guidance, EPA/530-R-93-001.

U.S. EPA Region II, 1989, CERCLA Quality Assurance Manual.