



GLENN SPRINGS HOLDINGS, INC.
1201 Lake Robbins Drive, Room 16034, The Woodlands, Texas
77380

Mike Bratcher

Incident Supervisor Environmental Bureau
EMNRD – Oil Conservation Division
506 W. Texas Avenue
Artesia, NM 88210

04.25.2025

Re: Submittal of 2024 Annual Groundwater Monitoring Report
Indian Basin Gas Plant AP-107
Eddy County, New Mexico

Dear Mr. Bratcher,

Glenn Springs Holdings, Inc. (a subsidiary of Occidental Petroleum Corporation) is submitting the attached Annual Groundwater Monitoring Report for the Indian Basin Gas Plant (AP-107) located in Eddy County, New Mexico. The New Mexico Oil Conservation District requires groundwater monitoring of 15 wells at the site and submittal of an annual report documenting the groundwater monitoring activities.

Thank you, and please do not hesitate to contact me at (832) 636-3651 or via email at Brian_Noonan@oxy.com if you have any questions.

Sincerely,

A handwritten signature in blue ink, appearing to read "B J Noonan", followed by a horizontal line.

Brian J. Noonan

DIRECTOR OF OPERATIONS
GLENN SPRINGS HOLDINGS, INC.

✉ Brian_Noonan@oxy.com

☎ 832.636.3651



OXY **GLENN SPRINGS HOLDINGS, INC.**

2024 ANNUAL GROUNDWATER MONITORING REPORT

Indian Basin Gas Plant
Eddy County, New Mexico

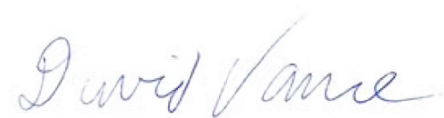
April 2025

2024 Annual Groundwater Monitoring Report



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2024 ANNUAL GROUNDWATER MONITORING REPORT

Indian Basin Gas Plant

Eddy County, New Mexico

Prepared for:

Brian Noonan

Director of Operations

OXY GLENN SPRINGS HOLDINGS, INC.

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April 25, 2025

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2024 Annual Groundwater Monitoring Report

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ACRONYMS AND ABBREVIATIONS

BTEX	Benzene, Toluene, Ethylbenzene, Xylene
IBGP	Indian Basin Gas Plant
IBRP	Indian Basin Remediation Project
NMOCD	New Mexico Oil Conservation Division
OXY	OXY USA WTP Limited Partnership
Site	Indian Basin Gas Plant
TDS	Total Dissolved Solids

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EXECUTIVE SUMMARY

This report documents the results for the June 2024 annual groundwater monitoring event and the November 2024 semi-annual gauging event and provides historical groundwater monitoring documentation. The 2024 annual groundwater monitoring event was conducted on June 13 and 14, 2024 and included the gauging of depth to groundwater and non-aqueous phase liquid thickness in 15 monitoring wells (seven in the Shallow Zone and eight in the Lower Queen) and sampling of monitoring wells for BTEX, TDS and chloride. On November 21, 2024, semi-annual 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) was conducted.

Liquid-level measurements obtained from the wells in June 2024 and November 2024 and the surveyed well elevations were used to calculate groundwater elevations, with density corrections to the water level made 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 0.014 ft/ft, and flow in the Lower Queen is generally to the northwest at an approximate gradient of 0.0011 ft/ft.

In June 2024, groundwater samples were collected from two Shallow Zone monitoring wells (MW-49 and MW-106) and five Lower Queen monitoring wells (MW-66, MW-70, MW-88, MW-111 and MW-127). The purging and sampling techniques utilized low-flow procedures as approved by the New Mexico Oil Conservation District (NMOCD) and implemented in 2003. Shallow monitoring wells MW-14, MW-46, MW-77 and MW-126 were not sampled because they did not contain sufficient volume of water for sampling, or the well was dry, and MW-45 was not sampled due to a blockage (roots) in the well. Lower Queen monitoring wells MW-58, MW-81 and MW-113 were not sampled due the presence of condensate in these monitoring wells.

- The analytical results indicate that BTEX was not detected in any of the sampled Shallow Zone monitoring wells. No BTEX was detected in the five sampled Lower Queen wells.
- In general, TDS and chloride concentrations in the sampled Shallow Zone monitoring wells were within historical levels. The TDS and chloride concentrations in well MW-106 were below the NMOCD regulatory limits. The TDS in MW-49 (3,930 mg/L) exceeded the NMOCD regulatory limit of 1,000 mg/L. Chloride in MW-49 (294 mg/L) exceeded the NMOCD regulatory limit of 250 mg/L. The TDS and chloride concentrations in the sampled Lower Queen wells were all below NMOCD regulatory limits. MW-111 had TDS of 1,120 mg/L (above the NMOCD standard) in 2023, but was below the regulatory limit in 2024 with a concentration of 614 mg/L.

Groundwater monitoring at the site will continue to be conducted according to the requirements outlined in the February 20, 2009 NMOCD letter. Based on the current program schedule, the next annual groundwater monitoring event will be conducted in June 2025 and the semi-annual groundwater gauging event will be conducted in November 2025. An annual report will be prepared at the conclusion of each Fall groundwater gauging event and will be submitted to the NMOCD.

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INTRODUCTION

Arcadis prepared this Annual Groundwater Monitoring report on behalf of OXY USA WTP Limited Partnership (Oxy) for the Indian Basin Remediation Project (IBRP) at the Indian Basin Gas Plant located in Eddy County, New Mexico. This report contains the results of the June 2024 annual groundwater monitoring event, the semi-annual groundwater gauging event conducted in November 2024 and includes historical groundwater monitoring data. This report is prepared in accordance with the groundwater monitoring requirements outlined in correspondence by the New Mexico Energy, Minerals, and Natural Resources Department, New Mexico Oil Conservation Division (NMOCD) to Marathon Oil Company dated February 20, 2009 prior to OXY operating the facility.

BACKGROUND

As discussed in previous annual groundwater monitoring reports, the IBGP (site) is 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 geology underlying the site is comprised of two distinct zones, both with saturated and unsaturated strata. The two geologic units are referred to as the Shallow Zone and the Lower Queen. Before 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 NMOCD approval, 39 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 entitled "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 entitled "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 to the OCD 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 be submitted. The NMOCD correspondence is included in Appendix E.

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 were 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 E).

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Table 1 lists the 15 wells currently in the groundwater monitoring program and monitoring requirements. Figure 2 depicts the site layout, including the locations of the remaining Shallow Zone and Lower Queen wells. Additional details regarding local and regional geology and hydrogeology are presented in the report entitled "Comprehensive Site Characterization Report for the IBRP", submitted to the NMOCD in December 1998.

GROUNDWATER AND CONDENSATE GAUGING

Groundwater gauging was conducted in June 2024 and November 2024. The gauging events consisted of collecting liquid-level measurements from the wells listed in Table 1 for both the Shallow Zone and Lower Queen. The results of the gauging events and precipitation (rainfall) information are discussed in the following sections. A summary of the June 2024 groundwater gauging results is provided in Table 2. The November 2024 groundwater gauging results are summarized in Table 3. Historical groundwater gauging data for the monitoring wells at the site are presented in Appendix A.

Shallow Zone Aquifer

Seven monitoring wells completed in the Shallow Zone were gauged during the June 2024 and November 2024 events. The liquid-level measurements and the top of casing elevations for the wells were used to calculate the groundwater elevation at each well. Density corrections to the water level elevations were made for wells containing condensate.

From November 2023 to June 2024, groundwater elevations (including density corrections for condensate, if present) decreased in Shallow Zone wells MW-46 (-0.16 ft.) and MW-49 (-0.61 ft.). The groundwater elevation in MW-14 increased by 0.70 ft and in MW-106 it increased by 3.15 feet. MW-77 and MW-126 were dry in June 2024. Water level data were not collected for MW-46 in June 2024 due to encountering some blockage (roots) in the well. During the June 2024 event, no measurable condensate thickness was detected in any of the Shallow Zone monitoring wells. Historically, MW-126 has had condensate thicknesses ranging from 0 to 3.96 feet.

From June to November 2024, groundwater elevations (including density corrections for condensate, if present) decreased in Shallow Zone wells MW-14 (-0.54 ft.), MW-49 (-0.23 ft) and MW-106 (-4.21 ft). The groundwater elevation in MW-46 increased from June to November 2023 by 0.20 feet. During the November 2024 water level gauging event, trace condensate was detected in Shallow Zone monitoring well MW-126. Condensate was not detected in any other Shallow Zone well in June or November 2024.

Groundwater elevation contour maps were prepared based on the June 2024 and November 2024 groundwater elevation data (Figures 3 and 7). As shown on Figures 3 and 7, the observed groundwater flow direction in the Shallow Zone is southeast at an approximate gradient of 0.014 ft./ft. The flow direction and gradient are generally consistent with historical patterns.

Lower Queen Aquifer

The eight monitoring wells completed in the Lower Queen were gauged during the June and November 2024 sampling events. The liquid-level measurements and the top of casing elevations for the wells were

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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 June 2024 gauging event, trace condensate was observed in Lower Queen monitoring wells MW-58 and MW-113. MW-81 had condensate thickness of 0.04 feet. Historically, condensate thickness ranged from 0 to 5.26 feet in MW-58, 0 to 12.08 feet in MW-81 and 0 to 0.88 feet in MW-113. The water level elevation in MW-58 has experienced broad fluctuations over the latter part of 2015 to the gauging events in 2024. As discussed in earlier annual reports, the cause of this fluctuation is possibly due to measurement interference created by biomass in the well which was reported historically for the gauging events conducted in 2001. During the November 2024 gauging event, trace condensate was observed in monitoring well MW-113 and MW-81 contained a condensate thickness of 0.05 feet.

From November 2023 to June 2024, the groundwater elevation (including density corrections for condensate, if present) increased in Lower Queen monitoring well MW-58 by 16.15 feet. The groundwater elevation decreased in the other seven Lower Queen monitoring wells MW-66 (-0.66 ft.), MW-70 (-0.47 ft.), MW-81 (-3.01 ft.), MW-88 (-0.51 ft.), MW-111 (-1.38 ft.), MW-113 (-0.50 ft) and MW-127 (-0.68 ft.).

From June to November 2024, groundwater elevations (including density corrections for condensate, if present) increased in Lower Queen monitoring well MW-81 (0.01 ft.) and MW-127 (0.27 ft.). The groundwater elevation in the remaining six wells, MW-58 (-4.11 ft), MW-66 (-0.28 ft.), MW-70 (-0.24 ft.), MW-88 (-0.36 ft.), MW-111 (-0.17 ft.) and MW-113 (-0.45 ft.) decreased from June to November 2024.

Groundwater elevation contour maps were prepared based on the June and November 2024 groundwater elevation data (Figures 4 and 8). As shown on Figures 4 and 8, the observed groundwater flow direction in the Lower Queen is generally to the northwest at an approximate gradient of 0.0011 ft./ft. The flow direction is generally consistent with historical patterns and the gradient is at the low end of the historical range.

Precipitation Recharge

Table 4 summarizes monthly rainfall for the area during 2024 along with historical precipitation since 1994. From 1994 through 2006, the precipitation records were from the Indian Basin Gas Plant. For the years 2007 through 2024, the precipitation records are from a weather station located in Carlsbad, New Mexico. The site has historically received the highest amounts of precipitation between the months of June and October. The average annual rainfall measured over the past five years (2020 to 2024) was approximately 8.31 inches which is below the long-term average for the area of approximately 10.48 inches per year. During 2024, data from the Carlsbad station indicated that the highest amount of precipitation was received in September (1.58 inches) with a total of 5.17 inches reported for the year (5.3 inches below the long-term average). The 4.60 inches of total rainfall in 2020 was the lowest recorded in the last 12 years (5.17 inches were recorded in 2024 and 5.84 inches in 2011).

In general, water levels in both the Shallow Zone and the Lower Queen seem to rise in the Fall months and decline in the Spring / Summer months which corresponds to the observed rainfall pattern of greater amount of rainfall / precipitation in the second half of the year than the first half of the year. For 2024, the water levels in both the Shallow Zone and the Lower Queen generally declined during the year and may reflect the low rainfall occurrence during the entire year.

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GROUNDWATER SAMPLING AND ANALYSIS

In a letter dated February 20, 2009 (Appendix E), the NMOCD required annual groundwater monitoring for BTEX, TDS and chloride for seven Shallow Zone and eight Lower Queen monitoring wells. Arcadis personnel conducted the 2024 annual groundwater sampling event at the site on June 13 and June 14, 2024. All samples were collected using low flow purging and sampling techniques.

The groundwater samples collected were placed in laboratory-provided sample containers appropriate for the specified laboratory analysis. Each sample container was properly labelled with a unique sample identification number and placed on ice in a laboratory-provided sample cooler and shipped by overnight delivery to ALS Environmental in Houston, Texas for analysis. A properly completed chain-of-custody (COC) form accompanied each cooler containing the samples. The COC showed the sample number, the time of collection, the sample preservative and the analyses to be performed.

Table 5 summarizes the BTEX, chloride and TDS analytical results for the June 2024 event. Summaries of historical BTEX, TDS and chloride analytical data are presented in Appendix B. The complete laboratory analytical report for the annual groundwater sampling event in 2024 is contained in Appendix C. GHD performed the data validation of the laboratory data for the June 2024 sampling event. A copy of the data validation report is contained in Appendix D.

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

Shallow Zone Aquifer

BTEX Analysis

Groundwater samples were collected from two Shallow Zone monitoring wells (MW-49 and MW-106) for the June 2024 sampling event. MW-14, MW-46, MW-77 and MW-126 were not sampled because they did not contain sufficient volume of water for sampling or were dry. MW-45 was not sampled because of a blockage (roots) encountered in the well. The results of the BTEX laboratory analysis of the Shallow Zone groundwater samples are summarized as follows:

- Benzene was not detected in the two monitoring wells sampled (MW-49 and MW-106).
- Benzene had occasionally been detected in MW-49 over the last four years, but none was detected in 2024.
- BTEX was not detected in any of the remaining Shallow Zone monitoring wells for the June 2024 sampling event.

Figure 5 illustrates the distribution of dissolved BTEX compounds in the Shallow Zone aquifer in June 2024. As indicated by the historical data in Appendix B, BTEX concentrations in this water-bearing zone have generally remained stable or declined over time.

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Wet Chemistry Analysis

In addition to BTEX analysis, groundwater samples collected in June 2024 from the Shallow Zone monitoring wells were analyzed for TDS and chloride. The results for TDS and chloride are summarized as follows:

- TDS concentration in MW-106 (348 mg/L) was below the NMOCD standard but generally in the historical concentration range of 350 mg/L to 540 mg/L.
- TDS concentrations were detected above the NMOCD standard in the remaining Shallow Zone monitoring well sampled (MW-49) in 2024. The TDS concentration in MW-49 (3,930 mg/L) was within the historical range of 2,600 mg/L to 5,220 mg/L recorded for this well.
- As mentioned earlier, MW-14 and MW-46 were not sampled during the June 2024 sampling event because they did not contain enough water for sample collection. These two monitoring wells were also not sampled in June 2021, June 2022 and June 2023 for the same reason. TDS was detected in MW-14 and MW-46 for the sampling event performed in 2019 and 2020. MW-45 was not sampled in 2024 due to obstructions encountered in the well (roots). During the 2023 sampling event, TDS of 5,380 mg/L were detected in this well, which is within the historical range of 2,540 mg/L to 6,480 mg/L.
- As discussed above, the chloride concentration in MW-106 (3.52 mg/L) was below the NMOCD standard and within the historical range of 2.3 mg/L to 12 mg/L.
- As discussed above, chloride concentration was detected above the NMOCD standard in MW-45 (266 mg/L) which represented a decrease in concentration from 313 mg/L in 2022 and 497 mg/L in 2021, but above the NMOCD standard.
- The chloride concentration in MW-49 was 294 mg/L in 2024 which represents a decrease in concentration from 317 mg/L in 2023. The historical chloride concentration range in MW-49 is 36 mg/L (1996) to 570 mg/L (2003).

A summary of the TDS and chloride analytical results for 2024 is provided in Table 5. Appendix B contains a summary of the historical chloride and TDS data. A Copy of the analytical laboratory report for 2024 is included in Appendix C. Figure 5 depicts TDS and chloride concentrations in the Shallow Zone wells sampled in June 2024.

Lower Queen Aquifer

BTEX Analysis

Groundwater samples were collected from five Lower Queen monitoring wells (MW-66, MW-70, MW-88, MW-111 and MW-127) in June 2024. Samples were not collected from MW-58, MW-81 and MW-113 due to the presence of condensate in the wells. No BTEX was detected in any of the five sampled Lower Queen monitoring wells in 2024, 2023 and 2022. Figure 6 illustrates the distribution of dissolved BTEX compounds in the Lower Queen in June 2024.

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Wet Chemistry Analysis

In addition to BTEX analysis, groundwater samples were collected in June 2024 from the Lower Queen monitoring wells MW-66, MW-70, MW-88, MW-111 and MW-127 and analyzed for TDS and chlorides. The results of the TDS and chloride laboratory analyses for the Lower Queen monitoring wells are summarized as follows:

- TDS concentrations were below the NMOCD standard of 1,000 mg/L in all samples collected from the Lower Queen monitoring wells. A TDS of 1,120 mg/L was detected in MW-111 in 2023 but was 768 mg/L in 2022 and historically has been less than 1,000 mg/L and ranged from 616 mg/L to 900 mg/L. The TDS concentration in MW-88 was 620 mg/L in 2023 which was a decline from 1,020 in 2022. Historically, the TDS in this well ranged from 750 mg/L to 1,030 mg/L. For the June 2024 sampling event, the TDS concentrations for the Lower Queen monitoring wells ranged from 422 mg/L in MW-70 to 880 mg/L in MW-88. The 14 mg/L TDS reported for MW-70 in 2023 was questionable then in view of the historical TDS range for this well being 270 mg/L to 1,750 mg/L.
- Chloride concentrations were well below the NMOCD standard of 250 mg/L in all five samples collected from the Lower Queen monitoring wells in 2024. The chloride concentrations ranged from 10.5 mg/L in MW-70 to 41.90 mg/L in MW-127.

A summary of the laboratory analysis data for TDS and chloride is provided in Table 5. Appendix B contains a summary of the historical TDS and chloride data. A copy of the analytical laboratory report is included in Appendix C. Figure 6 depicts TDS and chlorides in the Lower Queen monitoring wells sampled in June 2024.

SUMMARY

Groundwater Monitoring

Results of the annual groundwater monitoring event conducted in June 2024 and the groundwater gauging event conducted in November 2024 indicated similar groundwater conditions present as in prior years. Wells containing trace or measurable condensate in June and November 2024 were consistent with historical results. Analytical results for BTEX, chloride and TDS were similar to the historical data for the sampled wells.

No BTEX was detected in any of the Shallow Zone monitor wells any of the Lower Queen monitor wells in 2024.

Groundwater Monitoring Plan

For 2025, groundwater monitoring will continue at the Indian Basin Gas Plant in accordance with the requirements outlined in the February 20, 2009 NMOCD letter (Appendix E) including 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, an annual groundwater monitoring report will be submitted to the NMOCD. Based on the current program schedule, the annual groundwater monitoring event for 2025 is planned to be

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conducted in June and the semi-annual groundwater gauging event conducted in November. The annual report will be prepared and submitted to the NMOCD during the first half of 2026.

TABLES

Table 1. Groundwater Monitoring Plan
 OXY USA WTP Limited Partnership, Indian Basin Gas Plant
 Eddy County, New Mexico.

Shallow Zone Sampling Schedule

Well ID	Spring		Fall
	Annual	Analytical Parameters Annual	Semi-Annual
MW-14	Groundwater Gauging	BTEX, Chloride, TDS	Groundwater Gauging
MW-45	Groundwater Gauging	BTEX, Chloride, TDS	Groundwater Gauging
MW-46	Groundwater Gauging	BTEX, Chloride, TDS	Groundwater Gauging
MW-49	Groundwater Gauging	BTEX, Chloride, TDS	Groundwater Gauging
MW-77	Groundwater Gauging	BTEX, Chloride, TDS	Groundwater Gauging
MW-106	Groundwater Gauging	BTEX, Chloride, TDS	Groundwater Gauging
MW-126	Groundwater Gauging	BTEX, Chloride, TDS	Groundwater Gauging

Lower Queen Sampling Schedule

Well ID	Spring		Fall
	Annual	Analytical Parameters Annual	Semi-Annual
MW-58	Groundwater Gauging	BTEX, Chloride, TDS	Groundwater Gauging
MW-66	Groundwater Gauging	BTEX, Chloride, TDS	Groundwater Gauging
MW-70	Groundwater Gauging	BTEX, Chloride, TDS	Groundwater Gauging
MW-81	Groundwater Gauging	BTEX, Chloride, TDS	Groundwater Gauging
MW-88	Groundwater Gauging	BTEX, Chloride, TDS	Groundwater Gauging
MW-111	Groundwater Gauging	BTEX, Chloride, TDS	Groundwater Gauging
MW-113	Groundwater Gauging	BTEX, Chloride, TDS	Groundwater Gauging
MW-127	Groundwater Gauging	BTEX, Chloride, TDS	Groundwater Gauging

Notes:

TDS Total Dissolved Solids
 BTEX Benzene, Toluene, Ethylbenzene, and Total Xylenes

Table 2. Summary of Groundwater Gauging Results, June 2024
 Semi-Annual Groundwater Gauging Event
 OXY USA WTP Limited Partnership, Indian Basin Gas Plant, Eddy County, New Mexico.

Well Number	Well Diameter (in)	Northing NAD 27 Con hddd,mm',ss.s"	Easting	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	NR	3803.61	2.08	23.22	---	---	---	---	3780.39	Dry
MW-45	2	32 28 01.1	104 34 08.7	NR	3808.68	1.60	DRY	---	---	---	---	--	Blockage in well
MW-46	4	32 27 56.7	104 34 05.8	NR	3805.54	1.90	19.43	---	---	---	---	3786.11	
MW-49	2	32 27 57.6	104 33 59.9	NR	3805.61	1.90	23.21	---	---	---	---	3782.40	
MW-77	7.875	32 27 27.3	104 33 25.0	90.21	3775.48	2.38	80.54	---	---	---	---	--	Well Dry
MW-106	4	32 26 57.0	104 32 26.4	NR	3721.97	2.61	85.52	---	---	---	---	3636.45	
MW-126	4	32 27 48.2	104 33 49.9	68.31	3796.28	3.33	DRY	---	---	---	---	---	Well Dry
Lower Queen													
MW-58	7.875	32 28 04.5	104 33 28.5	NR	3824.07	3.48	181.67	---	---	---	---	3642.40	Trace condensate present
MW-66	4	32 28 19.1	104 33 28.5	NR	3828.98	2.60	205.05	---	---	---	---	3623.93	
MW-70	4	32 27 18.8	104 34 05.5	NR	3822.57	2.71	197.73	---	---	---	---	3624.84	
MW-81	7.875	32 28 04.3	104 33 19.5	NR	3817.03	3.98	190.75	190.71	0.04	0.03	190.72	3626.31	Condensate present
MW-88	4	32 28 25.3	104 32 55.6	NR	3789.70	2.71	165.43	---	---	---	---	3624.27	
MW-111	4	32 28 15.9	104 34 06.1	NR	3824.44	1.85	201.04	---	---	---	---	3623.40	
MW-113	7.875	32 27 16.3	104 33 32.1	NR	3772.67	1.82	147.40	---	---	---	---	3625.27	Trace condensate
MW-127	8.25	32 28 00.8	104 33 58.8	NR	3825.17	2.63	201.36	---	---	---	---	3623.81	

Foot Notes: TOC Top of Casing
 DTW Depth to Water
 DTP Depth to Product
 PT ADJ DTW
 WL Water Level
 Product Thickness
 Adjusted Depth to Water
 Water Level

Table 3. Summary of Groundwater Gauging Results, November 2024
 Semi-Annual Groundwater Gauging Event
 OXY USA WTP Limited Partnership, Indian Basin Gas Plant, Eddy County, New Mexico.

Well Number	Well Diameter (in)	Northing NAD 27 Con hddd,mm',ss.s"	Easting	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	24.45	3803.61	2.08	23.76	---	---	---	---	3779.85	
MW-45	2	32 28 01.1	104 34 08.7	26.52	3808.68	1.60	21.60	---	---	---	---	3787.08	Roots in well
MW-46	4	32 27 56.7	104 34 05.8	19.72	3805.54	1.90	19.23	---	---	---	---	3786.31	
MW-49	2	32 27 57.6	104 33 59.9	26.45	3805.61	1.90	23.44	---	---	---	---	3782.17	
MW-77	7.875	32 27 27.3	104 33 25.0	90.85	3775.48	2.38	80.46	---	---	---	---	3695.02	
MW-106	4	32 26 57.0	104 32 26.4	97.84	3721.97	2.61	89.73	---	---	---	---	3632.24	
MW-126	4	32 27 48.2	104 33 49.9	70.48	3796.28	3.33	69.12	---	---	---	---	3727.16	
Lower Queen													
MW-58	7.875	32 28 04.5	104 33 28.5	--	3824.07	3.48	185.78	---	---	---	---	3638.29	
MW-66	4	32 28 19.1	104 33 28.5	232.26	3828.98	2.60	205.33	---	---	---	---	3623.65	
MW-70	4	32 27 18.8	104 34 05.5	236.14	3822.57	2.71	197.97	---	---	---	---	3624.60	
MW-81	7.875	32 28 04.3	104 33 19.5	--	3817.03	3.98	190.75	190.70	0.05	0.04	190.71	3626.32	LNAPL Present
MW-88	4	32 28 25.3	104 32 55.6	182.43	3789.70	2.71	165.79	---	---	---	---	3623.91	
MW-111	4	32 28 15.9	104 34 06.1	239.42	3824.44	1.85	201.21	---	---	---	---	3623.23	
MW-113	7.875	32 27 16..3	104 33 32.1	--	3772.67	1.82	147.86	147.85	0.01	0.01	147.85	3624.82	Trace condensate
MW-127	8.25	32 28 00.8	104 33 58.8	254.43	3825.17	2.63	201.09	---	---	---	---	3624.08	

Foot Notes: TOC Top of Casing
 DTW Depth to Water
 DTP Depth to Product
 PT ADJ DTW
 WL Water Level
 Product Thickness
 Adjusted Depth to Water
 Water Level

Table 4. Summary of Historical Rainfall with Monthly Rainfall During 2024
 OXY USA WTP Limited Partnership, Indian Basin Gas Plant
 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*
2009	11.96*
2010	17.32*
2011	5.84*
2012	11.14*
2013	11.38*
2014	23.53*
2015	16.49*
2016	11.96*
2017	12.38*
2018	11.16*
2019	12.76*
2020	4.6*
2021	15.56*
2022	10.15*
2023	6.07*
2024	5.17*
Monthly Rainfall During 2024	
Month	Rainfall (inches)
January	0.03
February	0.37
March	0.08
April	0.00
May	0.00
June	1.34
July	0.48
August	0.57
September	1.58
October	0.06
November	0.66
December	0.00
2024 Annual Total	5.17

Source: Rain gauge at Indian Basin Gas Plant
 *Changed in 2007 to a station
 located in Carlsbad, NM

Table 5. Summary of Analytical Results, June 2024
Annual Groundwater Sampling Event
OXY USA WTP Limited Partnership, Indian Basin Gas Plant, Eddy County, New Mexico.

Well ID	Sample Date	Analytical Parameters					
		Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes (ug/L)	Chloride (mg/L)	TDS (mg/L)
OCD Regulatory Limits		10	750	750	620	250	1,000
Shallow Zone Wells							
MW-14		Not Sampled - not enough water to collect sample					
MW-45		Not Sampled - blockage in well					
MW-46		Not Sampled - not enough water to collect sample					
MW-49	6/13/2024	<5.0	<5.0	<7.5	<7.5	294	3,930
MW-77		Not Sampled - not enough water to collect sample					
MW-106	6/13/2024	<0.20	<0.20	<0.30	<0.30	3.52	348
MW-126		Not Sampled - well contained condensate					
Lower Queen Wells							
MW-58		Not Sampled - well contained condensate					
MW-66	6/13/2024	<0.20	<0.20	<0.30	<0.30	8.62	702
MW-70	6/14/2024	<0.20	<0.20	<0.30	<0.30	10.5	422
MW-81		Not Sampled - well contained condensate					
MW-88	6/13/2024	<5.0	<5.0	<7.5	<7.5	25.3	880
MW-111	6/14/2024	<0.20	<0.20	<0.30	<0.30	30.7	614
MW-113		Not Sampled - well contained condensate					
MW-127	6/13/2024	<5.0	<5.0	<7.5	<7.5	41.9	504

Notes:

ug/L Micrograms per liter

mg/L Milligrams per liter

<5 Compound below the laboratory detection limit

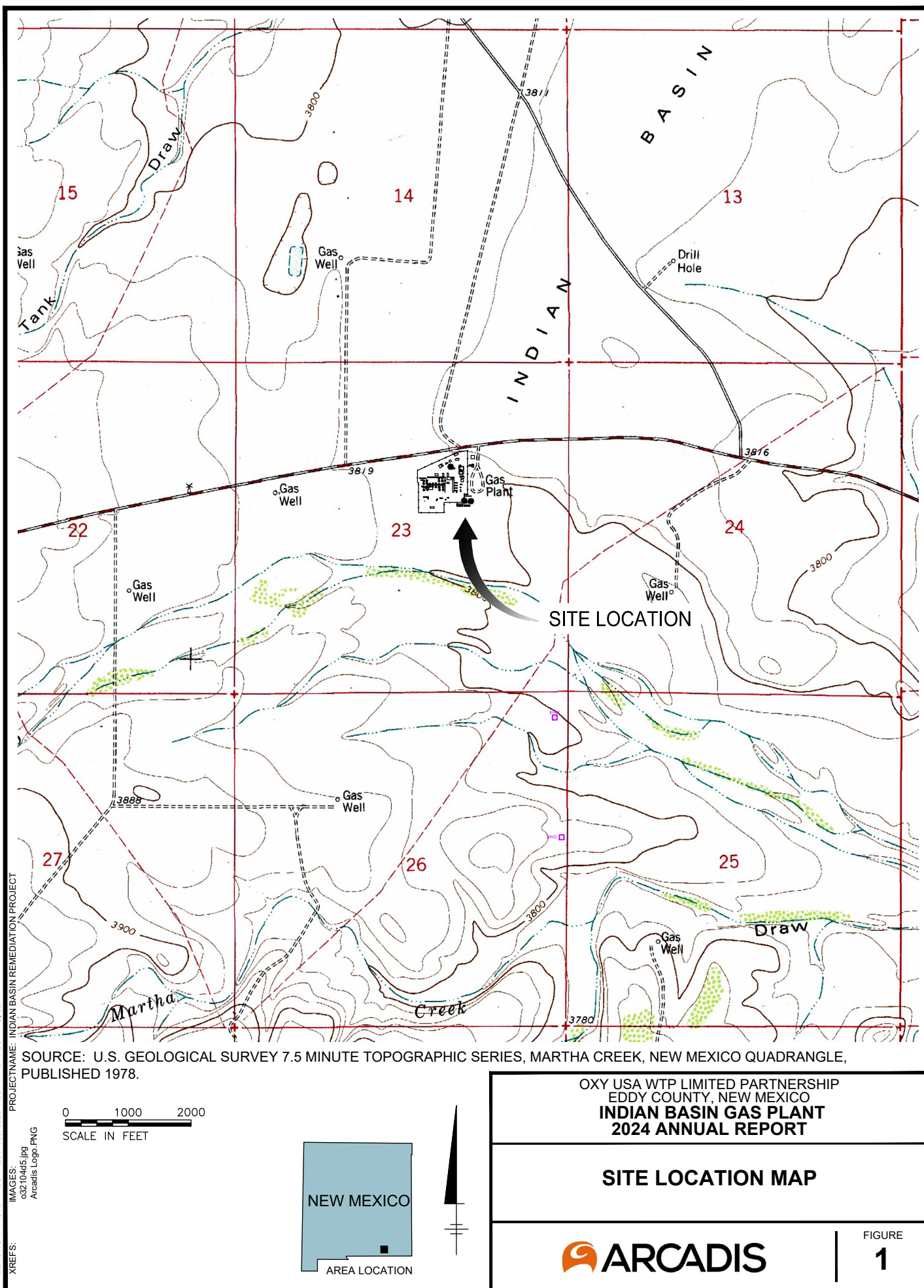
6 Indicates result above the detection limit and below the NMOCD standard

16 Indicates result at/above the NMOCD standard

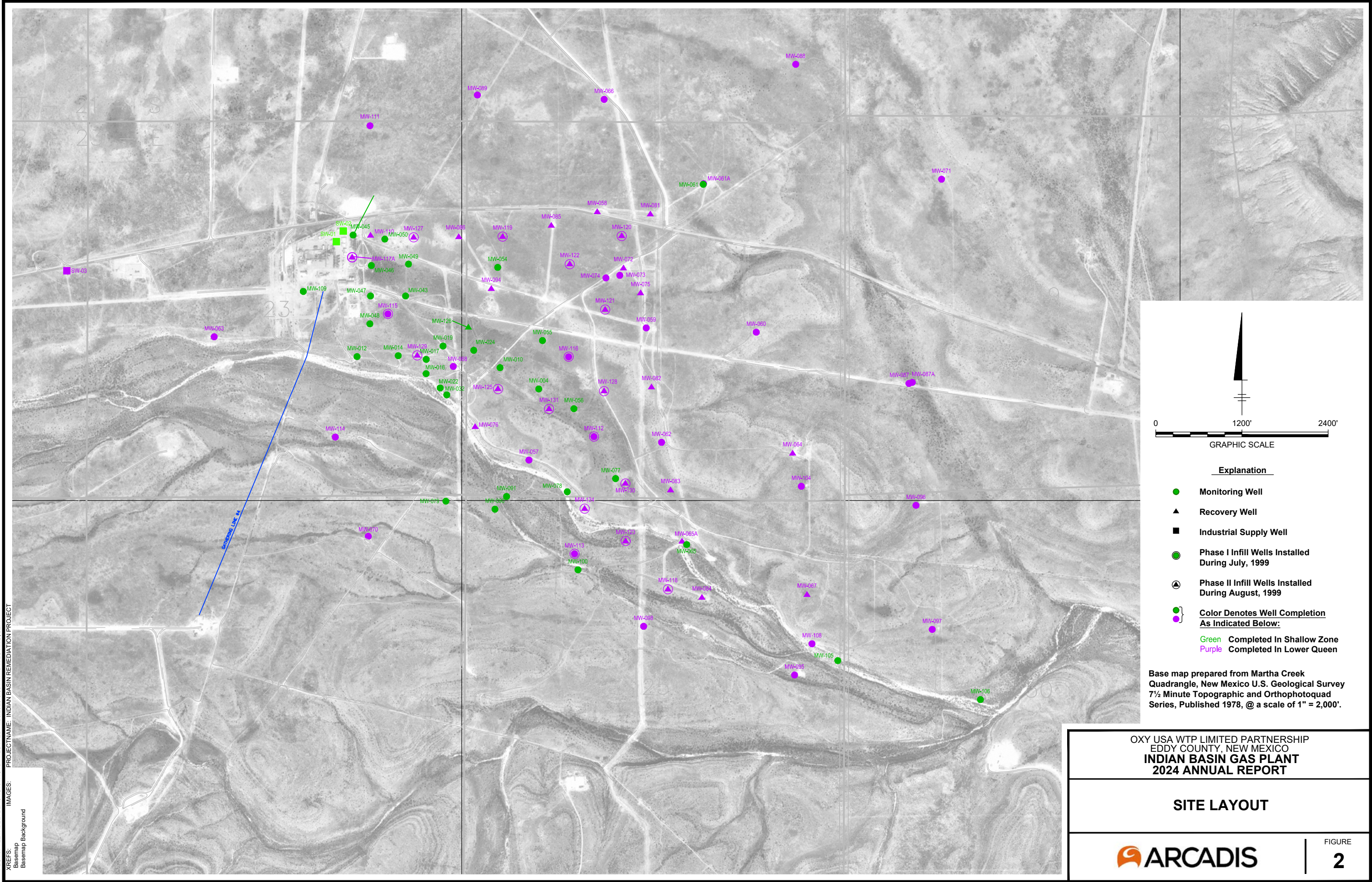
FIGURES



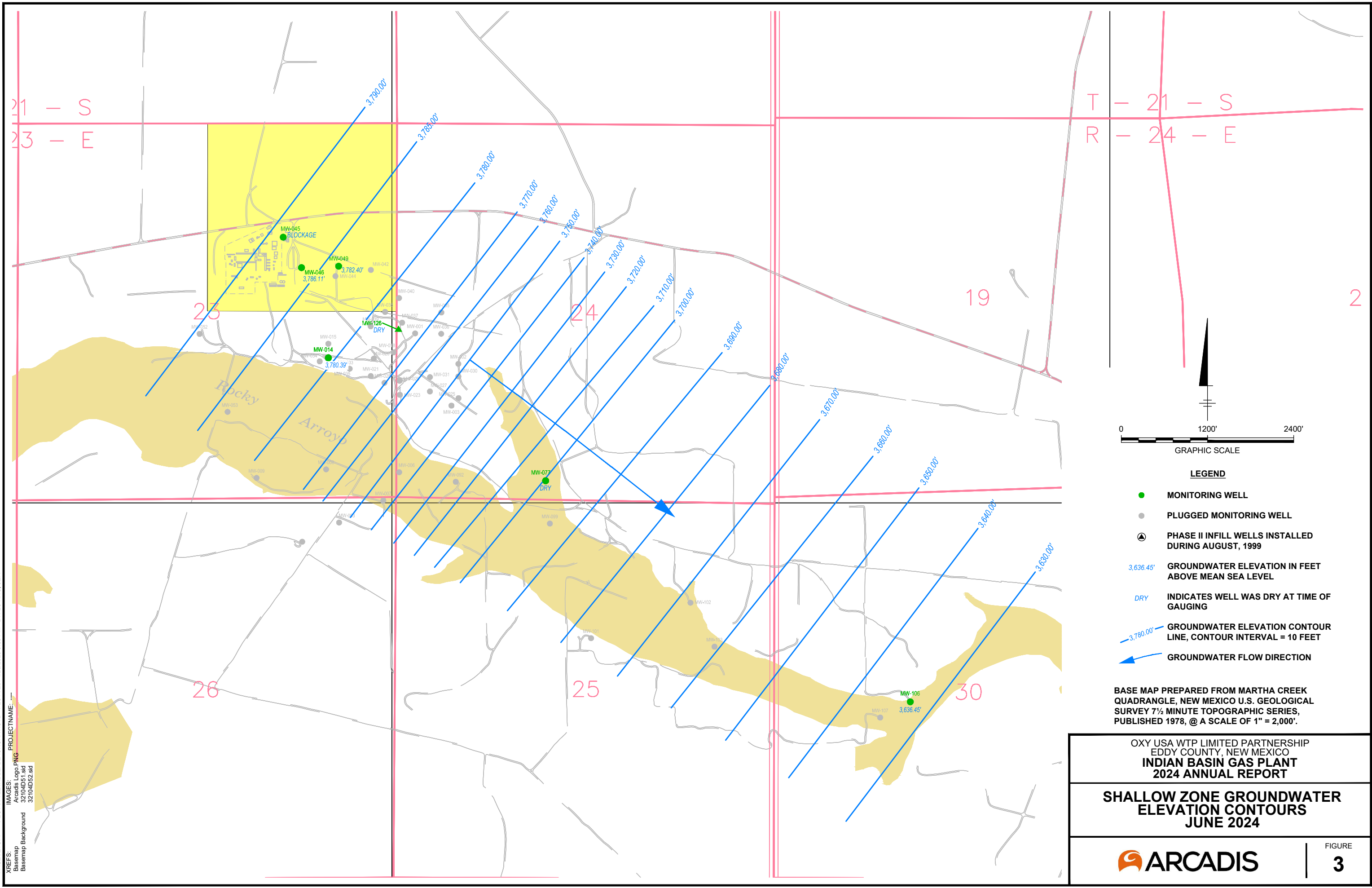
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 ACADVER: 24.2S (LMS TECH) SAVED: 4/23/2025 4:03 PM BY: LOVING, JEFF PLOTTED: 4/23/2025 4:03 PM PLOT: 1 PLOT SETUP: 1 PLOT STYLE: TABLE



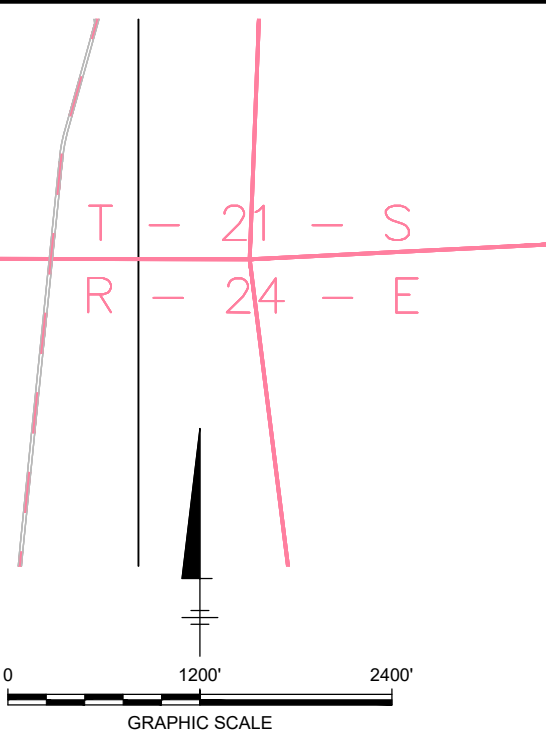
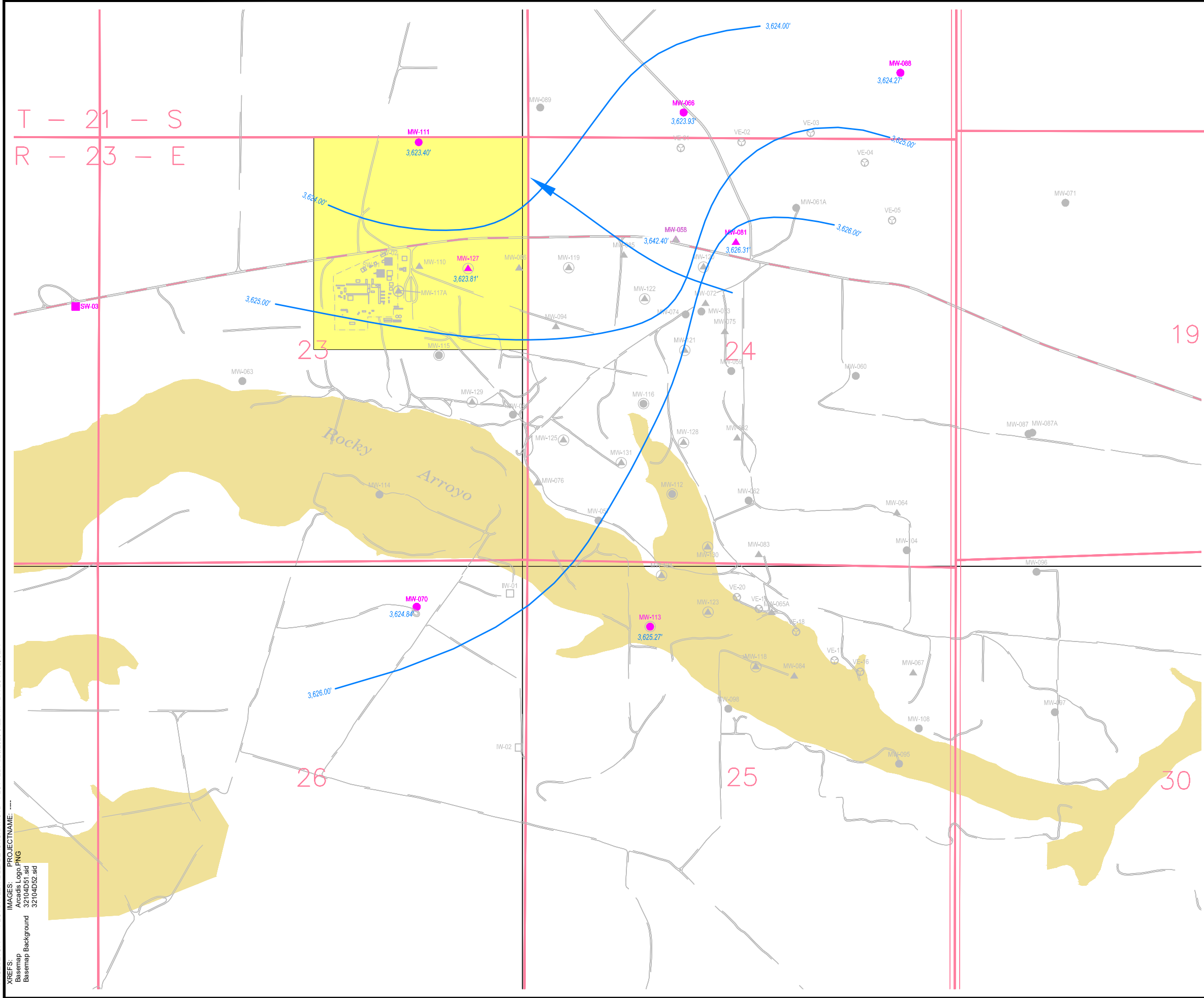
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PLOT: STYLE: TABLE: BLACK GRAY CTB PLOTTED: 4/23/2025 3:58 PM BY: LOVING, JEFF
XREFS: PROJECTNAME: INDIAN BASIN REMEDIATION PROJECT
IMAGES: Basemap Background



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XREFS: Basemap Basemap Background
IMAGES: Arcadis Logo.PNG 32104D51.sld 32104D52.sld
PROJECTNAME: ---



C:\Users\JDLoving\ARCADIS\Environmental CAD Team - BIM\380 - OneDrive Sync Location\AUS-99999999-00X - INDIAN BASIN_EDDY CO. NM10_WIP101_ARC_ENV202501-DWG14-LOWER QUEEN GW CONTOURS 0624.dwg LAYOUT: 4. SAVED: 4/23/2025 3:21 PM ACADVER: 24.2S (LMS TECH)
PAGESETUP: --- PLOTSTYLETABLE: BLACKGRAY.CTB PLOTTED: 4/23/2025 3:22 PM BY: LOVING, JEFF
XREFS: IMAGES: PROJECTNAME: ---
Basemap Basemap Background 32104D51.sld 32104D52.sld



LEGEND

- MONITORING WELL
- PLUGGED MONITORING WELL
- RECOVERY WELL
- PLUGGED RECOVERY WELL
- PLUGGED INDUSTRIAL SUPPLY WELL
- PHASE II INFILL WELLS INSTALLED DURING AUGUST, 1999
- PLUGGED PHASE II INFILL WELL INSTALLED DURING AUGUST, 1999
- PLUGGED PHASE I INFILL WELL INSTALLED DURING JULY, 1999
- PLUGGED INFILTRATION WELL
- PLUGGED VAPOR EXTRACTION WELL
- 3,623.93' GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
- 3,626.00' GROUNDWATER ELEVATION CONTOUR LINE, CONTOUR INTERVAL = 2 FEET
- GROUNDWATER FLOW DIRECTION

BASE MAP PREPARED FROM MARTHA CREEK QUADRANGLE, NEW MEXICO U.S. GEOLOGICAL SURVEY 7½ MINUTE TOPOGRAPHIC SERIES, PUBLISHED 1978, @ A SCALE OF 1" = 2,000'.

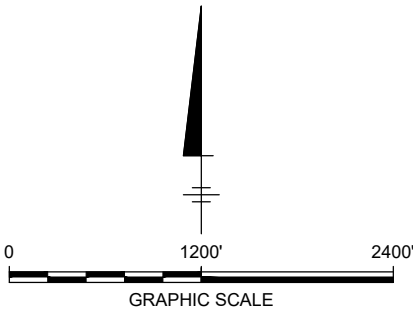
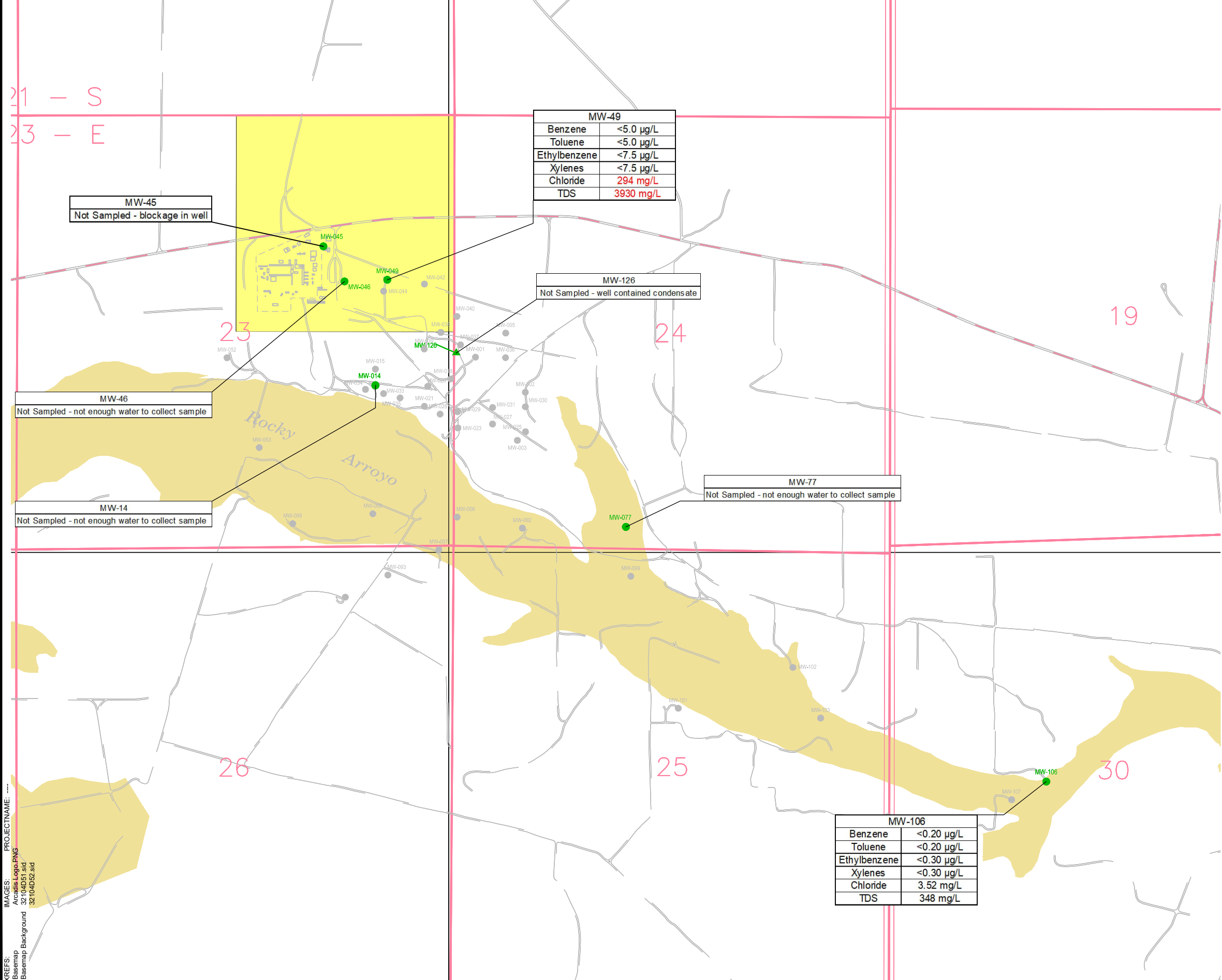
OXY USA WTP LIMITED PARTNERSHIP
EDDY COUNTY, NEW MEXICO
INDIAN BASIN GAS PLANT
2024 ANNUAL REPORT

LOWER QUEEN GROUNDWATER
ELEVATION CONTOURS
JUNE 2024



FIGURE
4

C:\Users\DLoving\ARCADIS\Environmental\CAD Team - BIM360 - OneDrive Sync Location\AUS-99999999-OXY_INDIAN BASIN_EDDY CO_NMI10_WIP101_ARC_ENV\202501-DWG5-SHALLOW ANALYTICAL 0624.dwg LAYOUT: 5 - SAVED: 4/23/2025 3:11 PM ACADVER: 24.25 (LMS TECH) PAGESETUP: PLOTSTYLETABLE: BLACKGRAY.CTB PLOTTED: 4/23/2025 3:36 PM BY: LOVING, JEFF



LEGEND

- MONITORING WELL
- PLUGGED MONITORING WELL
- ▲ RECOVERY WELL
- INDUSTRIAL SUPPLY WELL
- ⊙ PHASE II INFILL WELLS INSTALLED DURING AUGUST, 1999

MW-106	
Benzene	<0.20 µg/L
Toluene	<0.20 µg/L
Ethylbenzene	<0.30 µg/L
Xylenes	<0.30 µg/L
Chloride	3.52 mg/L
TDS	348 mg/L

WELL ID

CONCENTRATION (µg/L or mg/L)

CONSTITUENT

OCD Cleanup Goals/Regulatory Limits

Benzene	10 µg/L
Toluene	750 µg/L
Ethylbenzene	750 µg/L
Total Xylenes	620 µg/L
Chlorides	250 mg/L
Total Dissolved Solids	1,000 mg/L

Notes:

- OCD NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT, OIL CONSERVATION DIVISION
- mg/L MILLIGRAMS PER LITER
- µg/L MICROGRAMS PER LITER
- RED CONCENTRATIONS IN RED EXCEED THE OCD REGULATORY LIMITS

BASE MAP PREPARED FROM MARTHA CREEK QUADRANGLE, NEW MEXICO U.S. GEOLOGICAL SURVEY 7½ MINUTE TOPOGRAPHIC SERIES, PUBLISHED 1978, @ A SCALE OF 1" = 2,000'.

OXY USA WTP LIMITED PARTNERSHIP
EDDY COUNTY, NEW MEXICO
INDIAN BASIN GAS PLANT
2024 ANNUAL REPORT

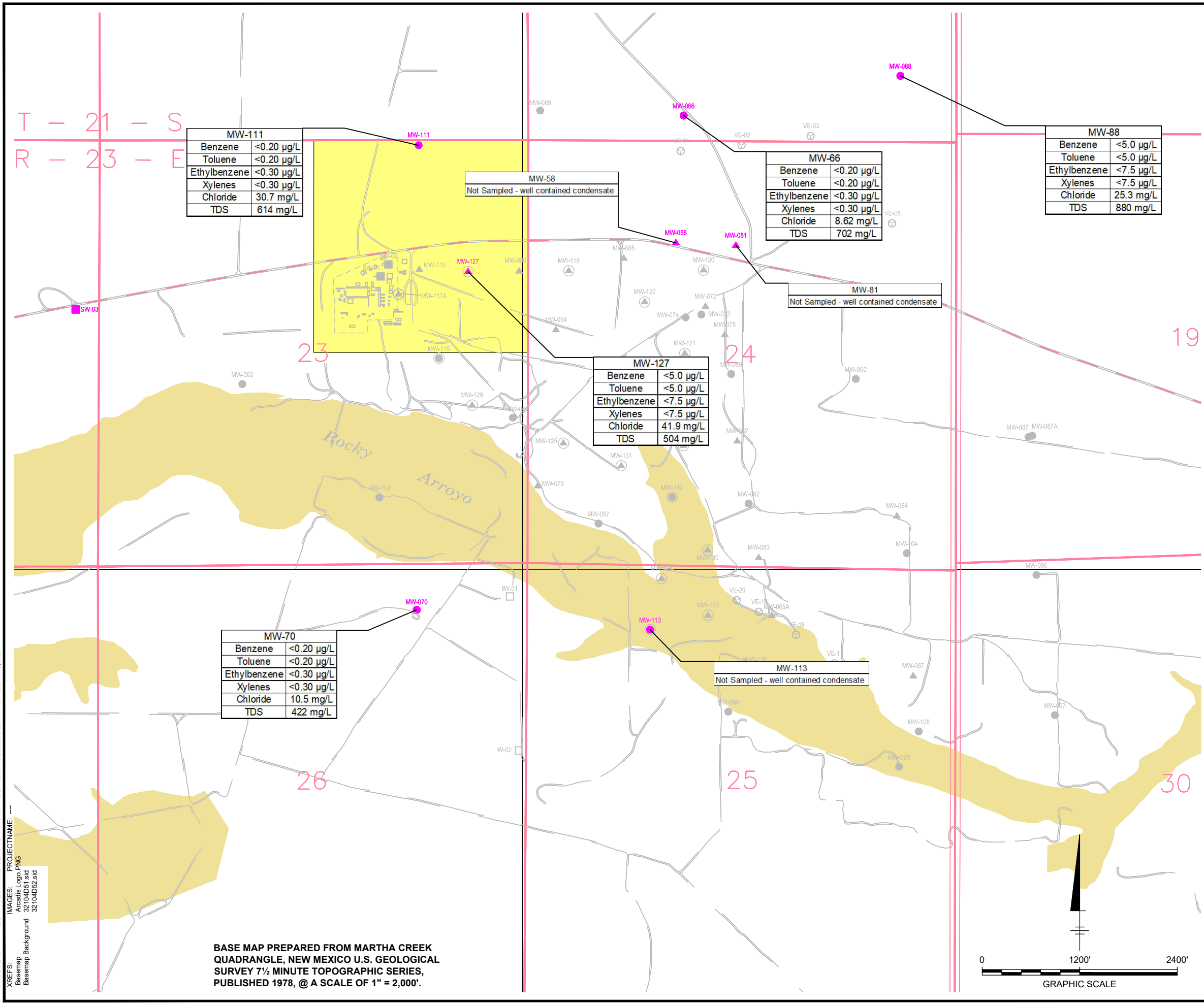
SHALLOW ZONE BTEX,
CHLORIDE, AND TDS
JUNE 2024



FIGURE

5

C:\Users\JDLoving\ARCADIS\Environmental CAD Team - BIM\360 - OneDrive Sync Location\ALUS-99999999-00X - INDIAN BASIN_EDDY CO_NM10_WIP101_ARC_ENV\202501-DWG6-LOWER QUEEN ANALYTICAL 0624.dwg LAYOUT: 6 SAVED: 4/23/2025 3:23 PM ACADVER: 24.2S (LMS TECH) PAGESETUP: --- PLOTSTYLETABLE: BLACKGRAY.CTB PLOTTED: 4/23/2025 3:23 PM BY: LOVING, JEFF



LEGEND

- MONITORING WELL
- PLUGGED MONITORING WELL
- ▲ RECOVERY WELL
- ▲ PLUGGED RECOVERY WELL
- PLUGGED INDUSTRIAL SUPPLY WELL
- PHASE II INFILL WELLS INSTALLED DURING AUGUST, 1999
- PLUGGED PHASE II INFILL WELL INSTALLED DURING AUGUST, 1999
- PLUGGED PHASE I INFILL WELL INSTALLED DURING JULY, 1999
- PLUGGED INFILTRATION WELL
- ⊗ PLUGGED VAPOR EXTRACTION WELL

MW-70		WELL ID
Benzene	<0.20 µg/L	CONCENTRATION (ug/L or mg/L)
Toluene	<0.20 µg/L	
Ethylbenzene	<0.30 µg/L	
Xylenes	<0.30 µg/L	
Chloride	10.5 mg/L	
TDS	422 mg/L	
		CONSTITUENT

OCD Cleanup Goals/Regulatory Limits

Benzene	10 µg/L
Toluene	750 µg/L
Ethylbenzene	750 µg/L
Total Xylenes	620 µg/L
Chlorides	250 mg/L
Total Dissolved Solids	1,000 mg/L

- Notes:
- OCD NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT, OIL CONSERVATION DIVISION
 - mg/L MILLIGRAMS PER LITER
 - µg/L MICROGRAMS PER LITER
 - RED CONCENTRATIONS IN RED EXCEED THE OCD REGULATORY LIMITS

OXY USA WTP LIMITED PARTNERSHIP
EDDY COUNTY, NEW MEXICO
INDIAN BASIN GAS PLANT
2024 ANNUAL REPORT

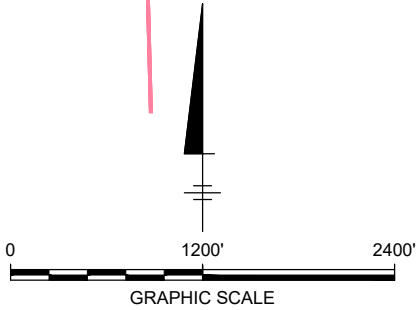
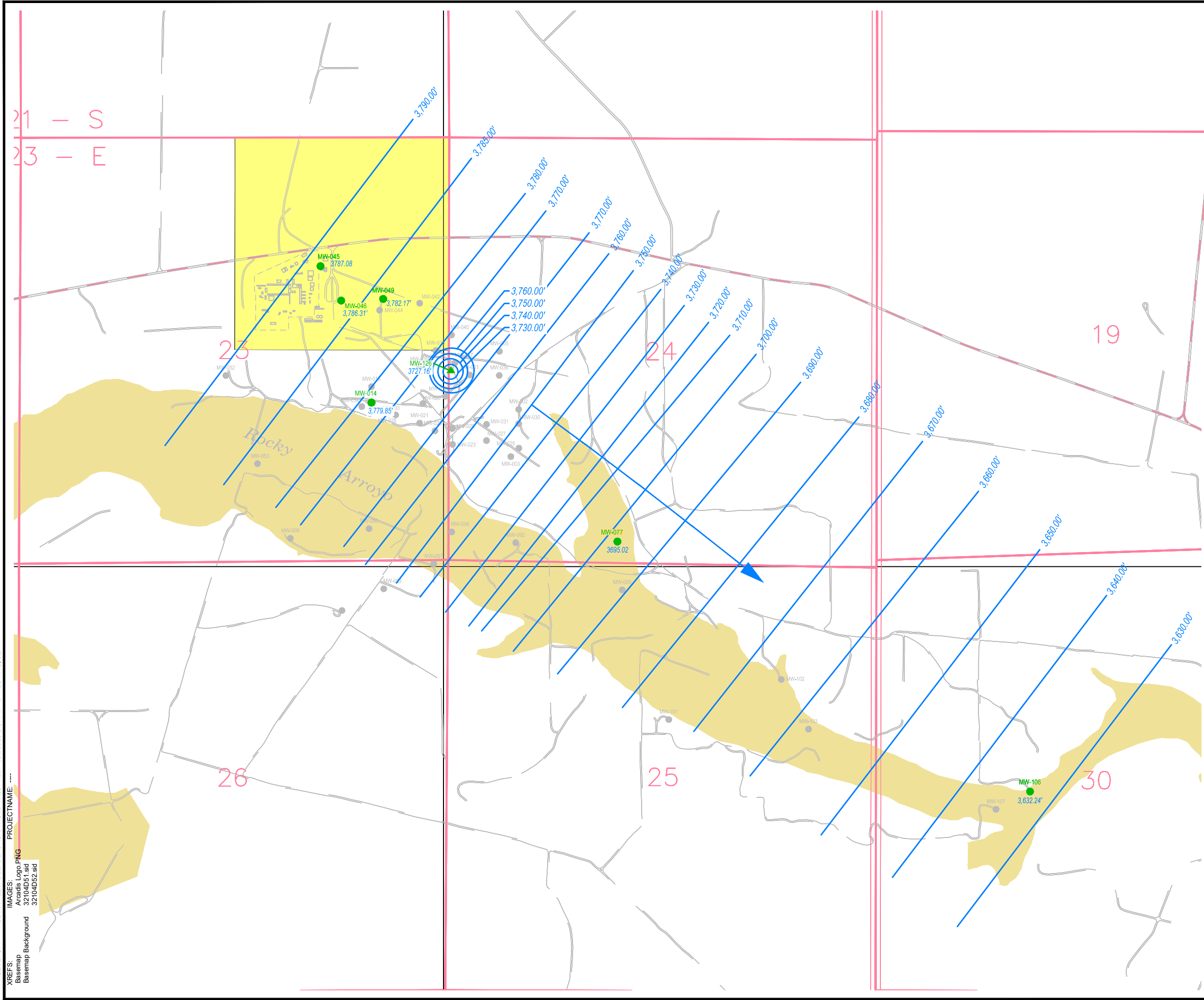
LOWER QUEEN BTEX,
CHLORIDE, AND TDS
JUNE 2024



FIGURE
6

BASE MAP PREPARED FROM MARTHA CREEK
QUADRANGLE, NEW MEXICO U.S. GEOLOGICAL
SURVEY 7½ MINUTE TOPOGRAPHIC SERIES,
PUBLISHED 1978, @ A SCALE OF 1" = 2,000'.

C:\Users\JDLoving\ARCADIS\Environmental CAD Team - BIM\360 - OneDrive Sync Location\AUS-99999999-OXY - INDIAN BASIN EDDY CO. NM\10_WIP\10T_ARC_ENV\202501-DWG\7-SHALLOW GW CONTOURS 124.dwg LAYOUT: 7 SAVED: 4/23/2025 3:12 PM ACADVER: 24.2S (LMS TECH)
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XREFS: Basemap Basemap Background
IMAGES: Arcadis Logo.PNG 32104D51.sld 32104D52.sld
PROJECTNAME: ---



LEGEND

- MONITORING WELL
- PLUGGED MONITORING WELL
- ⊙ PHASE II INFILL WELLS INSTALLED DURING AUGUST, 1999
- 3,632.24' GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
- DRY INDICATES WELL WAS DRY AT TIME OF GAUGING
- 3,780.00' GROUNDWATER ELEVATION CONTOUR LINE, CONTOUR INTERVAL = 10 FEET
- ➔ GROUNDWATER FLOW DIRECTION

BASE MAP PREPARED FROM MARTHA CREEK QUADRANGLE, NEW MEXICO U.S. GEOLOGICAL SURVEY 7½ MINUTE TOPOGRAPHIC SERIES, PUBLISHED 1978, @ A SCALE OF 1" = 2,000'.

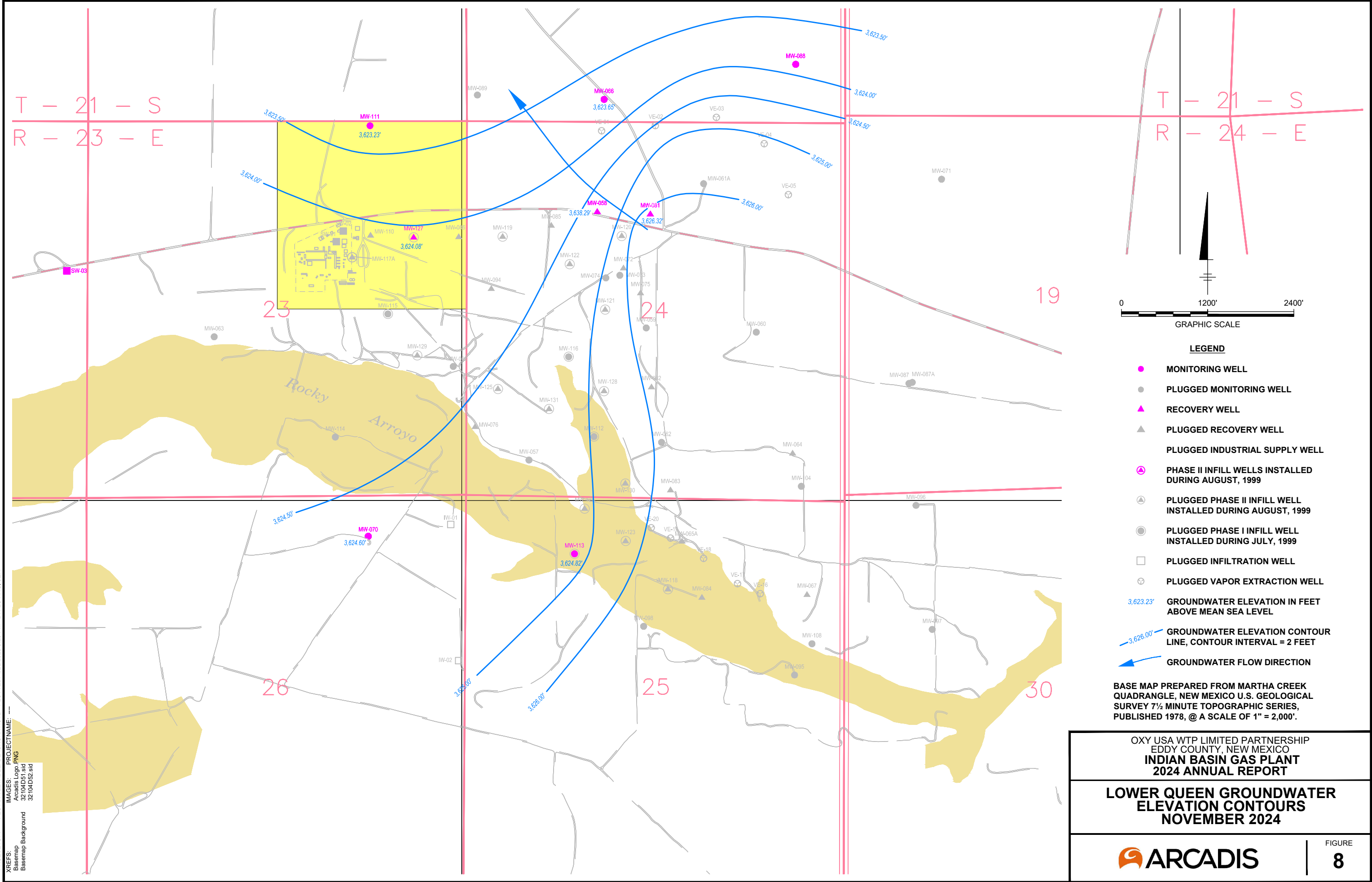
OXY USA WTP LIMITED PARTNERSHIP
EDDY COUNTY, NEW MEXICO
**INDIAN BASIN GAS PLANT
2024 ANNUAL REPORT**

**SHALLOW ZONE GROUNDWATER
ELEVATION CONTOURS
NOVEMBER 2024**



FIGURE
7

C:\Users\JDLoving\ARCADIS\Environmental CAD Team - BIM\380 - OneDrive Sync Location\AUS-99999999-0XY - INDIAN BASIN EDDY CO. NM10_WIP101_ARC_ENV202501-DWG08-LOWER QUEEN GW CONTOURS 1124.dwg LAYOUT: 8 SAVED: 4/23/2025 3:29 PM ACADVER: 24.2S (LMS TECH)
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APPENDIX A

Historic Groundwater Elevations



Appendix A

Historic Fluid Level Data

May 1991 - December 2024

OXY USA WTP Limited Partnership, Indian Basin Gas Plant, Eddy County, New Mexico

Page 1 of 16

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-14	12/1/1991	3803.61	9.68	0	3793.93
MW-14	10/1/1993	3803.61	22.55	0	3781.06
MW-14	1/1/1994	3803.61	22.78	0	3780.83
MW-14	1/27/1998	3803.61	22.36	0	3781.25
MW-14	6/16/1998	3803.61	22.88	0	3780.73
MW-14	4/19/1999	3803.61	23.74	0.24	3780.05
MW-14	1/5/2000	3803.61	22.22	0	3781.39
MW-14	4/26/2000	3803.61	22.74	0.03	3780.89
MW-14	9/27/2000	3803.61	23.40	0.09	3780.28
MW-14	4/16/2001	3803.61	22.15	0.01	3781.47
MW-14	10/29/2001	3803.61	21.98	0.08	3781.69
MW-14	4/15/2002	3803.61	22.81	0	3780.80
MW-14	10/14/2002	3803.61	18.17	0	3785.44
MW-14	04/15/2003	3803.61	21.87	0	3781.74
MW-14	10/14/2003	3803.61	22.19	0	3781.42
MW-14	4/5/2004	3803.61	23.45	0.01	3780.17
MW-14	10/5/2004	3803.61	18.36	0	3785.25
MW-14	4/19/2005	3803.61	21.55	0	3782.06
MW-14	10/24/2005	3803.61	20.69	0	3782.92
MW-14	4/18/2006	3803.61	22.69	0	3780.92
MW-14	10/11/2006	3803.61	19.20	0	3784.41
MW-14	4/16/2007	3803.61	22.1	0	3781.51
MW-14	10/22/2007	3803.61	21.15	0	3782.46
MW-14	5/27/2009	3803.61	23.75	0	3779.86
MW-14	6/21/2010	3803.61	24.04	0	3779.57
MW-14	12/28/2010	3803.61	22.31	0	3781.30
MW-14	6/30/2011	3803.61	24.00	0	3779.61
MW-14	12/15/2011	3803.61	23.85	0	3779.76
MW-14	6/27/2012	3803.61	22.73	0	3780.88
MW-14	12/1/2012	3803.61	23.40	0	3780.21
MW-14	6/1/2013	3803.61	22.73	0	3780.88
MW-14	12/12/2013	3803.61	20.82	0	3782.79
MW-14	6/25/2014	3803.61	20.96	0	3782.65
MW-14	12/16/2014	3803.61	20.42	0	3783.19
MW-14	4/28/2015	3803.61	21.91	0	3781.70
MW-14	10/13/2015	3803.61	19.89	0	3783.72
MW-14	5/24/2016	3803.61	22.70	0	3780.91
MW-14	12/6/2016	3803.61	21.85	0	3781.76
MW-14	7/12/2017	3803.61	23.39	0	3780.22
MW-14	12/17/2017	3803.61	23.10	0	3780.51
MW-14	7/8/2018	3803.61	23.79	0	3779.82
MW-14	11/13/2018	3803.61	21.78	0	3781.83
MW-14	6/24/2019	3803.61	23.13	0	3780.48
MW-14	12/10/2019	3803.61	21.15	0	3782.46
MW-14	6/10/2020	3803.61	22.02	0	3781.59
MW-14	11/2/2020	3803.61	23.71	0	3779.90
MW-14	6/22/2021	3803.61	23.85	0	3779.76
MW-14	12/6/2021	3803.61	21.56	0	3782.05
MW-14	6/23/2022	3803.61	22.96	0	3780.65
MW-14	11/1/2022	3803.61	22.15	0	3781.46
MW-14	6/21/2023	3803.61	23.13	0	3780.48
MW-14	11/16/2023	3803.61	23.92	0	3779.69
MW-14	6/11/2024	3803.61	23.22	0	3780.39
MW-14	11/21/2024	3803.61	23.76	0	3779.85
MW-45	12/1/1991	3808.68	13.91	0	3794.77
MW-45	7/1/1993	3808.68	21.49	0	3787.19
MW-45	10/1/1993	3808.68	21.47	0	3787.21
MW-45	1/1/1994	3808.68	21.54	0	3787.14
MW-45	4/1/1994	3808.68	22.64	0	3786.04
MW-45	7/1/1994	3808.68	21.85	0	3786.83
MW-45	10/1/1994	3808.68	21.52	0	3787.16
MW-45	1/1/1995	3808.68	21.78	0	3786.90
MW-45	4/1/1995	3808.68	22.13	0	3786.55
MW-45	7/1/1995	3808.68	22.13	0	3786.55
MW-45	1/5/2000	3808.68	18.88	0	3789.80

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

Appendix A

Historic Fluid Level Data

May 1991 - December 2024

Page 2 of 16

OXY USA WTP Limited Partnership, Indian Basin Gas Plant, 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	4/26/2000	3808.68	19.19	0	3789.49
MW-45	9/27/2000	3808.68	19.19	0	3789.49
MW-45	4/16/2001	3808.68	18.39	0	3790.29
MW-45	10/29/2001	3808.68	18.53	0	3790.15
MW-45	4/15/2002	3808.68	18.75	0	3789.93
MW-45	10/14/2002	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	4/5/2004	3808.68	21.69	0	3786.99
MW-45	10/5/2004	3808.68	14.09	0	3794.59
MW-45	4/19/2005	3808.68	16.94	0	3791.74
MW-45	10/24/2005	3808.68	20.09	0	3788.59
MW-45	4/18/2006	3808.68	20.72	0	3787.96
MW-45	10/11/2006	3808.68	16.40	0	3792.28
MW-45	4/16/2007	3808.68	19.98	0	3788.70
MW-45	10/22/2007	3808.68	15.95	0	3792.73
MW-45	5/27/2009	3808.68	21.56	0	3787.12
MW-45	6/21/2010	3808.68	21.52	0	3787.16
MW-45	12/28/2010	3808.68	20.05	0	3788.63
MW-45	6/30/2011	3808.68	19.47	0	3789.21
MW-45	12/15/2011	3808.68	20.20	0	3788.48
MW-45	6/27/2012	3808.68	21.47	0	3787.21
MW-45	12/1/2012	3808.68	21.22	0	3787.46
MW-45	6/1/2013	3808.68	21.47	0	3787.21
MW-45	12/12/2013	3808.68	18.77	0	3789.91
MW-45	6/25/2014	3808.68	16.12	0	3792.56
MW-45	12/16/2014	3808.68	16.95	0	3791.73
MW-45	4/28/2015	3808.68	19.90	0	3788.78
MW-45	10/13/2015	3808.68	19.79	0	3788.89
MW-45	5/24/2016	3808.68	22.14	0	3786.54
MW-45	12/6/2016	3808.68	21.06	0	3787.62
MW-45	7/12/2017	3808.68	21.45	0	3787.23
MW-45	12/17/2017	3808.68	20.11	0	3788.57
MW-45	7/8/2018	3808.68	21.54	0	3787.14
MW-45	11/13/2018	3808.68	21.00	0	3787.68
MW-45	6/24/2019	3808.68	19.20	0	3789.48
MW-45	12/10/2019	3808.68	18.95	0	3789.73
MW-45	6/10/2020	3808.68	20.06	0	3788.62
MW-45	11/2/2020	3808.68	21.53	0	3787.15
MW-45	6/22/2021	3808.68	21.68	0	3787.00
MW-45	12/6/2021	3809.68	19.22	0	3789.46
MW-45	6/23/2022	3809.68	21.57	0	3788.11
MW-45	11/1/2022	3809.68	20.05	0	3789.63
MW-45	6/21/2023	3809.68	21.36	0	3788.32
MW-45	11/16/2023	3809.68	21.16	0	3788.52
MW-45	6/11/2024	3809.68	Dry	0	--
MW-45	11/21/2024	3809.68	21.60	0	3788.08
MW-46	10/1/1993	3805.54	19.87	0	3785.67
MW-46	1/1/1994	3805.54	19.42	0	3786.12
MW-46	4/1/1994	3805.54	19.59	0	3785.95
MW-46	10/1/1994	3805.54	19.20	0	3786.34
MW-46	4/1/1995	3805.54	19.55	0	3785.99
MW-46	7/1/1995	3805.54	19.55	0	3785.99
MW-46	1/16/1996	3805.54	19.48	0	3786.06
MW-46	4/19/1996	3805.54	19.52	0	3786.02
MW-46	7/15/1996	3805.54	19.41	0	3786.13
MW-46	10/13/1996	3805.54	15.73	0	3789.81
MW-46	2/4/1997	3805.54	18.22	0	3787.32
MW-46	4/28/1997	3805.54	16.93	0	3788.61
MW-46	7/14/1997	3805.54	17.15	0	3788.39
MW-46	10/13/1997	3805.54	18.01	0	3787.53
MW-46	1/27/1998	3805.54	17.54	0	3788.00
MW-46	4/27/1998	3805.54	18.34	0	3787.20
MW-46	6/16/1998	3805.54	18.69	0	3786.85
MW-46	10/10/1998	3805.54	17.82	0	3787.72
MW-46	1/27/1999	3805.54	16.91	0	3788.63

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Appendix A

Historic Fluid Level Data

May 1991 - December 2024

OXY USA WTP Limited Partnership, Indian Basin Gas Plant, Eddy County, New Mexico

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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-46	4/19/1999	3805.54	17.44	0	3788.10
MW-46	1/5/2000	3805.54	16.76	0	3788.78
MW-46	4/26/2000	3805.54	17.17	0	3788.37
MW-46	9/27/2000	3805.54	17.42	0	3788.12
MW-46	4/16/2001	3805.54	16.68	0	3788.86
MW-46	10/29/2001	3805.54	16.79	0	3788.75
MW-46	4/15/2002	3805.54	17.49	0	3788.05
MW-46	10/14/2002	3805.54	17.83	0	3787.71
MW-46	04/15/2003	3805.54	19.38	0	3786.16
MW-46	10/14/2003	3805.54	19.62	0	3785.92
MW-46	4/5/2004	3805.54	19.63	0	3785.91
MW-46	10/5/2004	3805.54	13.05	0	3792.49
MW-46	4/19/2005	3805.54	16.27	0	3789.27
MW-46	10/24/2005	3805.54	19.38	0	3786.16
MW-46	4/18/2006	3805.54	19.35	0	3786.19
MW-46	10/11/2006	3805.54	15.74	0	3789.80
MW-46	4/16/2007	3805.54	19.34	0	3786.20
MW-46	10/22/2007	3805.54	15.67	0	3789.87
MW-46	5/27/2009	3805.54	19.38	0	3786.16
MW-46	6/21/2010	3805.54	19.42	0	3786.12
MW-46	12/28/2010	3805.54	18.27	0	3787.27
MW-46	6/30/2011	3805.54	19.54	0	3786.00
MW-46	12/15/2011	3805.54	18.35	0	3787.19
MW-46	6/27/2012	3805.54	19.33	0	3786.21
MW-46	12/1/2012	3805.54	19.33	0	3786.21
MW-46	6/1/2013	3805.54	19.33	0	3786.21
MW-46	12/12/2013	3805.54	16.88	0	3788.66
MW-46	6/25/2014	3805.54	15.67	0	3789.87
MW-46	12/16/2014	3805.54	16.31	0	3789.23
MW-46	4/28/2015	3805.54	18.54	0	3787.00
MW-46	10/13/2015	3805.54	17.98	0	3787.56
MW-46	5/24/2016	3805.54	19.45	0	3786.09
MW-46	12/6/2016	3805.54	19.81	0	3785.73
MW-46	7/12/2017	3805.54	19.25	0	3786.29
MW-46	12/17/2017	3805.54	18.15	0	3787.39
MW-46	7/8/2018	3805.54	19.31	0	3786.23
MW-46	11/13/2018	3805.54	18.70	0	3786.84
MW-46	6/24/2019	3805.54	18.24	0	3787.30
MW-46	12/10/2019	3805.54	17.00	0	3788.54
MW-46	6/10/2020	3805.54	18.05	0	3787.49
MW-46	11/2/2020	3805.54	19.53	0	3786.01
MW-46	6/22/2021	3805.54	19.35	0	3786.19
MW-46	12/6/2021	3805.54	17.80	0	3787.74
MW-46	6/23/2022	3805.54	19.44	0	3786.10
MW-46	11/1/2022	3805.54	17.62	0	3787.92
MW-46	6/21/2023	3805.54	19.25	0	3786.29
MW-46	11/16/2023	3805.54	19.27	0	3786.27
MW-46	6/11/2024	3805.54	19.43	0	3786.11
MW-46	11/21/2024	3805.54	19.23	0	3786.31
MW-49	12/1/1991	3805.61	16.60	0	3789.01
MW-49	7/1/1993	3805.61	21.98	0	3783.63
MW-49	10/1/1993	3805.61	21.93	0	3783.68
MW-49	1/1/1994	3805.61	22.27	0	3783.34
MW-49	4/1/1994	3805.61	22.64	0	3782.97
MW-49	7/1/1994	3805.61	22.73	0	3782.88
MW-49	10/1/1994	3805.61	22.30	0	3783.31
MW-49	1/1/1995	3805.61	22.56	0	3783.05
MW-49	4/1/1995	3805.61	22.94	0	3782.67
MW-49	7/1/1995	3805.61	22.94	0	3782.67
MW-49	10/1/1995	3805.61	22.68	0	3782.93
MW-49	1/16/1996	3805.61	22.55	0	3783.06
MW-49	4/19/1996	3805.61	22.59	0	3783.02
MW-49	7/15/1996	3805.61	22.76	0	3782.85
MW-49	10/13/1996	3805.61	19.54	0	3786.07
MW-49	2/3/1997	3805.61	20.66	0	3784.95
MW-49	3/18/1997	3805.61	20.99	0	3784.62

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Appendix A

Historic Fluid Level Data

May 1991 - December 2024

OXY USA WTP Limited Partnership, Indian Basin Gas Plant, Eddy County, New Mexico

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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-49	4/28/1997	3805.61	20.70	0	3784.91
MW-49	7/14/1997	3805.61	20.31	0	3785.30
MW-49	10/13/1997	3805.61	21.01	0	3784.60
MW-49	1/27/1998	3805.61	21.08	0	3784.53
MW-49	4/27/1998	3805.61	21.34	0	3784.27
MW-49	6/16/1998	3805.61	21.35	0	3784.26
MW-49	10/9/1998	3805.61	22.52	0	3783.09
MW-49	1/27/1999	3805.61	20.50	0	3785.11
MW-49	4/19/1999	3805.61	20.81	0	3784.80
MW-49	1/5/2000	3805.61	20.07	0	3785.54
MW-49	4/26/2000	3805.61	20.30	0	3785.31
MW-49	9/27/2000	3805.61	20.52	0	3785.09
MW-49	4/16/2001	3805.61	20.03	0	3785.58
MW-49	10/29/2001	3805.61	19.96	0	3785.65
MW-49	4/15/2002	3805.61	19.76	0	3785.85
MW-49	10/14/2002	3805.61	20.56	0	3785.05
MW-49	04/15/2003	3805.61	22.08	0	3783.53
MW-49	10/14/2003	3805.61	22.52	0	3783.09
MW-49	4/5/2004	3805.61	22.79	0	3782.82
MW-49	10/5/2004	3805.61	18.33	0	3787.28
MW-49	4/19/2005	3805.61	18.23	0	3787.38
MW-49	10/24/2005	3805.61	21.01	0	3784.60
MW-49	4/18/2006	3805.61	22.29	0	3783.32
MW-49	10/11/2006	3805.61	20.49	0	3785.12
MW-49	4/16/2007	3805.61	21.43	0	3784.18
MW-49	10/22/2007	3805.61	18.81	0	3786.80
MW-49	5/27/2009	3805.61	22.35	0	3783.26
MW-49	6/21/2010	3805.61	22.33	0	3783.28
MW-49	12/28/2010	3805.61	20.92	0	3784.69
MW-49	6/30/2011	3805.61	21.95	0	3783.66
MW-49	12/15/2011	3805.61	21.11	0	3784.50
MW-49	6/27/2012	3805.61	22.40	0	3783.21
MW-49	12/1/2012	3805.61	22.12	0	3783.49
MW-49	6/1/2013	3805.61	22.40	0	3783.21
MW-49	12/12/2013	3805.61	20.05	0	3785.56
MW-49	6/25/2014	3805.61	19.42	0	3786.19
MW-49	12/16/2014	3805.61	17.49	0	3788.12
MW-49	4/28/2015	3805.61	20.21	0	3785.40
MW-49	10/13/2015	3805.61	20.95	0	3784.66
MW-49	5/24/2016	3805.61	21.41	0	3784.20
MW-49	12/6/2016	3805.61	21.62	0	3783.99
MW-49	7/12/2017	3805.61	22.40	0	3783.21
MW-49	12/17/2017	3805.61	21.08	0	3784.53
MW-49	7/8/2018	3805.61	22.31	0	3783.30
MW-49	11/13/2018	3805.61	22.59	0	3783.02
MW-49	6/24/2019	3805.61	22.38	0	3783.23
MW-49	12/10/2019	3805.61	21.22	0	3784.39
MW-49	6/10/2020	3805.61	20.94	0	3784.67
MW-49	11/2/2020	3805.61	22.36	0	3783.25
MW-49	6/22/2021	3805.61	23.02	0	3782.59
MW-49	12/6/2021	3805.61	20.08	0	3785.53
MW-49	6/23/2022	3805.61	21.94	0	3783.67
MW-49	11/1/2022	3805.61	21.36	0	3784.25
MW-49	6/21/2023	3805.61	21.97	0	3783.64
MW-49	11/16/2023	3805.61	22.60	0	3783.01
MW-49	6/11/2024	3805.61	23.21	0	3782.40
MW-49	11/21/2024	3805.61	23.44	0	3782.17
MW-77	1/1/1995	3775.48	80.03	0	3695.45
MW-77	4/1/1995	3775.48	80.04	0	3695.44
MW-77	7/1/1995	3775.48	80.04	0	3695.44
MW-77	10/1/1995	3775.48	79.70	0	3695.78
MW-77	1/16/1996	3775.48	79.84	0	3695.64
MW-77	4/17/1996	3775.48	78.95	0	3696.53
MW-77	7/16/1996	3775.48	79.42	0	3696.06
MW-77	10/14/1996	3775.48	80.02	0	3695.46
MW-77	2/4/1997	3775.48	D	0	--

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Appendix A

Historic Fluid Level Data

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OXY USA WTP Limited Partnership, Indian Basin Gas Plant, Eddy County, New Mexico

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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-77	4/29/1997	3775.48	80.35	0	3695.13
MW-77	7/15/1997	3775.48	80.31	0	3695.17
MW-77	10/14/1997	3775.48	78.92	0	3696.56
MW-77	1/28/1998	3775.48	77.00	0	3698.48
MW-77	4/27/1998	3775.48	78.48	0	3697.00
MW-77	6/16/1998	3775.48	75.30	0	3700.18
MW-77	10/10/1998	3775.48	79.84	0	3695.64
MW-77	1/27/1999	3775.48	76.41	0	3699.07
MW-77	4/19/1999	3775.48	77.50	0	3697.98
MW-77	1/5/2000	3775.48	79.36	0	3696.12
MW-77	4/26/2000	3775.48	78.57	0	3696.91
MW-77	9/27/2000	3775.48	78.86	0	3696.62
MW-77	4/16/2001	3775.48	79.91	0	3695.57
MW-77	10/29/2001	3775.48	79.72	0	3695.76
MW-77	4/15/2002	3775.48	80.42	0	3695.06
MW-77*	10/14/2002	3775.48	57.95	0	3717.53
MW-77	04/15/2003	3775.48	69.95	0	3705.53
MW-77	10/14/2003	3775.48	73.98	0	3701.50
MW-77	4/5/2004	3775.48	79.88	0	3695.60
MW-77	10/5/2004	3775.48	63.37	0	3712.11
MW-77	4/19/2005	3775.48	67.06	0	3708.42
MW-77	10/24/2005	3775.48	63.89	0	3711.59
MW-77	4/18/2006	3775.48	80.43	0	3695.05
MW-77	10/11/2006	3775.48	78.89	0	3696.59
MW-77	4/17/2007	3775.48	76.32	0	3699.16
MW-77	10/22/2007	3775.48	73.36	0	3702.12
MW-77	5/27/2009	3775.48	D	0	--
MW-77	6/21/2010	3775.48	80.57	0	3694.91
MW-77	12/28/2010	3775.48	80.37	0	3695.11
MW-77	6/30/2011	3775.48	80.47	0	3695.01
MW-77	12/15/2011	3775.48	80.55	0	3694.93
MW-77	6/27/2012	3775.48	81.00	0	3694.48
MW-77	12/1/2012	3775.48	80.51	0	3694.97
MW-77	6/1/2013	3775.48	81.00	0	3694.48
MW-77	12/12/2013	3775.48	78.76	0	3696.72
MW-77	6/25/2014	3775.48	71.32	0	3704.16
MW-77	12/16/2014	3775.48	80.45	0	3695.03
MW-77	4/28/2015	3775.48	80.61	0	3694.87
MW-77	10/13/2015	3775.48	80.63	0	3694.85
MW-77	5/24/2016	3775.48	80.47	0	3695.01
MW-77	12/6/2016	3775.48	80.50	0	3694.98
MW-77	7/12/2017	3775.48	80.55	0	3694.93
MW-77	12/17/2017	3775.48	80.41	0	3695.07
MW-77	7/8/2018	3775.48	80.49	0	3694.99
MW-77	11/13/2018	3775.48	80.30	0	3695.18
MW-77	6/24/2019	3775.48	80.26	0	3695.22
MW-77	12/10/2019	3775.48	72.72	0	3702.76
MW-77	6/10/2020	3775.48	80.50	0	3694.98
MW-77	11/2/2020	3775.48	70.62	0	3704.86
MW-77	6/22/2021	3775.48	80.54	0	3694.94
MW-77	12/6/2021	3775.48	77.20	0	3698.28
MW-77	6/23/2022	3775.48	76.04	0	3699.44
MW-77	11/1/2022	3775.48	80.52	0	3694.96
MW-77	6/21/2023	3775.48	Dry	0	--
MW-77	11/16/2023	3775.48	81.86	0	3693.62
MW-77	6/11/2024	3775.48	80.54	0	3694.94
MW-77	11/21/2024	3775.48	80.46	0	3695.02
MW-106	2/4/1997	3721.97	87.97	0	3634.00
MW-106	4/28/1997	3721.97	87.59	0	3634.38
MW-106	7/15/1997	3721.97	87.63	0	3634.34
MW-106	10/13/1997	3721.97	88.75	0	3633.22
MW-106	1/28/1998	3721.97	88.97	0	3633.00
MW-106	4/27/1998	3721.97	89.36	0	3632.61
MW-106	6/15/1998	3721.97	89.63	0	3632.34
MW-106	10/10/1998	3721.97	89.61	0	3632.36
MW-106	1/27/1999	3721.97	86.55	0	3635.42

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Appendix A

Historic Fluid Level Data

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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-106	4/19/1999	3721.97	89.58	0	3632.39
MW-106	1/5/2000	3721.97	89.05	0	3632.92
MW-106	4/26/2000	3721.97	89.31	0	3632.66
MW-106	9/27/2000	3721.97	87.98	0	3633.99
MW-106	4/16/2001	3721.97	88.81	0	3633.16
MW-106	10/29/2001	3721.97	89.05	0	3632.92
MW-106	4/15/2002	3721.97	89.05	0	3632.92
MW-106	10/14/2002	3721.97	87.40	0	3634.57
MW-106	04/15/2003	3721.97	88.91	0	3633.06
MW-106	10/14/2003	3721.97	89.94	0	3632.03
MW-106	4/5/2004	3721.97	89.34	0	3632.63
MW-106	10/5/2004	3721.97	75.78	0	3646.19
MW-106	4/19/2005	3721.97	88.54	0	3633.43
MW-106	10/24/2005	3721.97	88.47	0	3633.50
MW-106	4/18/2006	3721.97	89.71	0	3632.26
MW-106	10/11/2006	3721.97	87.09	0	3634.88
MW-106	4/17/2007	3721.97	89.4	0	3632.57
MW-106	10/22/2007	3721.97	88.64	0	3633.33
MW-106	5/27/2009	3721.97	D	--	--
MW-106	6/21/2010	3721.97	90.06	0	3631.91
MW-106	12/28/2010	3721.97	89.47	0	3632.50
MW-106	6/30/2011	3721.97	89.93	0	3632.04
MW-106	12/15/2011	3721.97	90.02	0	3631.95
MW-106	6/27/2012	3721.97	87.75	0	3634.22
MW-106	12/1/2012	3721.97	89.71	0	3632.26
MW-106	6/1/2013	3721.97	87.50	0	3634.47
MW-106	12/12/2013	3721.97	88.62	0	3633.35
MW-106	6/25/2014	3721.97	88.27	0	3633.70
MW-106	12/16/2014	3721.97	88.44	0	3633.53
MW-106	4/28/2015	3721.97	89.03	0	3632.94
MW-106	10/13/2015	3721.97	88.01	0	3633.96
MW-106	5/24/2016	3721.97	89.76	0	3632.21
MW-106	12/6/2016	3721.97	89.93	0	3632.04
MW-106	7/12/2017	3721.97	89.79	0	3632.18
MW-106	12/17/2017	3721.97	89.72	0	3632.25
MW-106	7/8/2018	3721.97	89.68	0	3632.29
MW-106	11/13/2018	3721.97	88.54	0	3633.43
MW-106	6/24/2019	3721.97	88.10	0	3633.87
MW-106	12/10/2019	3721.97	88.20	0	3633.77
MW-106	6/10/2020	3721.97	89.50	0	3632.47
MW-106	11/2/2020	3721.97	89.11	0	3632.86
MW-106	6/22/2021	3721.97	88.46	0	3633.51
MW-106	12/6/2021	3721.97	88.79	0	3633.18
MW-106	6/23/2022	3721.97	88.60	0	3633.37
MW-106	11/1/2022	3721.97	89.35	0	3632.62
MW-106	6/21/2023	3721.97	89.34	0	3632.63
MW-106	11/16/2023	3721.97	88.67	0	3633.30
MW-106	6/11/2024	3721.97	85.52	0	3636.45
MW-106	11/21/2024	3721.97	89.73	0	3632.24
MW-126	1/5/2000	3795.58	53.08	0	3742.50
MW-126	4/26/2000	3795.58	54.03	0	3741.55
MW-126	9/27/2000	3795.58	60.29	0	3735.29
MW-126	4/16/2001	3795.58	54.25	0.52	3741.71
MW-126	10/29/2001	3795.58	57.82	2.1	3739.29
MW-126	4/15/2002	3795.58	56.95	2.23	3740.26
MW-126	10/14/2002	3795.58	54.03	2.57	3743.43
MW-126	04/15/2003	3796.28	63.65	3.96	3735.52
MW-126	10/14/2003	3796.28	68.01	0	3728.27
MW-126	4/5/2004	3796.28	70.04	0	3726.24
MW-126	10/5/2004	3796.28	48.01	0.01	3748.28
MW-126	4/19/2005	3796.28	50.63	0.25	3745.83
MW-126	10/24/2005	3796.28	51.78	0	3744.50
MW-126	4/18/2006	3796.28	66.79	0	3729.49
MW-126	10/11/2006	3796.28	51.76	0.08	3744.58
MW-126	4/17/2007	3796.28	62.92	0.6	3732.92
MW-126	10/22/2007	3796.28	56.30	0	3739.98

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Appendix A

Historic Fluid Level Data

May 1991 - December 2024

OXY USA WTP Limited Partnership, Indian Basin Gas Plant, Eddy County, New Mexico

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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-126	5/27/2009	3796.28	69.95	0.05	3726.37
MW-126	6/21/2010	3796.28	70.40	0.23	3726.05
MW-126	12/28/2010	3796.28	66.12	0.56	3730.57
MW-126	6/30/2011	3796.28	69.55	0.45	3727.06
MW-126	12/15/2011	3796.28	70.21	0.22	3726.23
MW-126	6/27/2012	3796.28	67.72	0.29	3728.77
MW-126	12/1/2012	3796.28	71.19	0	3725.10
MW-126	6/1/2013	3796.28	72.00	0	3724.28
MW-126	12/12/2013	3796.28	53.52	0.11	3742.84
MW-126	6/25/2014	3796.28	63.63	0.08	3732.71
MW-126	12/16/2014	3796.28	44.65	0.19	3751.77
MW-126	4/28/2015	3796.28	52.46	0.21	3743.97
MW-126	10/13/2015	3796.28	65.03	0.27	3731.45
MW-126	5/24/2016	3796.28	66.50	0.27	3729.98
MW-126	12/6/2016	3796.28	62.04	0.69	3734.74
MW-126	7/12/2017	3796.28	69.83	0.3	3726.67
MW-126	12/17/2017	3796.28	66.64	0.21	3729.79
MW-126	7/8/2018	3796.28	69.72	0.2	3726.71
MW-126	11/13/2018	3796.28	67.79	0.16	3728.61
MW-126	6/24/2019	3796.28	69.73	0.20	3726.70
MW-126	12/10/2019	3796.28	53.72	0.12	3742.65
MW-126	6/10/2020	3796.28	65.52	0.12	3730.85
MW-126	11/2/2020	3796.28	68.32	0.17	3728.08
MW-126	6/22/2021	3796.28	70.36	0.10	3725.99
MW-126	12/6/2021	3796.28	48.96	0.12	3747.41
MW-126	6/23/2022	3796.28	88.93	0.44	3707.67
MW-126	11/1/2022	3796.28	63.69	0.15	3732.70
MW-126	6/21/2023	3796.28	D	0.00	--
MW-126	11/16/2023	3796.28	68.91	0.00	3727.37
MW-126	6/11/2024	3796.28	Dry	0.00	--
MW-126	11/21/2024	3796.28	69.12	0.00	3727.16

Lower Queen Wells

MW-58	7/16/1991	3824.07	197.91	0	3626.16
MW-58	8/21/1991	3824.07	193.76	0	3630.31
MW-58	9/18/1991	3824.07	193.26	0	3630.81
MW-58	10/22/1991	3824.07	194.45	0	3629.62
MW-58	11/15/1991	3824.07	194.77	0	3629.30
MW-58	1/16/1996	3824.07	D	--	--
MW-58	7/16/1996	3824.07	D	--	--
MW-58	10/14/1996	3824.07	196.01	0.01	3628.06
MW-58	2/4/1997	3824.07	203.00	0	3621.07
MW-58	4/28/1997	3824.07	204.14	0	3619.93
MW-58	7/15/1997	3824.07	197.66	0	3626.41
MW-58	10/1/1997	3824.07	199.20	0.3	3625.08
MW-58	10/9/1997	3824.07	199.52	0.67	3625.03
MW-58	10/14/1997	3824.07	196.10	0	3627.97
MW-58	1/28/1998	3824.07	198.55	0	3625.52
MW-58	5/28/1998	3824.07	205.14	0	3618.93
MW-58	10/11/1998	3824.07	200.48	0	3623.59
MW-58	1/27/1999	3824.07	D	--	--
MW-58	4/19/1999	3824.07	217.17	0	3606.90
MW-58	1/5/2000	3824.07	210.57	0	3613.50
MW-58	4/26/2000	3824.07	223.51	0	3600.56
MW-58	9/27/2000	3824.07	220.18	0	3603.89
MW-58	4/16/2001	3824.07	114.83	0	3709.24
MW-58	10/29/2001	3824.07	177.31	0	3644.41
MW-58	4/15/2002	3824.07	201.92	0	3622.15
MW-58	10/14/2002	3824.07	199.69	0	3624.38
MW-58	2/13/2003	3824.07	201.08	0	3622.99
MW-58	3/10/2003	3824.07	202.20	0	3621.87
MW-58	04/15/2003	3824.07	201.17	0	3622.90
MW-58	5/15/2003	3824.07	201.82	0	3622.25
MW-58	6/24/2003	3824.07	201.71	0	3622.36
MW-58	7/15/2003	3824.07	202.89	0	3621.18
MW-58	8/8/2003	3824.07	201.98	0	3622.09
MW-58	9/12/2005	3824.07	202.20	0	3621.87

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Appendix A
 Historic Fluid Level Data
 May 1991 - December 2024
 OXY USA WTP Limited Partnership, Indian Basin Gas Plant, 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	10/14/2003	3824.07	202.19	0	3621.88
MW-58	11/7/2003	3824.07	202.29	0	3621.78
MW-58	12/4/2003	3824.07	202.26	0	3621.81
MW-58	1/8/2004	3824.07	202.38	0.1	3621.76
MW-58	2/12/2004	3824.07	202.47	0	3621.60
MW-58	3/25/2004	3824.07	202.49	0	3621.58
MW-58	4/5/2004	3824.07	202.32	0	3621.75
MW-58	5/27/2004	3824.07	201.37	0.01	3622.71
MW-58	6/17/2004	3824.07	202.00	0	3622.07
MW-58	7/15/2004	3824.07	202.08	0	3621.99
MW-58	8/19/2004	3824.07	202.98	0.06	3621.13
MW-58	9/9/2004	3824.07	201.74	0	3622.33
MW-58	10/5/2004	3824.07	198.82	0	3625.25
MW-58	11/19/2004	3824.07	199.30	0.28	3624.97
MW-58	12/7/2004	3824.07	202.14		3621.93
MW-58	1/11/2005	3824.07	200.70	0.58	3623.79
MW-58	2/8/2005	3824.07	200.56	0	3623.51
MW-58	3/8/2005	3824.07	200.87	0	3623.20
MW-58	4/19/2005	3824.07	207.19	0	3616.88
MW-58	5/9/2005	3824.07	207.19	0	3616.88
MW-58	6/21/2005	3824.07	200.04	0	3624.03
MW-58	7/19/2005	3824.07	199.94	0	3624.13
MW-58	8/8/2005	3824.07	200.03	0	3624.04
MW-58	9/20/2005	3824.07	199.02	0	3625.05
MW-58	10/24/2005	3824.07	199.84	0.46	3624.57
MW-58	4/18/2006	3824.07	200.05	0	3624.02
MW-58	10/11/2006	3824.07	199.04	0.2	3625.18
MW-58	4/16/2007	3824.07	200.49	0.52	3623.20
MW-58	10/22/2007	3824.07	199.65	0	3624.42
MW-58	5/27/2009	3824.07	200.73	5.26	3627.18
MW-58	6/21/2010	3824.07	200.74	0.11	3623.41
MW-58	12/28/2010	3824.07	200.71	0.40	3623.65
MW-58	6/30/2011	3824.07	198.01	2.29	3627.73
MW-58	12/15/2011	3824.07	201.30	0.13	3622.86
MW-58	6/27/2012	3824.07	197.05	2.35	3628.74
MW-58	12/1/2012	3824.07	201.80	0.63	3622.73
MW-58	6/1/2013	3824.07	202.38	0.53	3622.08
MW-58	12/12/2013	3824.07	201.15	0.31	3623.15
MW-58	6/25/2014	3824.07	201.56	0	3622.51
MW-58	12/16/2014	3824.07	199.18	0	3624.89
MW-58	4/28/2015	3824.07	199.71	0.02	3624.37
MW-58*	10/13/2015	3824.07	160.00	0	3664.07
MW-58*	5/24/2016	3824.07	195.31	0.001	3628.76
MW-58*	12/6/2016	3824.07	130.48	0.001	3693.59
MW-58*	7/12/2017	3824.07	189.15	0.001	3634.92
MW-58	12/17/2017	3824.07	200.16	0	3623.91
MW-58	7/8/2018	3824.07	184.53	0	3639.54
MW-58	11/13/2018	3824.07	200.56	0	3623.51
MW-58	6/24/2019	3824.07	200.50	0.3	3623.79
MW-58	12/10/2019	3824.07	199.40	0.2	3624.82
MW-58	6/10/2020	3824.07	199.35	0.01	3624.73
MW-58	11/2/2020	3824.07	200.90	0.07	3623.22
MW-58	6/22/2021	3824.07	200.99	0.22	3623.24
MW-58	12/6/2021	3824.07	195.97	0.01	3628.11
MW-58	6/23/2022	3824.07	201.02	0.15	3623.16
MW-58	11/1/2022	3824.07	198.92	0	3625.15
MW-58	6/21/2023	3824.07	198.58	0	3625.49
MW-58	11/16/2023	3824.07	197.82	0	3626.25
MW-58	6/11/2024	3824.07	181.67	0	3642.40
MW-58	11/21/2024	3824.07	185.78	0	3638.29
MW-66	8/21/1991	3828.98	196.77	0	3632.21
MW-66	9/18/1991	3828.98	198.73	0	3630.25
MW-66	10/22/1991	3828.98	199.70	0	3629.28
MW-66	11/15/1991	3828.98	199.88	0	3629.10
MW-66	3/1/1992	3828.98	200.37	0	3628.61
MW-66	4/1/1992	3828.98	200.25	0	3628.73

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Appendix A

Historic Fluid Level Data

May 1991 - December 2024

OXY USA WTP Limited Partnership, Indian Basin Gas Plant, Eddy County, New Mexico

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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-66	5/1/1992	3828.98	195.25	0	3633.73
MW-66	6/1/1992	3828.98	196.08	0	3632.90
MW-66	7/1/1992	3828.98	197.35	0	3631.63
MW-66	8/1/1992	3828.98	197.77	0	3631.21
MW-66	9/1/1992	3828.98	198.17	0	3630.81
MW-66	10/1/1992	3828.98	198.40	0	3630.58
MW-66	11/1/1992	3828.98	198.76	0	3630.22
MW-66	12/1/1992	3828.98	198.98	0	3630.00
MW-66	1/1/1993	3828.98	199.10	0	3629.88
MW-66	2/1/1993	3828.98	199.23	0	3629.75
MW-66	3/1/1993	3828.98	199.49	0	3629.49
MW-66	4/1/1993	3828.98	199.38	0	3629.60
MW-66	5/1/1993	3828.98	199.63	0	3629.35
MW-66	6/1/1993	3828.98	199.59	0	3629.39
MW-66	7/1/1993	3828.98	199.82	0	3629.16
MW-66	8/1/1993	3828.98	199.78	0	3629.20
MW-66	9/1/1993	3828.98	200.01	0	3628.97
MW-66	10/1/1993	3828.98	200.09	0	3628.89
MW-66	11/1/1993	3828.98	200.35	0	3628.63
MW-66	12/1/1993	3828.98	200.42	0	3628.56
MW-66	1/1/1994	3828.98	200.33	0	3628.65
MW-66	2/1/1994	3828.98	201.39	0	3627.59
MW-66	3/1/1994	3828.98	201.44	0	3627.54
MW-66	4/1/1994	3828.98	201.36	0	3627.62
MW-66	5/1/1994	3828.98	201.26	0	3627.72
MW-66	7/1/1994	3828.98	200.91	0	3628.07
MW-66	8/1/1994	3828.98	199.86	0	3629.12
MW-66	9/1/1994	3828.98	200.66	0	3628.32
MW-66	10/1/1994	3828.98	200.83	0	3628.15
MW-66	12/1/1994	3828.98	201.96	0	3627.02
MW-66	1/1/1995	3828.98	201.04	0	3627.94
MW-66	4/1/1995	3828.98	202.26	0	3626.72
MW-66	7/1/1995	3828.98	201.59	0	3627.39
MW-66	10/1/1995	3828.98	201.62	0	3627.36
MW-66	1/16/1996	3828.98	200.89	0	3628.09
MW-66	4/17/1996	3828.98	202.29	0	3626.69
MW-66	7/16/1996	3828.98	202.45	0	3626.53
MW-66	10/13/1996	3828.98	200.80	0	3628.18
MW-66	2/4/1997	3828.98	202.60	0	3626.38
MW-66	4/28/1997	3828.98	202.84	0	3626.14
MW-66	7/14/1997	3828.98	202.72	0	3626.26
MW-66	9/30/1997	3828.98	204.00	0	3624.98
MW-66	10/9/1997	3828.98	204.20	0	3624.78
MW-66	10/13/1997	3828.98	203.77	0	3625.21
MW-66	1/27/1998	3828.98	203.79	0	3625.19
MW-66	4/27/1998	3828.98	204.09	0	3624.89
MW-66	5/28/1998	3828.98	204.18	0	3624.80
MW-66	6/15/1998	3828.98	204.37	0	3624.61
MW-66	10/10/1998	3828.98	204.86	0	3624.12
MW-66	1/27/1999	3828.98	205.05	0	3623.93
MW-66	4/19/1999	3828.98	205.10	0	3623.88
MW-66	1/5/1999	3828.98	205.13	0	3623.85
MW-66	4/26/2000	3828.98	205.41	0	3623.57
MW-66	9/27/2000	3828.98	205.78	0	3623.20
MW-66	4/16/2001	3828.98	205.59	0	3623.39
MW-66	10/29/2001	3828.98	206.04	0	3622.94
MW-66	4/15/2002	3828.98	205.98	0	3623.00
MW-66	10/14/2002	3828.98	199.87	0	3629.11
MW-66	04/15/2003	3828.98	205.39	0	3623.59
MW-66	10/14/2003	3828.98	206.41	0	3622.57
MW-66	4/5/2004	3828.98	206.65	0	3622.33
MW-66	10/5/2004	3828.98	203.05	0	3625.93
MW-66	4/19/2005	3828.98	205.48	0	3623.50
MW-66	10/24/2005	3828.98	204.97	0	3624.01
MW-66	4/18/2006	3828.98	205.44	0	3623.54
MW-66	10/11/2006	3828.98	204.64	0	3624.34
MW-66	4/16/2007	3828.98	205.51	0	3623.47

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Historic Fluid Level Data

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OXY USA WTP Limited Partnership, Indian Basin Gas Plant, Eddy County, New Mexico

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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-66	10/22/2007	3828.98	205.29	0	3623.69
MW-66	5/27/2009	3828.98	206.47	0	3622.51
MW-66	6/21/2010	3828.98	206.82	0	3622.16
MW-66	12/28/2010	3828.98	206.46	0	3622.52
MW-66	6/30/2011	3828.98	206.94	0	3622.04
MW-66	12/15/2011	3828.98	207.46	0	3621.52
MW-66	6/27/2012	3828.98	208.46	0	3620.52
MW-66	12/1/2012	3828.98	208.19	0	3620.79
MW-66	6/1/2013	3828.98	208.46	0	3620.52
MW-66	12/12/2013	3828.98	207.25	0	3621.73
MW-66	6/25/2014	3828.98	208.02	0	3620.96
MW-66	12/16/2014	3828.98	205.98	0	3623.00
MW-66	4/28/2015	3828.98	206.73	0	3622.25
MW-66	10/13/2015	3828.98	206.90	0	3622.08
MW-66	5/24/2016	3828.98	207.28	0	3621.70
MW-66	12/6/2016	3828.98	207.91	0	3621.07
MW-66	7/12/2017	3828.98	207.28	0	3621.70
MW-66	12/17/2017	3828.98	206.75	0	3622.23
MW-66	7/8/2018	3828.98	209.58	0	3619.40
MW-66	11/13/2018	3828.98	206.90	0	3622.08
MW-66	6/24/2019	3828.98	206.78	0	3622.20
MW-66	12/10/2019	3828.98	205.96	0	3623.02
MW-66	6/10/2020	3828.98	206.12	0	3622.86
MW-66	11/2/2020	3828.98	206.36	0	3622.62
MW-66	6/22/2021	3828.98	206.87	0	3622.11
MW-66	12/6/2021	3828.98	206.41	0	3622.57
MW-66	6/23/2022	3828.98	203.99	0	3624.99
MW-66	11/1/2022	3828.98	204.00	0	3624.98
MW-66	6/21/2023	3828.98	204.34	0	3624.64
MW-66	11/16/2023	3828.98	204.39	0	3624.59
MW-66	6/11/2024	3828.98	205.05	0	3623.93
MW-66	11/21/2024	3828.98	205.33	0	3623.65
MW-70	9/18/1991	3822.57	191.59	0	3630.98
MW-70	10/22/1991	3822.57	191.68	0	3630.89
MW-70	11/15/1991	3822.57	192.20	0	3630.37
MW-70	3/1/1992	3822.57	192.74	0	3629.83
MW-70	4/1/1992	3822.57	192.62	0	3629.95
MW-70	5/1/1992	3822.57	189.97	0	3632.60
MW-70	6/1/1992	3822.57	188.42	0	3634.15
MW-70	7/1/1992	3822.57	188.87	0	3633.70
MW-70	8/1/1992	3822.57	189.54	0	3633.03
MW-70	9/1/1992	3822.57	190.02	0	3632.55
MW-70	10/1/1992	3822.57	190.48	0	3632.09
MW-70	11/1/1992	3822.57	190.86	0	3631.71
MW-70	12/1/1992	3822.57	191.17	0	3631.40
MW-70	1/1/1993	3822.57	191.39	0	3631.18
MW-70	2/1/1993	3822.57	191.54	0	3631.03
MW-70	3/1/1993	3822.57	191.77	0	3630.80
MW-70	4/1/1993	3822.57	191.80	0	3630.77
MW-70	5/1/1993	3822.57	192.09	0	3630.48
MW-70	6/1/1993	3822.57	192.18	0	3630.39
MW-70	7/1/1993	3822.57	192.32	0	3630.25
MW-70	8/1/1993	3822.57	192.30	0	3630.27
MW-70	9/1/1993	3822.57	192.53	0	3630.04
MW-70	10/1/1993	3822.57	192.65	0	3629.92
MW-70	11/1/1993	3822.57	192.91	0	3629.66
MW-70	12/1/1993	3822.57	192.96	0	3629.61
MW-70	1/1/1994	3822.57	192.99	0	3629.58
MW-70	2/1/1994	3822.57	194.02	0	3628.55
MW-70	3/1/1994	3822.57	194.00	0	3628.57
MW-70	4/1/1994	3822.57	193.19	0	3629.38
MW-70	5/1/1994	3822.57	193.86	0	3628.71
MW-70	7/1/1994	3822.57	193.59	0	3628.98
MW-70	8/1/1994	3822.57	193.09	0	3629.48
MW-70	9/1/1994	3822.57	193.17	0	3629.40
MW-70	10/1/1994	3822.57	193.38	0	3629.19

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Appendix A

Historic Fluid Level Data

May 1991 - December 2024

OXY USA WTP Limited Partnership, Indian Basin Gas Plant, Eddy County, New Mexico

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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-70	12/1/1994	3822.57	194.58	0	3627.99
MW-70	1/1/1995	3822.57	192.83	0	3629.74
MW-70	4/1/1995	3822.57	194.11	0	3628.46
MW-70	7/1/1995	3822.57	194.19	0	3628.38
MW-70	10/1/1995	3822.57	194.19	0	3628.38
MW-70	1/16/1996	3822.57	194.68	0	3627.89
MW-70	4/17/1996	3822.57	194.94	0	3627.63
MW-70	7/15/1996	3822.57	194.70	0	3627.87
MW-70	10/13/1996	3822.57	193.98	0	3628.59
MW-70	2/3/1997	3822.57	194.47	0	3628.10
MW-70	4/28/1997	3822.57	195.01	0	3627.56
MW-70	7/14/1997	3822.57	195.44	0	3627.13
MW-70	10/1/1997	3822.57	196.20	0	3626.37
MW-70	10/13/1997	3822.57	196.05	0	3626.52
MW-70	10/29/1997	3822.57	196.24	0.01	3626.33
MW-70	11/4/1997	3822.57	196.35	0	3626.22
MW-70	11/12/1997	3822.57	196.34	0	3626.23
MW-70	11/19/1997	3822.57	196.36	0.01	3626.21
MW-70	11/24/1997	3822.57	196.36	0	3626.21
MW-70	12/10/1997	3822.57	196.47	0	3626.10
MW-70	1/27/1998	3822.57	196.22	0	3626.35
MW-70	2/25/1998	3822.57	196.45	0	3626.12
MW-70	4/27/1998	3822.57	196.48	0	3626.09
MW-70	5/28/1998	3822.57	196.91	0	3625.66
MW-70	6/15/1998	3822.57	196.74	0	3625.83
MW-70	10/9/1998	3822.57	197.27	0	3625.30
MW-70	1/27/1999	3822.57	199.24	0	3623.33
MW-70	4/19/1999	3822.57	197.40	0	3625.17
MW-70	1/5/2000	3822.57	197.73	0	3624.84
MW-70	4/26/2000	3822.57	197.71	0	3624.86
MW-70	9/27/2000	3822.57	198.02	0	3624.55
MW-70	4/16/2001	3822.57	198.34	0	3624.23
MW-70	10/29/2001	3822.57	198.30	0	3624.27
MW-70	4/15/2002	3822.57	198.85	0	3623.72
MW-70	10/14/2002	3822.57	196.95	0	3625.62
MW-70	04/15/2003	3822.57	198.12	0	3624.45
MW-70	10/14/2003	3822.57	199.14	0	3623.43
MW-70	4/5/2004	3822.57	199.41	0	3623.16
MW-70	10/5/2004	3822.57	197.30	0	3625.27
MW-70	4/19/2005	3822.57	197.70	0	3624.87
MW-70	10/24/2005	3822.57	197.24	0	3625.33
MW-70	4/18/2006	3822.57	198.46	0	3624.11
MW-70	10/11/2006	3822.57	196.99	0	3625.58
MW-70	4/17/2007	3822.57	198.51	0	3624.06
MW-70	10/22/2007	3822.57	198.03	0	3624.54
MW-70	5/27/2009	3822.57	199.45	0	3623.12
MW-70	6/21/2010	3822.57	199.54	0	3623.03
MW-70	12/28/2010	3822.57	199.13	0	3623.44
MW-70	6/30/2011	3822.57	199.75	0	3622.82
MW-70	12/15/2011	3822.57	204.65	0	3617.92
MW-70	6/27/2012	3822.57	201.46	0	3621.11
MW-70	12/1/2012	3822.57	200.14	0	3622.43
MW-70	6/1/2013	3822.57	200.49	0	3622.08
MW-70	12/12/2013	3822.57	NM	NM	NM
MW-70	6/25/2014	3822.57	201.74	0	3620.83
MW-70	12/16/2014	3822.57	198.48	0	3624.09
MW-70	4/28/2015	3822.57	199.29	0	3623.28
MW-70	10/13/2015	3822.57	199.69	0	3622.88
MW-70	5/24/2016	3822.57	200.21	0	3622.36
MW-70	12/6/2016	3822.57	199.86	0	3622.71
MW-70	7/12/2017	3822.57	200.27	0	3622.30
MW-70	12/17/2017	3822.57	199.79	0	3622.78
MW-70	7/8/2018	3822.57	200.17	0	3622.40
MW-70	11/13/2018	3822.57	199.47	0	3623.10
MW-70	6/24/2019	3822.57	199.63	0	3622.94
MW-70	12/10/2019	3822.57	199.04	0	3623.53
MW-70	6/10/2020	3822.57	199.04	0	3623.53

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Appendix A

Historic Fluid Level Data

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OXY USA WTP Limited Partnership, Indian Basin Gas Plant, Eddy County, New Mexico

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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-70	11/2/2020	3822.57	199.17	0	3623.40
MW-70	6/22/2021	3822.57	199.73	0	3622.84
MW-70	12/6/2021	3822.57	195.12	0	3627.45
MW-70	6/23/2022	3822.57	196.55	0	3626.02
MW-70	11/1/2022	3822.57	196.52	0	3626.05
MW-70	6/21/2023	3822.57	196.99	0	3625.58
MW-70	11/16/2023	3822.57	197.26	0	3625.31
MW-70	6/11/2024	3822.57	197.73	0	3624.84
MW-70	11/21/2024	3822.57	197.97	0	3624.60
MW-81	10/1/1995	3817.03	195.77	2.74	3623.26
MW-81	1/16/1996	3817.03	199.04	4.29	3621.12
MW-81	4/17/1996	3817.03	204.35	9.95	3619.94
MW-81	7/16/1996	3817.03	204.26	9.37	3619.61
MW-81	10/13/1996	3817.03	202.11	8.49	3621.11
MW-81	2/4/1997	3817.03	197.25	2.11	3621.32
MW-81	4/28/1997	3817.03	204.40	9.15	3619.30
MW-81	7/14/1997	3817.03	196.19	1.45	3621.89
MW-81	10/9/1997	3817.03	200.02	0.02	3617.02
MW-81	10/14/1997	3817.03	200.96	0.06	3616.11
MW-81	10/29/1997	3817.03	202.44	1.44	3615.64
MW-81	11/4/1997	3817.03	200.92	0	3616.11
MW-81	11/12/1997	3817.03	200.95	0.25	3616.26
MW-81	11/19/1997	3817.03	200.94	0.01	3616.09
MW-81	11/24/1997	3817.03	200.81	0	3616.22
MW-81	12/10/1997	3817.03	200.85	0	3616.18
MW-81	1/6/1998	3817.03	199.35	0	3617.68
MW-81	1/15/1998	3817.03	199.30	0	3617.73
MW-81	1/20/1998	3817.03	200.89	0.79	3616.71
MW-81	1/27/1998	3817.03	200.14	0.89	3617.53
MW-81	2/3/1998	3817.03	200.88	0.58	3616.57
MW-81	2/10/1998	3817.03	206.74	1.64	3611.48
MW-81	2/17/1998	3817.03	218.70	12.08	3607.14
MW-81	2/25/1998	3817.03	217.41	11.41	3607.94
MW-81	4/27/1998	3817.03	197.05	0	3619.98
MW-81	5/28/1998	3817.03	192.28	0	3624.75
MW-81	6/15/1998	3817.03	197.58	0	3619.45
MW-81	10/11/1998	3817.03	193.23	0	3623.80
MW-81	1/27/1999	3817.03	200.12	0	3616.91
MW-81	4/19/1999	3817.03	200.84	0	3616.19
MW-81	1/5/2000	3817.03	199.38	0	3617.65
MW-81	4/26/2000	3817.03	201.35	0	3615.68
MW-81	9/27/2000	3817.03	202.99	0	3614.04
MW-81	4/16/2001	3817.03	201.94	0	3615.09
MW-81	10/29/2001	3817.03	204.69	0	3609.04
MW-81	4/15/2002	3817.03	193.94	0	3623.09
MW-81	10/14/2002	3817.03	192.80	0	3624.23
MW-81	04/15/2003	3817.03	193.41	0	3623.62
MW-81	10/14/2003	3817.03	194.42	0	3622.61
MW-81	4/5/2004	3817.03	194.58	0	3622.45
MW-81	10/5/2004	3817.03	192.67	2.96	3626.52
MW-81	4/19/2005	3817.03	193.75	0	3623.28
MW-81	10/24/2005	3817.03	192.46	0	3624.57
MW-81	4/18/2006	3817.03	192.78	0	3624.25
MW-81	10/11/2006	3817.03	194.15	2.56	3624.75
MW-81	4/16/2007	3817.03	198.12	6.32	3614.30
MW-81	10/22/2007	3817.03	189.54	0	3627.49
MW-81	5/27/2009	3817.03	193.97	0.10	3623.13
MW-81	6/21/2010	3817.03	194.21	0.22	3622.98
MW-81	12/28/2010	3817.03	193.88	0.26	3623.34
MW-81	6/30/2011	3817.03	194.10	1.23	3623.83
MW-81	12/15/2011	3817.03	194.85	0.3	3622.40
MW-81	6/27/2012	3817.03	195.21	0.32	3622.05
MW-81	12/1/2012	3817.03	195.61	0.29	3621.63
MW-81	6/1/2013	3817.03	196.13	0.2	3621.05
MW-81	12/12/2013	3817.03	194.77	0.23	3622.43
MW-81	6/25/2014	3817.03	195.45	0.24	3621.76

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Historic Fluid Level Data

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OXY USA WTP Limited Partnership, Indian Basin Gas Plant, Eddy County, New Mexico

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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-81	12/16/2014	3817.03	183.04	0	3633.99
MW-81	4/28/2015	3817.03	193.71	0	3623.32
MW-81	10/13/2015	3817.03	189.27	0	3627.76
MW-81	5/24/2016	3817.03	194.25	0.001	3622.78
MW-81	12/6/2016	3817.03	193.80	0.001	3623.23
MW-81	7/12/2017	3817.03	195.00	0.73	3622.56
MW-81	12/17/2017	3817.03	193.76	0.001	3623.27
MW-81	7/8/2018	3817.03	192.53	0.001	3624.50
MW-81	11/13/2018	3817.03	193.89	0.001	3623.14
MW-81	6/24/2019	3817.03	194.48	0.69	3623.05
MW-81	12/10/2019	3817.03	193.50	0.45	3623.86
MW-81	6/10/2020	3817.03	193.62	-0.15	3623.30
MW-81	11/2/2020	3817.03	193.64	0.04	3623.42
MW-81	6/22/2021	3817.03	190.85	0.04	3626.21
MW-81	12/6/2021	3817.03	189.56	0.09	3627.54
MW-81	6/23/2022	3817.03	190.95	0.04	3626.11
MW-81	11/1/2022	3817.03	190.52	0	3626.51
MW-81	6/21/2023	3817.03	190.92	0.06	3626.15
MW-81	11/16/2023	3817.03	187.71	0	3629.32
MW-81	6/11/2024	3817.03	190.75	0.04	3626.31
MW-81	11/21/2024	3817.03	190.75	0.05	3626.32
MW-88	8/1/1996	3789.70	163.59	0	3626.11
MW-88	10/13/1996	3789.70	162.22	0	3627.48
MW-88	2/4/1997	3789.70	163.38	0	3626.32
MW-88	4/28/1997	3789.70	163.54	0	3626.16
MW-88	7/14/1997	3789.70	163.84	0	3625.86
MW-88	10/1/1997	3789.70	164.40	0	3625.30
MW-88	10/9/1997	3789.70	164.38	0	3625.32
MW-88	10/13/1997	3789.70	164.34	0	3625.36
MW-88	1/27/1998	3789.70	164.41	0	3625.29
MW-88	4/27/1998	3789.70	164.84	0	3624.86
MW-88	5/28/1998	3789.70	164.00	0	3625.70
MW-88	6/15/1998	3789.70	164.87	0	3624.83
MW-88	10/10/1998	3789.70	165.38	0	3624.32
MW-88	1/27/1999	3789.70	165.49	0	3624.21
MW-88	4/19/1999	3789.70	165.54	0	3624.16
MW-88	1/5/2000	3789.70	165.62	0	3624.08
MW-88	4/26/2000	3789.70	165.87	0	3623.83
MW-88	9/27/2000	3789.70	166.25	0	3623.45
MW-88	4/16/2001	3789.70	166.21	0	3623.49
MW-88	10/29/2001	3789.70	166.49	0	3623.21
MW-88	4/15/2002	3789.70	166.53	0	3623.17
MW-88	10/14/2002	3789.70	165.52	0	3624.18
MW-88	04/15/2003	3789.70	165.98	0	3623.72
MW-88	10/14/2003	3789.70	166.89	0	3622.81
MW-88	4/5/2004	3789.70	167.15	0	3622.55
MW-88	10/5/2004	3789.70	163.52	0	3626.18
MW-88	4/19/2005	3789.70	166.38	0	3623.32
MW-88	10/24/2005	3789.70	165.67	0	3624.03
MW-88	4/18/2006	3789.70	166.15	0	3623.55
MW-88	10/11/2006	3789.70	165.49	0	3624.21
MW-88	4/16/2007	3789.7	166.11	0	3623.59
MW-88	10/22/2007	3789.70	165.92	0	3623.78
MW-88	5/27/2009	3789.70	166.91	0	3622.79
MW-88	6/21/2010	3789.70	167.28	0	3622.42
MW-88	12/28/2010	3789.70	166.92	0	3622.78
MW-88	6/30/2011	3789.70	167.45	0	3622.25
MW-88	12/15/2011	3789.70	167.81	0	3621.89
MW-88	6/27/2012	3789.70	169.00	0	3620.70
MW-88	12/1/2012	3789.70	168.65	0	3621.05
MW-88	6/1/2013	3789.70	168.96	0	3620.74
MW-88	12/12/2013	3789.70	167.90	0	3621.80
MW-88	6/25/2014	3789.70	178.46	0	3611.24
MW-88	12/16/2014	3789.70	166.55	0	3623.15
MW-88	4/28/2015	3789.70	167.16	0	3622.54
MW-88	10/13/2015	3789.70	167.38	0	3622.32

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Appendix A

Historic Fluid Level Data

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OXY USA WTP Limited Partnership, Indian Basin Gas Plant, Eddy County, New Mexico

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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-88	5/24/2016	3789.70	167.77	0	3621.93
MW-88	12/6/2016	3789.70	167.37	0	3622.33
MW-88	7/12/2017	3789.70	167.68	0	3622.02
MW-88	12/17/2017	3789.70	167.20	0	3622.50
MW-88	7/8/2018	3789.70	167.54	0	3622.16
MW-88	11/13/2018	3789.70	167.30	0	3622.40
MW-88	6/24/2019	3789.70	167.14	0	3622.56
MW-88	12/10/2019	3789.70	166.49	0	3623.21
MW-88	6/10/2020	3789.70	166.58	0	3623.12
MW-88	11/2/2020	3789.70	167.06	0	3622.64
MW-88	6/22/2021	3789.70	167.28	0	3622.42
MW-88	12/6/2021	3789.70	163.56	0	3626.14
MW-88	6/23/2022	3789.70	166.88	0	3622.82
MW-88	11/1/2022	3789.70	164.59	0	3625.11
MW-88	6/21/2023	3789.70	164.88	0	3624.82
MW-88	11/16/2023	3789.70	164.92	0	3624.78
MW-88	6/11/2024	3789.70	165.43	0	3624.27
MW-88	11/21/2024	3789.70	165.79	0	3623.91
MW-111	6/19/1998	3824.44	200.24	0	3624.20
MW-111	10/10/1998	3824.44	200.89	0	3623.55
MW-111	1/27/1999	3824.44	201.24	0	3623.20
MW-111	4/19/1999	3824.44	201.26	0	3623.18
MW-111	1/5/2000	3824.44	201.21	0	3623.23
MW-111	4/26/2000	3824.44	201.48	0	3622.96
MW-111	9/27/2000	3824.44	201.66	0	3622.78
MW-111	4/16/2001	3824.44	201.74	0	3622.70
MW-111	10/29/2001	3824.44	201.64	0	3622.80
MW-111	4/15/2002	3824.44	201.83	0	3622.61
MW-111	10/14/2002	3824.44	200.52	0	3623.92
MW-111	04/15/2003	3824.44	201.21	0	3623.23
MW-111	10/14/2003	3824.44	202.50	0	3621.94
MW-111	4/5/2004	3824.44	202.54	0	3621.90
MW-111	10/5/2004	3824.44	200.25	0	3624.19
MW-111	4/19/2005	3824.44	201.09	0	3623.35
MW-111	10/24/2005	3824.44	200.61	0	3623.83
MW-111	4/18/2006	3824.44	201.17	0	3623.27
MW-111	10/11/2006	3824.44	200.06	0	3624.38
MW-111	4/16/2007	3824.44	201.28	0	3623.16
MW-111	10/22/2007	3824.44	201.24	0	3623.20
MW-111	5/27/2009	3824.44	202.50	0	3621.94
MW-111	6/21/2010	3824.44	202.92	0	3621.52
MW-111	12/28/2010	3824.44	202.48	0	3621.96
MW-111	6/30/2011	3824.44	202.94	0	3621.50
MW-111	12/15/2011	3824.44	203.51	0	3620.93
MW-111	6/27/2012	3824.44	204.58	0	3619.86
MW-111	12/1/2012	3824.44	204.20	0	3620.24
MW-111	6/1/2013	3824.44	204.58	0	3619.86
MW-111	12/12/2013	3824.44	202.99	0	3621.45
MW-111	6/25/2014	3824.44	204.10	0	3620.34
MW-111	12/16/2014	3824.44	201.65	0	3622.79
MW-111	4/28/2015	3824.44	202.64	0	3621.80
MW-111	10/13/2015	3824.44	202.92	0	3621.52
MW-111	5/24/2016	3824.44	203.21	0	3621.23
MW-111	12/6/2016	3824.44	202.95	0	3621.49
MW-111	7/12/2017	3824.44	203.34	0	3621.10
MW-111	12/17/2017	3824.44	202.95	0	3621.49
MW-111	7/8/2018	3824.44	203.27	0	3621.17
MW-111	11/13/2018	3824.44	203.14	0	3621.30
MW-111	6/24/2019	3824.44	203.20	0	3621.24
MW-111	12/10/2019	3824.44	203.85	0	3620.59
MW-111	6/10/2020	3824.44	202.15	0	3622.29
MW-111	11/2/2020	3824.44	202.62	0	3621.82
MW-111	6/22/2021	3824.44	202.92	0	3621.52
MW-111	12/6/2021	3824.44	198.32	0	3626.12
MW-111	6/23/2022	3824.44	199.70	0	3624.74
MW-111	11/1/2022	3824.44	199.82	0	3624.62

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

Appendix A
 Historic Fluid Level Data
 May 1991 - December 2024
 OXY USA WTP Limited Partnership, Indian Basin Gas Plant, 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	6/21/2023	3824.44	201.17	0	3623.27
MW-111	11/16/2023	3824.44	200.34	0	3624.10
MW-111	6/11/2024	3824.44	201.04	0	3623.40
MW-111	11/21/2024	3824.44	201.21	0	3623.23
MW-113	1/5/2000	3772.67	147.43	0	3625.24
MW-113	4/26/2000	3772.67	148.28	0.88	3625.03
MW-113	9/27/2000	3772.67	147.72	0	3624.95
MW-113	4/16/2001	3772.67	148.11	0.13	3624.65
MW-113	10/29/2001	3772.67	148.95	0.2	3623.87
MW-113	4/15/2002	3772.67	148.72	0.14	3624.05
MW-113	10/14/2002	3772.67	147.33	0	3625.34
MW-113	04/15/2003	3772.67	148.69	0.53	3624.37
MW-113	10/14/2003	3772.67	149.24	0.21	3623.58
MW-113	4/5/2004	3772.67	142.42	0.2	3630.40
MW-113	10/5/2004	3772.67	144.58	0	3628.09
MW-113	4/19/2005	3772.67	147.90	0	3624.77
MW-113	10/24/2005	3772.67	147.51	0	3625.16
MW-113	4/18/2006	3772.67	148.21	0	3624.46
MW-113	10/11/2006	3772.67	147.29	0	3625.38
MW-113	4/17/2007	3772.67	148.61	0.31	3623.83
MW-113	10/22/2007	3772.67	NA	--	--
MW-113	5/27/2009	3772.67	149.10	T	3623.57
MW-113	6/21/2010	3772.67	149.47	0.05	3623.16
MW-113	12/28/2010	3772.67	149.09	0.04	3623.55
MW-113	6/30/2011	3772.67	149.55	0.05	3623.08
MW-113	12/15/2011	3772.67	150.10	0.04	3622.54
MW-113	6/27/2012	3772.67	150.34	0.14	3622.23
MW-113	12/1/2012	3772.67	150.87	0.81	3622.39
MW-113	6/1/2013	3772.67	151.07	0.79	3622.18
MW-113	12/12/2013	3772.67	150.03	0	3622.64
MW-113	6/25/2014	3772.67	150.51	0.01	3622.15
MW-113	12/16/2014	3772.67	148.65	0	3624.02
MW-113	4/28/2015	3772.67	149.34	0	3623.33
MW-113	10/13/2015	3772.67	149.42	0	3623.25
MW-113	5/24/2016	3772.67	149.97	0.001	3622.70
MW-113	12/6/2016	3772.67	149.41	0.001	3623.26
MW-113	7/12/2017	3772.67	149.80	0.001	3622.87
MW-113	12/17/2017	3772.67	149.31	0.001	3623.36
MW-113	7/8/2018	3772.67	149.62	0.001	3623.05
MW-113	11/13/2018	3772.67	149.30	0.001	3623.37
MW-113	6/24/2019	3772.67	149.22	0	3623.45
MW-113	12/10/2019	3772.67	148.62	0	3624.05
MW-113	6/10/2020	3772.67	149.74	0	3622.93
MW-113	11/2/2020	3772.67	149.52	0	3623.15
MW-113	6/22/2021	3772.67	149.36	0	3623.31
MW-113	12/6/2021	3772.67	145.50	0.01	3627.16
MW-113	6/23/2022	3772.67	146.49	0	3626.18
MW-113	11/1/2022	3772.67	146.44	0	3626.23
MW-113	6/21/2023	3772.67	146.63	0	3626.04
MW-113	11/16/2023	3772.67	146.90	0	3625.77
MW-113	6/11/2024	3772.67	147.40	0	3625.27
MW-113	11/21/2024	3772.67	147.86	0.01	3624.80
MW-127	1/5/2000	3825.17	202.12	0	3623.05
MW-127	4/26/2000	3825.17	202.34	0.46	3623.17
MW-127	9/27/2000	3825.17	202.00	0	3623.17
MW-127	4/16/2001	3825.17	202.70	0.07	3622.52
MW-127	10/29/2001	3825.17	202.51	0.03	3622.68
MW-127	4/15/2002	3825.17	202.74	0	3622.43
MW-127	10/14/2002	3825.17	200.92	0	3624.25
MW-127	04/15/2003	3825.17	202.50	0	3622.67
MW-127	10/14/2003	3825.17	202.99	0	3622.18
MW-127	4/5/2004	3825.17	203.15	0	3622.02
MW-127	10/5/2004	3825.17	200.48	0	3624.69
MW-127	4/19/2005	3825.17	201.81	0	3623.36
MW-127	10/24/2005	3825.17	201.00	0	3624.17

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

Appendix A

Historic Fluid Level Data

May 1991 - December 2024

OXY USA WTP Limited Partnership, Indian Basin Gas Plant, Eddy County, New Mexico

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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-127	4/18/2006	3825.17	201.80	0	3623.37
MW-127	10/11/2006	3825.17	200.66	0	3624.51
MW-127	4/17/2007	3825.17	202.3	0	3622.87
MW-127	10/22/2007	3825.17	201.97	0	3623.20
MW-127	5/27/2009	3825.17	203.10	0	3622.07
MW-127	6/21/2010	3825.17	203.46	0	3621.71
MW-127	12/28/2010	3825.17	202.88	0	3622.29
MW-127	6/30/2011	3825.17	203.27	0	3621.90
MW-127	12/15/2011	3825.17	203.87	0	3621.30
MW-127	6/27/2012	3825.17	204.95	0	3620.22
MW-127	12/1/2012	3825.17	204.14	0	3621.03
MW-127	6/1/2013	3825.17	204.95	0	3620.22
MW-127	12/12/2013	3825.17	203.39	0	3621.78
MW-127	6/25/2014	3825.17	204.47	0	3620.70
MW-127	12/16/2014	3825.17	202.08	0	3623.09
MW-127	4/28/2015	3825.17	203.03	0	3622.14
MW-127	10/13/2015	3825.17	203.13	0	3622.04
MW-127	5/24/2016	3825.17	203.56	0	3621.61
MW-127	12/6/2016	3825.17	203.26	0	3621.91
MW-127	7/12/2017	3825.17	203.70	0	3621.47
MW-127	12/17/2017	3825.17	203.27	0	3621.90
MW-127	7/8/2018	3825.17	203.63	0	3621.54
MW-127	11/13/2018	3825.17	203.30	0	3621.87
MW-127	6/24/2019	3825.17	208.23	0	3616.94
MW-127	12/10/2019	3825.17	202.18	0	3622.99
MW-127	6/10/2020	3825.17	202.39	0	3622.78
MW-127	11/2/2020	3825.17	202.76	0	3622.41
MW-127	6/22/2021	3825.17	203.25	0	3621.92
MW-127	12/6/2021	3825.17	198.71	0	3626.46
MW-127	6/23/2022	3825.17	199.98	0	3625.19
MW-127	11/1/2022	3825.17	200.15	0	3625.02
MW-127	6/21/2023	3825.17	200.51	0	3624.66
MW-127	11/16/2023	3825.17	200.68	0	3624.49
MW-127	6/11/2024	3825.17	201.36	0	3623.81
MW-127	11/21/2024	3825.17	201.09	0	3624.08

Notes:

* MW-77 DTW does not agree with historical data.

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

APPENDIX B

Historical Analytical Data

Appendix B

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Historical BTEX Analytical Data, May 1991 - June 2024
 OXY USA WTP Limited Partnership, Indian Basin Gas Plant, Eddy County, New Mexico

Well ID	Sample Date	Analytical Results (µg/L)			
		Benzene	Toluene	Ethylbenzene	Total Xylenes
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-14	06/23/10	1.1	<1	2.9	19.4
MW-14	06/30/11	Not Sampled - not enough water to collect sample			
MW-14	06/28/12	Not Sampled - not enough water to collect sample			
MW-14	06/28/13	Not Sampled - not enough water to collect sample			
MW-14	06/26/14	2.6	<1	<1	<3
MW-14	04/30/15	2.6	<1	<1	<3
MW-14	05/25/16	<1	<1	<1	<3
MW-14	07/12/17	<1	<1	<1	<3
MW-14	06/13/18	Not Sampled - not enough water to collect sample			
MW-14	06/25/19	<0.56	<0.55	<1.29	<1.98
MW-14	06/10/20	<0.56	1.58	<1.29	<1.98
MW-14	06/22/21	Not Sampled - not enough water to collect sample			
MW-14	06/23/22	Not Sampled - not enough water to collect sample			
MW-14	06/22/23	Not Sampled - not enough water to collect sample			
MW-14	06/11/24	Not Sampled - not enough water to collect sample			
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-45	06/23/10	<1	<1	<1	<1
MW-45	07/01/11	<1	<1	<1	<3
MW-45	06/28/12	28.7	<1	0.57	<3
MW-45	06/28/13	Not Sampled - not enough water to collect sample			
MW-45	06/26/14	<1	<1	<1	<3
MW-45	04/30/15	<1	<1	<1	<3
MW-45	05/25/16	<1	<1	<1	<3
MW-45	07/13/17	<1	<1	<1	<3
MW-45	06/13/18	<1	<1	<1	<1
MW-45	06/24/19	<0.56	<0.55	<1.29	<1.98
MW-45	06/10/20	<0.56	0.934	<1.29	<1.98
MW-45	06/22/21	<2.0	<2.0	<2.0	<4.0
MW-45	06/23/22	<0.20	<0.20	<0.30	<0.30
MW-45	06/22/23	<0.20	<0.20	<0.30	<0.30
MW-45	06/11/24	Not Sampled - blockage in well			

Notes:

Concentrations listed in micrograms per liter (ug/L)

<5 Constituent not detected above noted laboratory detection limit

-- Indicates parameter was not analyzed

Appendix B

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Historical BTEX Analytical Data, May 1991 - June 2024
 OXY USA WTP Limited Partnership, Indian Basin Gas Plant, Eddy County, New Mexico

Well ID	Sample Date	Analytical Results (µg/L)			
		Benzene	Toluene	Ethylbenzene	Total Xylenes
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
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-46	06/23/10	<1	<1	<1	<1
MW-46	06/30/11	Not Sampled - not enough water to collect sample			
MW-46	06/28/12	Not Sampled - not enough water to collect sample			
MW-46	06/28/13	Not Sampled - not enough water to collect sample			
MW-46	06/26/14	220	<1	32.9	68.2
MW-46	04/30/15	Not Sampled - not enough water to collect sample			
MW-46	07/13/17	Not Sampled - not enough water to collect sample			
MW-46	06/13/18	Not Sampled - not enough water to collect sample			
MW-46	06/25/19	<0.56	<0.55	<1.29	<1.98
MW-46	06/10/20	<0.56	1.18	<1.29	<1.98
MW-46	06/22/21	Not Sampled - not enough water to collect sample			
MW-46	06/23/22	Not Sampled - not enough water to collect sample			
MW-46	06/22/23	Not Sampled - not enough water to collect sample			
MW-46	06/11/24	Not Sampled - not enough water to collect sample			
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

Notes:

Concentrations listed in micrograms per liter (ug/L)

<5 Constituent not detected above noted laboratory detection limit

-- Indicates parameter was not analyzed

Appendix B

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Historical BTEX Analytical Data, May 1991 - June 2024
 OXY USA WTP Limited Partnership, Indian Basin Gas Plant, Eddy County, New Mexico

Well ID	Sample Date	Analytical Results (µg/L)			
		Benzene	Toluene	Ethylbenzene	Total Xylenes
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
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-49	06/23/10	24	<1	<1	<1
MW-49	07/01/11	48	<1	<1	<3
MW-49	06/28/12	<1	<1	<1	<3
MW-49	06/28/13	34.1	<1	<1	<3
MW-49	06/26/14	44.1	<1	<1	<3
MW-49	04/30/15	1.3	<1	<1	<3
MW-49	05/25/16	13.4	<1	<1	<3
MW-49	07/12/17	13.6	<1	0.38 J	<3
MW-49	06/13/18	20.8	<1	<1	<1
MW-49	06/24/19	11.5	<0.55	<1.29	<1.98
MW-49	06/10/20	15.4	1.02	<1.29	<1.98
MW-49	06/22/21	<20	<20	<20	<40
MW-49	06/23/22	4.1	<0.20	<0.30	0.66 J
MW-49	06/22/23	0.6	<0.20	<0.30	<0.30
MW-49	06/13/24	<5.0	<5.0	<7.5	<7.5
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

Notes:

Concentrations listed in micrograms per liter (ug/L)

<5 Constituent not detected above noted laboratory detection limit

-- Indicates parameter was not analyzed

Appendix B

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Historical BTEX Analytical Data, May 1991 - June 2024
 OXY USA WTP Limited Partnership, Indian Basin Gas Plant, Eddy County, New Mexico

Well ID	Sample Date	Analytical Results (µg/L)			
		Benzene	Toluene	Ethylbenzene	Total Xylenes
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-58	06/28/13	Not Sampled - Condensate Present			
MW-58	06/28/14	Not Sampled - Condensate Present			
MW-58	04/30/15	Not Sampled - Condensate Present			
MW-58	07/13/17	Not Sampled - Condensate Present			
MW-58	06/13/18	Not Sampled - Condensate Present			
MW-58	06/25/19	Not Sampled - Condensate Present			
MW-58	06/10/20	Not Sampled - Condensate Present			
MW-58	06/22/21	Not Sampled - Condensate Present			
MW-58	06/23/22	Not Sampled - Condensate Present			
MW-58	06/22/23	Not Sampled - Condensate Present			
MW-58	06/11/24	Not Sampled - Condensate Present			
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
MW-66	04/18/01	<5	<5	<5	<15
MW-66	11/01/01	<5	<5	<5	<10

Notes:

Concentrations listed in micrograms per liter (ug/L)

<5 Constituent not detected above noted laboratory detection limit

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Historical BTEX Analytical Data, May 1991 - June 2024
 OXY USA WTP Limited Partnership, Indian Basin Gas Plant, Eddy County, New Mexico

Well ID	Sample Date	Analytical Results (µg/L)			
		Benzene	Toluene	Ethylbenzene	Total Xylenes
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-66	06/22/10	<1	<1	<1	<1
MW-66	06/30/11	<1	<1	<1	<3
MW-66	06/28/12	<1	<1	<1	<3
MW-66	06/28/13	<1	17.9	<1	<3
MW-66	06/27/14	<1	<1	<1	<3
MW-66	04/29/15	<1	<1	<1	<3
MW-66	05/24/16	<1	<1	<1	<3
MW-66	07/13/17	<1	<1	<1	<3
DUP-1	07/13/17	<1	<1	<1	<3
MW-66	06/12/18	<1	0.38 J	<1	<1
MW-66	06/25/19	<0.56	<0.55	<1.29	<1.98
MW-66	06/09/20	<0.56	<0.55	<1.29	<1.98
MW-66	06/22/21	<2.0	<2.0	<2.0	<4.0
MW-66	06/23/22	<0.20	<0.20	<0.30	<0.30
MW-66	06/22/23	<0.20	<0.20	<0.30	<0.30
MW-66	06/13/24	<0.20	<0.20	<0.30	<0.30
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
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

Notes:

Concentrations listed in micrograms per liter (ug/L)

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Historical BTEX Analytical Data, May 1991 - June 2024
 OXY USA WTP Limited Partnership, Indian Basin Gas Plant, Eddy County, New Mexico

Well ID	Sample Date	Analytical Results (µg/L)			
		Benzene	Toluene	Ethylbenzene	Total Xylenes
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-70	06/23/10	<1	<1	<1	<1
MW-70	06/30/11	<1	<1	<1	<3
MW-70	06/28/12	<1	<1	<1	<3
MW-70	06/28/13	<1	1.5	<1	<3
MW-70	06/27/14	NS - Well not accessible due to flooding			
MW-70	04/29/15	<1	<1	<1	<3
MW-70	05/24/16	<1	<1	<1	<3
MW-70	07/13/17	<1	<1	<1	<3
MW-70	06/13/18	<1	<1	<1	<1
MW-70	06/25/19	<0.56	<0.55	<1.29	<1.98
MW-70	06/09/20	<0.56	0.837	<1.29	<1.98
MW-70	06/22/21	7.1	5.7	<2	<4
MW-70	06/23/22	<0.20	<0.20	<0.30	<0.30
MW-70	06/22/23	<0.20	<0.20	<0.30	<0.30
MW-70	06/14/24	<0.20	<0.20	<0.30	<0.30
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
MW-77	04/26/06	<2.57	<2.74	<2.03	<5.81
MW-77	04/18/07	<5	<5	<5	<15
MW-77	06/23/10	<1	<1	<1	<1
MW-77	06/30/11	<1	<1	<1	<3
MW-77	06/28/12	Not Sampled - not enough water to collect sample			
MW-77	06/28/13	Not Sampled - not enough water to collect sample			
MW-77	06/26/14	<1	<1	<1	<3
MW-77	04/30/15	Not Sampled - not enough water to collect sample			
MW-77	07/13/17	Not Sampled - not enough water to collect sample			
MW-77	06/13/18	Not Sampled - not enough water to collect sample			
MW-77	06/25/19	Not Sampled - not enough water to collect sample			
MW-77	06/10/20	Not Sampled - not enough water to collect sample			

Notes:

Concentrations listed in micrograms per liter (ug/L)

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Historical BTEX Analytical Data, May 1991 - June 2024
 OXY USA WTP Limited Partnership, Indian Basin Gas Plant, Eddy County, New Mexico

Well ID	Sample Date	Analytical Results (µg/L)			
		Benzene	Toluene	Ethylbenzene	Total Xylenes
MW-77	06/22/21	Not Sampled - not enough water to collect sample			
MW-77	06/23/22	Not Sampled - not enough water to collect sample			
MW-77	06/22/23	Not Sampled - not enough water to collect sample			
MW-77	06/11/24	Not Sampled - not enough water to collect sample			
MW-81	06/29/98	<1	<1	<1	1.5
MW-81	06/26/14	Not Sampled - Condensate Present			
MW-81	04/30/15	Not Sampled - Condensate Present			
MW-81	05/24/16	Not Sampled - Condensate Present			
MW-81	07/13/17	Not Sampled - Condensate Present			
MW-81	06/13/18	Not Sampled - Condensate Present			
MW-81	06/25/19	Not Sampled - Condensate Present			
MW-81	06/10/20	Not Sampled - Condensate Present			
MW-81	06/22/21	Not Sampled - Condensate Present			
MW-81	06/23/22	Not Sampled - Condensate Present			
MW-81	06/22/23	Not Sampled - Condensate Present			
MW-81	06/11/24	Not Sampled - Condensate Present			
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
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-88	06/22/10	<1	<1	<1	<1
MW-88	06/30/11	<1	<1	<1	<3
MW-88	06/28/12	<1	<1	<1	<3
MW-88	06/28/13	<1	5.3	<1	<3
MW-88	06/26/14	<1	<1	<1	<3
MW-88	04/29/15	<1	<1	<1	<3
MW-88	05/24/16	<1	<1	<1	<3
MW-88	07/13/17	<1	<1	<1	<3
MW-88	06/13/18	<1	<1	<1	<1
MW-88	06/25/19	<0.56	<0.55	<1.29	<1.98

Notes:

Concentrations listed in micrograms per liter (ug/L)

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Historical BTEX Analytical Data, May 1991 - June 2024
 OXY USA WTP Limited Partnership, Indian Basin Gas Plant, Eddy County, New Mexico

Well ID	Sample Date	Analytical Results (µg/L)			
		Benzene	Toluene	Ethylbenzene	Total Xylenes
MW-88	06/09/20	<0.56	0.704	<1.29	<1.98
MW-88	06/22/21	<40	<40	<40	<80
MW-88	06/23/22	<0.20	<0.20	<0.30	<0.30
MW-88	06/22/23	<0.20	<0.20	<0.30	<0.30
MW-88 (DUP-1)	06/22/23	<0.20	<0.20	<0.30	<0.30
MW-88	06/13/24	<5.0	<5.0	<7.5	<7.5
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
MW-106	04/18/07	<5	<5	<5	<15
MW-106	06/23/10	<1	<1	<1	<1
MW-106	06/30/11	<1	<1	<1	<3
MW-106	06/28/12	<1	<1	<1	<3
MW-106	06/28/13	<1	1.8	<1	<3
MW-106	06/26/14	<1	<1	<1	<3
MW-106	04/30/15	<1	<1	<1	<3
MW-106	05/23/16	<1	<1	<1	<3
MW-106	07/13/17	<1	<1	<1	<3
MW-106	06/13/18	<1	<1	<1	<1
MW-106	06/25/19	<0.56	<0.55	<1.29	<1.98
MW-106	06/09/20	<0.56	0.813	<1.29	<1.98
MW-106	06/22/21	<2.0	<2.0	<2.0	<4.0
MW-106	06/23/22	<0.20	<0.20	<0.30	<0.30
MW-106	06/22/23	<0.20	<0.20	<0.30	<0.30
MW-106	06/13/24	<0.20	<0.20	<0.30	<0.30
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

Notes:

Concentrations listed in micrograms per liter (ug/L)

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Historical BTEX Analytical Data, May 1991 - June 2024
 OXY USA WTP Limited Partnership, Indian Basin Gas Plant, Eddy County, New Mexico

Well ID	Sample Date	Analytical Results (µg/L)			
		Benzene	Toluene	Ethylbenzene	Total Xylenes
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-111	06/22/10	<1	<1	<1	<1
MW-111	06/30/11	<1	<1	<1	<3
MW-111	06/28/12	<1	<1	<1	<3
MW-111	06/28/13	<1	3.9	<1	<3
MW-111	06/27/14	<1	<1	<1	<3
MW-111	04/30/15	<1	<1	<1	<3
MW-111	05/24/16	<1	<1	<1	<3
MW-111	07/13/17	<1	<1	<1	<3
MW-111	06/13/18	<1	<1	<1	<1
MW-111	06/25/19	<0.56	<0.55	<1.29	<1.98
MW-111	06/09/20	<0.56	<0.55	<1.29	<1.98
MW-111	06/22/21	<40	<40	<40	<80
MW-111	06/23/22	<0.20	<0.20	<0.30	<0.30
MW-111	06/22/23	<0.20	<0.20	<0.30	<0.30
MW-111	06/14/24	<0.20	<0.20	<0.30	<0.30
MW-113	08/11/99	140	<5	59	390
MW-113	06/27/14		NS - Condensate Present		
MW-113	04/30/15		NS - Condensate Present		
MW-113	07/13/17		NS - Condensate Present		
MW-113	06/13/18		NS - Condensate Present		
MW-113	06/25/19		NS - Condensate Present		
MW-113	06/10/20		NS - Condensate Present		
MW-113	06/22/21		NS - Condensate Present		
MW-113	06/23/22		NS - Condensate Present		
MW-113	06/22/23		Not Sampled - not enough water to collect sample		
MW-113	06/11/24		Not Sampled - not enough water to collect sample		
MW-127	12/28/99	190	7.1	38	16
MW-127	05/28/09	<1	<1	<1	1.4
MW-127	06/23/10	<1	<1	<1	2.2
MW-127	07/01/11	<1	<1	<1	<3
MW-127	06/28/12	<1	<1	<1	<3
MW-127	06/28/13	<1	2.8	0.48 J	<3
MW-127	06/26/14	<1	<1	<1	<3
MW-127	04/30/15	<1	<1	<1	<3
MW-127	05/24/16	<1	<1	<1	<3
MW-127	07/13/17	<1	<1	<1	<3
MW-127	06/14/18	<1	<1	<1	<1
MW-127	06/25/19	<0.56	<0.55	<1.29	<1.98
MW-127	06/10/20	<0.56	0.927	<1.29	<1.98
MW-127 (DUP-1)	06/10/20	<0.56	0.569	<1.29	<1.98
MW-127	06/22/21	<20	<20	<20	<40
MW-127	06/23/22	<0.20	<0.20	<0.30	<0.30
MW-127	06/22/23	<0.20	<0.20	<0.30	<0.30
MW-127	06/13/24	<5.0	<5.0	<7.5	<7.5

Notes:

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Wet Chemistry, 1991 through 2024
 OXY USA WTP Limited Partnership, Indian Basin Gas Plant, Eddy County, New Mexico

Station or Well Name	Sample Collection Date	Wet Chemistry Analytical Data (mg/L)	
		Total Dissolved Solids (TDS)	Chloride
		New Mexico Standards 1,000	250
MW-014	6/22/1998	1,400	330
MW-014	4/18/2002	<u>1,200</u>	<u>300</u>
MW-014	10/24/2003	<u>1,100</u>	150
MW-014 (Dup 1)	10/24/2003	<u>1,000</u>	140
MW-014	4/25/2005	<u>1,130</u>	230
MW-014 (Dup 1)	4/25/2005	<u>1,100</u>	232
MW-014	4/27/2006	<u>1,110</u>	209
MW-014 (Dup 1)	4/27/2006	<u>1,110</u>	207
MW-014	4/20/2007	<u>1,060</u>	196
MW-014 (Dup 1)	4/20/2007	<u>1,010</u>	194
MW-014	6/25/2014	<u>1,430</u>	61.6
MW-014	4/30/2015	<u>1,320</u>	<u>268</u>
MW-014	5/25/2016	<u>1,400</u>	<u>266</u>
MW-014	7/12/2017	<u>1,610</u>	240
MW-014	6/25/2019	<u>2,530</u>	124
MW-014	6/10/2020	<u>1,360</u>	132
MW-045	6/1/1991	5,440	507
MW-045	9/1/1991	<u>3,920</u>	NA
MW-045	12/1/1991	NA	<u>354</u>
MW-045	7/15/1993	NA	<u>434</u>
MW-045	10/14/1993	NA	<u>408</u>
MW-045	1/13/1994	NA	<u>440</u>
MW-045	4/6/1994	NA	<u>430</u>
MW-045	7/20/1994	NA	<u>429</u>
MW-045	5/29/2009	<u>2,540</u>	174
MW-045	6/23/2010	<u>4,190</u>	<u>473</u>
MW-045	7/1/2011	<u>3,630</u>	208
MW-045	6/28/2012	<u>3,840</u>	<u>314</u>
MW-045	6/25/2014	<u>4,120</u>	98.7
MW-045	4/30/2015	<u>5,990</u>	209
MW-045	5/25/2016	<u>5,400</u>	238
MW-045 (Dup 1)	5/25/2016	<u>5,340</u>	245
MW-045	7/13/2017	<u>5,620</u>	<u>308</u>
MW-045	6/13/2018	<u>5,090</u>	<u>256</u>
MW-045	6/24/2019	<u>5,500</u>	177
MW-045 (Dup 1)	6/24/2019	<u>5,300</u>	127
MW-045	6/10/2020	<u>5,230</u>	150
MW-045	6/22/2021	<u>5,750</u>	<u>497</u>
MW-045	6/23/2022	<u>6,480</u>	<u>313</u>
MW-045	6/22/2023	<u>5,380</u>	<u>266</u>
MW-046	6/1/1991	1,220	152
MW-046	7/1/1991	NA	45
MW-046	10/1/1996	NA	170
MW-046	2/11/1997	NA	220

Notes:

NA No analysis performed

mg/L Milligrams per liter

1,100 Indicates result at/above the applicable standard

<5 Indicates the result is below the specified laboratory detection limit

Appendix B

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Wet Chemistry, 1991 through 2024
 OXY USA WTP Limited Partnership, Indian Basin Gas Plant, Eddy County, New Mexico

		Wet Chemistry Analytical Data (mg/L)	
Constituent		Total Dissolved Solids (TDS)	Chloride
New Mexico Standards		1,000	250
Station or Well Name	Sample Collection Date		
MW-046	5/29/1997	<u>1,300</u>	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
MW-046	4/19/2001	570	47
MW-046	4/17/2002	490	37
MW-046	4/8/2004	<u>2,300</u>	<u>340</u>
MW-046	4/27/2005	<u>1,090</u>	116
MW-046	4/23/2007	<u>1,770</u>	132
MW-046	6/25/2014	870	103
MW-046	6/25/2019	<u>3,880</u>	192
MW-046	6/25/2020	<u>1,630</u>	125
MW-049	6/1/1991	<u>3,910</u>	<u>365</u>
MW-049	6/25/1991	NA	NA
MW-049	7/15/1993	NA	<u>399</u>
MW-049	10/14/1993	NA	<u>397</u>
MW-049	1/13/1994	NA	<u>400</u>
MW-049	4/6/1994	NA	<u>380</u>
MW-049	7/20/1994	NA	<u>368</u>
MW-049	10/5/1994	NA	<u>380</u>
MW-049	1/11/1995	NA	<u>389</u>
MW-049	4/6/1995	NA	<u>390</u>
MW-049	7/21/1995	NA	<u>380</u>
MW-049	10/12/1995	NA	<u>350</u>
MW-049	1/20/1996	NA	<u>410</u>
MW-049	4/19/1996	NA	<u>400</u>
MW-049	7/1/1996	NA	<u>360</u>
MW-049	10/1/1996	NA	36
MW-049	2/7/1997	NA	<u>410</u>
MW-049	3/20/1997	<u>3,100</u>	NA
MW-049	7/18/1997	NA	<u>350</u>
MW-049	6/21/1998	<u>2,800</u>	<u>630</u>
MW-049	4/20/1999	<u>3,000</u>	<u>410</u>
MW-049	4/27/2000	<u>3,320</u>	<u>379</u>
MW-049	4/17/2001	<u>3,100</u>	<u>350</u>
MW-049	4/17/2002	<u>2,600</u>	<u>450</u>
MW-049	10/28/2003	<u>2,900</u>	<u>570</u>
MW-049	4/9/2004	<u>2,900</u>	<u>440</u>
MW-049 (Dup-1)	4/9/2004	<u>3,000</u>	<u>410</u>
MW-049	4/25/2005	<u>3,960</u>	<u>345</u>
MW-049	4/26/2006	<u>3,400</u>	<u>318</u>
MW-049	4/20/2007	<u>2,990</u>	<u>325</u>
MW-049	5/28/2009	<u>3,090</u>	<u>370</u>
MW-049	6/23/2010	<u>2,650</u>	<u>408</u>

Notes:

NA No analysis performed

mg/L Milligrams per liter

1,100 Indicates result at/above the applicable standard

<5 Indicates the result is below the specified laboratory detection limit

Appendix B

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Wet Chemistry, 1991 through 2024
 OXY USA WTP Limited Partnership, Indian Basin Gas Plant, Eddy County, New Mexico

Station or Well Name	Sample Collection Date	Wet Chemistry Analytical Data (mg/L)	
		Total Dissolved Solids (TDS)	Chloride
		New Mexico Standards	1,000
			250
MW-049	7/1/2011	<u>3.250</u>	<u>347</u>
MW-049	6/28/2012	<u>3.640</u>	<u>325</u>
MW-049	6/28/2013	<u>4.290</u>	<u>289</u>
MW-049	6/25/2014	<u>3.570</u>	<u>356</u>
MW-049	4/30/2015	<u>5.220</u>	<u>464</u>
MW-049	5/25/2016	<u>4.900</u>	<u>379</u>
MW-049	7/12/2017	<u>4.390</u>	<u>355</u>
MW-049	6/13/2018	<u>3.780</u>	<u>314</u>
MW-049	6/24/2019	<u>3.540</u>	<u>285</u>
MW-049	6/10/2020	<u>4.000</u>	<u>491</u>
MW-049	6/22/2021	<u>3.360</u>	<u>316</u>
MW-049	6/23/2022	<u>4.050</u>	<u>343</u>
MW-049	6/22/2023	<u>3.940</u>	<u>317</u>
MW-49	6/13/2024	<u>3.930</u>	<u>294</u>
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-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

Notes:

NA No analysis performed

mg/L Milligrams per liter

1,100 Indicates result at/above the applicable standard

<5 Indicates the result is below the specified laboratory detection limit

Appendix B

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Wet Chemistry, 1991 through 2024
 OXY USA WTP Limited Partnership, Indian Basin Gas Plant, Eddy County, New Mexico

Station or Well Name	Sample Collection Date	Wet Chemistry Analytical Data (mg/L)	
		Total Dissolved Solids (TDS)	Chloride
		New Mexico Standards 1,000	250
MW-058	6/22/1998	760	42
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-066	6/22/2010	768	9.09
MW-066	6/30/2011	817	8.60
MW-066	6/28/2012	687	9.6
MW-066	6/25/2014	793	8.5
MW-066	4/29/2015	822	9.5
MW-066	5/24/2016	839	8.1
MW-066	7/13/2017	808	8.4
DUP-1	7/13/2017	819	8.5
MW-066	6/12/2018	857	8.6

Notes:

NA No analysis performed

mg/L Milligrams per liter

1,100 Indicates result at/above the applicable standard

<5 Indicates the result is below the specified laboratory detection limit

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Wet Chemistry, 1991 through 2024
 OXY USA WTP Limited Partnership, Indian Basin Gas Plant, Eddy County, New Mexico

Station or Well Name	Sample Collection Date	Wet Chemistry Analytical Data (mg/L)	
		Total Dissolved Solids (TDS)	Chloride
		New Mexico Standards 1,000	250
MW-066	6/25/2019	860	8.1
MW-066	6/9/2020	920	11.4
MW-066	6/22/2021	788	8.31
MW-066	6/23/2022	836	8.34
MW-066	6/22/2023	604	8.93
MW-66	6/13/2024	702	8.62
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
MW-070	4/24/2007	<u>1,150</u>	21.9
MW-070	5/27/2009	508	10.2
MW-070	6/23/2010	350	9.96
MW-070	6/30/2011	426	9.5
MW-070	6/28/2012	509	33.3
MW-070	4/29/2015	377	109
MW-070	5/24/2016	402	9.6
MW-070	7/13/2017	333	9.9

Notes:

NA No analysis performed

mg/L Milligrams per liter

1,100 Indicates result at/above the applicable standard

<5 Indicates the result is below the specified laboratory detection limit

Appendix B

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Wet Chemistry, 1991 through 2024
 OXY USA WTP Limited Partnership, Indian Basin Gas Plant, Eddy County, New Mexico

Station or Well Name	Sample Collection Date	Wet Chemistry Analytical Data (mg/L)	
		Total Dissolved Solids (TDS)	Chloride
		New Mexico Standards 1,000	250
MW-070	6/13/2018	498	10.3
MW-070	6/25/2019	<u>1,750</u>	9.87
MW-070	6/9/2020	394	8.61
MW-070	6/22/2021	431	10.7
MW-070	6/23/2022	388	9.84
MW-070	6/22/2023	14	10.1
MW-70	6/14/2024	422	10.5
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	<u>1,110</u>	180
MW-077	4/26/2006	521	55
MW-077	6/23/2010	545	48
MW-077	6/30/2011	467	26.9
MW-077	6/25/2014	537	39.9
MW-081	6/29/1998	800	16
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
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-088	6/22/2010	919	35.2
MW-088	6/30/2011	946	41.1
MW-088	6/28/2012	912	29.8
MW-088	6/25/2014	863	26.2
MW-088	4/29/2015	914	30.6
MW-088	5/24/2016	975	27.4
MW-088	7/13/2017	984	29.8

Notes:

NA No analysis performed

mg/L Milligrams per liter

1,100 Indicates result at/above the applicable standard

<5 Indicates the result is below the specified laboratory detection limit

Appendix B

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Wet Chemistry, 1991 through 2024
 OXY USA WTP Limited Partnership, Indian Basin Gas Plant, Eddy County, New Mexico

		Wet Chemistry Analytical Data (mg/L)	
Constituent		Total Dissolved Solids (TDS)	Chloride
New Mexico Standards		1,000	250
Station or Well Name	Sample Collection Date		
MW-088	6/13/2018	<u>1,030</u>	28.9
MW-088	6/25/2019	920	28.4
MW-088	6/9/2020	962	25.5
MW-088	6/22/2021	884	35
MW-088 (DUP-1)	6/22/2021	855	32.9
MW-088	6/23/2022	<u>1,020</u>	26.1
MW-088	6/22/2023	620	26.9
MW-088 (DUP-1)	6/22/2023	680	26.8
MW-88	6/13/2024	880	25.3
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-106	6/23/2010	349	3.12
MW-106	6/30/2011	368	2.3
MW-106	6/28/2012	374	3.8
MW-106	6/28/2013	387	2.5
MW-106	6/25/2014	374	2.5
MW-106	4/30/2015	388	4.8
MW-106	5/23/2016	388	2.9
MW-106	7/13/2017	364	3.1
MW-106	6/13/2018	404	3.1
MW-106	6/25/2019	368	3.72
MW-106	6/9/2020	383	3.26
MW-106	6/22/2021	362	3.14
MW-106	6/23/2022	428	3.08
MW-106	6/22/2023	230	4.04
MW-106	6/13/2024	348	3.52
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

Notes:

NA No analysis performed

mg/L Milligrams per liter

1,100 Indicates result at/above the applicable standard

<5 Indicates the result is below the specified laboratory detection limit

Appendix B

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Wet Chemistry, 1991 through 2024
 OXY USA WTP Limited Partnership, Indian Basin Gas Plant, Eddy County, New Mexico

		Wet Chemistry Analytical Data (mg/L)	
Constituent		Total Dissolved Solids (TDS)	Chloride
New Mexico Standards		1,000	250
Station or Well Name	Sample Collection Date		
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-111	6/22/2010	750	70.2
MW-111	6/30/2011	798	92.8
MW-111	6/28/2012	695	58.4
MW-111	6/28/2013	787	56.8
MW-111	6/25/2014	703	59.9
MW-111	4/30/2015	695	68.7
MW-111	5/27/2016	677	43.3
MW-111	7/13/2017	687	39.1
MW-111	6/13/2018	708	45.9
MW-111	6/25/2019	688	40
MW-111	6/9/2020	768	62.7
MW-111	6/22/2021	616	33.1
MW-111	6/23/2022	768	33.9
MW-111	6/22/2023	<u>1,120</u>	29.4
MW-111	6/14/2024	614	30.7
MW-127	5/28/2009	766	77.1
MW-127	6/23/2010	746	44.4
MW-127	7/1/2011	715	42.3
MW-127	6/28/2012	720	42.5
MW-127	6/28/2013	779	42.5
MW-127	6/25/2014	863	26.1
MW-127	4/30/2015	665	49.1
MW-127	5/25/2016	665	45.9
MW-127	7/13/2017	730	48.7
MW-127	6/14/2018	830	58.4
MW-127	6/25/2019	750	53
MW-127	6/10/2020	743	41.9
MW-127 (DUP-1)	6/10/2020	796	41.7
MW-127	6/22/2021	656	46.9
MW-127	6/23/2022	528	32.1
MW-127	6/22/2023	324	35.2
MW-127	6/13/2024	504	41.9

Notes:

NA No analysis performed

mg/L Milligrams per liter

1,100 Indicates result at/above the applicable standard

<5 Indicates the result is below the specified laboratory detection limit

APPENDIX C

Laboratory Analytical Reports



10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
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June 24, 2024

Hugh Robotham
Glenn Springs Holdings, Inc.
PO Box 2148
Houston, TX 77252-2148

Work Order: **HS24061010**

Laboratory Results for: **11129300 Indian Basin**

Dear Hugh Robotham,

ALS Environmental received 8 sample(s) on Jun 15, 2024 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Luis Aguilar', written in a cursive style.

Generated By: DAYNA.FISHER

Luis.Aguilar

ALS Houston, US

Date: 24-Jun-24

Client: Glenn Springs Holdings, Inc.
Project: 11129300 Indian Basin
Work Order: HS24061010

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS24061010-01	MW 70	Water		14-Jun-2024 12:00	15-Jun-2024 09:00	☐
HS24061010-02	MW 111	Water		14-Jun-2024 10:00	15-Jun-2024 09:00	☐
HS24061010-03	MW 49	Water		13-Jun-2024 18:35	15-Jun-2024 09:00	☐
HS24061010-04	MW 66	Water		13-Jun-2024 15:20	15-Jun-2024 09:00	☐
HS24061010-05	MW 127	Water		13-Jun-2024 13:40	15-Jun-2024 09:00	☐
HS24061010-06	MW 106	Water		13-Jun-2024 12:10	15-Jun-2024 09:00	☐
HS24061010-07	MW 88	Water		13-Jun-2024 09:00	15-Jun-2024 09:00	☐
HS24061010-08	Trip Blank	Water	cg052424-95	14-Jun-2024 00:00	15-Jun-2024 09:00	☐

ALS Houston, US

Date: 24-Jun-24

Client: Glenn Springs Holdings, Inc.
Project: 11129300 Indian Basin
Work Order: HS24061010

CASE NARRATIVE

GCMS Volatiles by Method SW8260**Batch ID: R470181**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Batch ID: R469879

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Batch ID: R470005**Sample ID: MW 49 (HS24061010-03)**

- Surrogate recovered above upper control limit

Sample ID: MW 127 (HS24061010-05)

- Surrogate recovered above upper control limit

Sample ID: MW 88 (HS24061010-07)

- Surrogate recovered above upper control limit

WetChemistry by Method E300**Batch ID: R469914**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method M2540C**Batch ID: R469874**

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.
-

ALS Houston, US

Date: 24-Jun-24

Client:	Glenn Springs Holdings, Inc.	ANALYTICAL REPORT
Project:	11129300 Indian Basin	WorkOrder:HS24061010
Sample ID:	MW 70	Lab ID:HS24061010-01
Collection Date:	14-Jun-2024 12:00	Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260				Analyst: AKP	
Benzene	U		0.20	1.0	ug/L	1	19-Jun-2024 11:16
Ethylbenzene	U		0.30	1.0	ug/L	1	19-Jun-2024 11:16
Toluene	U		0.20	1.0	ug/L	1	19-Jun-2024 11:16
Xylenes, Total	U		0.30	3.0	ug/L	1	19-Jun-2024 11:16
Surr: 1,2-Dichloroethane-d4	81.0			70-126	%REC	1	19-Jun-2024 11:16
Surr: 4-Bromofluorobenzene	91.2			77-113	%REC	1	19-Jun-2024 11:16
Surr: Dibromofluoromethane	89.2			77-123	%REC	1	19-Jun-2024 11:16
Surr: Toluene-d8	94.5			82-127	%REC	1	19-Jun-2024 11:16
ANIONS BY E300.0, REV 2.1, 1993		Method:E300				Analyst: TH	
Chloride	10.5		0.200	0.500	mg/L	1	19-Jun-2024 08:28
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C				Analyst: MH	
Total Dissolved Solids (Residue, Filterable)	422		5.00	10.0	mg/L	1	19-Jun-2024 09:30

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 24-Jun-24

Client:	Glenn Springs Holdings, Inc.	ANALYTICAL REPORT
Project:	11129300 Indian Basin	WorkOrder:HS24061010
Sample ID:	MW 111	Lab ID:HS24061010-02
Collection Date:	14-Jun-2024 10:00	Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260				Analyst: AKP	
Benzene	U		0.20	1.0	ug/L	1	19-Jun-2024 11:38
Ethylbenzene	U		0.30	1.0	ug/L	1	19-Jun-2024 11:38
Toluene	U		0.20	1.0	ug/L	1	19-Jun-2024 11:38
Xylenes, Total	U		0.30	3.0	ug/L	1	19-Jun-2024 11:38
Surr: 1,2-Dichloroethane-d4	81.2			70-126	%REC	1	19-Jun-2024 11:38
Surr: 4-Bromofluorobenzene	91.3			77-113	%REC	1	19-Jun-2024 11:38
Surr: Dibromofluoromethane	90.3			77-123	%REC	1	19-Jun-2024 11:38
Surr: Toluene-d8	95.6			82-127	%REC	1	19-Jun-2024 11:38
ANIONS BY E300.0, REV 2.1, 1993		Method:E300				Analyst: TH	
Chloride	30.7		0.200	0.500	mg/L	1	19-Jun-2024 08:45
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C				Analyst: MH	
Total Dissolved Solids (Residue, Filterable)	614		5.00	10.0	mg/L	1	19-Jun-2024 09:30

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 24-Jun-24

Client: Glenn Springs Holdings, Inc.
Project: 11129300 Indian Basin
Sample ID: MW 49
Collection Date: 13-Jun-2024 18:35

ANALYTICAL REPORT

WorkOrder:HS24061010
Lab ID:HS24061010-03
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260				Analyst: AKP	
Benzene	U		5.0	25	ug/L	25	20-Jun-2024 04:55
Ethylbenzene	U		7.5	25	ug/L	25	20-Jun-2024 04:55
Toluene	U		5.0	25	ug/L	25	20-Jun-2024 04:55
Xylenes, Total	U		7.5	75	ug/L	25	20-Jun-2024 04:55
Surr: 1,2-Dichloroethane-d4	128	S		70-126	%REC	25	20-Jun-2024 04:55
Surr: 4-Bromofluorobenzene	105			77-113	%REC	25	20-Jun-2024 04:55
Surr: Dibromofluoromethane	109			77-123	%REC	25	20-Jun-2024 04:55
Surr: Toluene-d8	95.1			82-127	%REC	25	20-Jun-2024 04:55
ANIONS BY E300.0, REV 2.1, 1993		Method:E300				Analyst: TH	
Chloride	294	*	2.00	5.00	mg/L	10	19-Jun-2024 08:51
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C				Analyst: MH	
Total Dissolved Solids (Residue, Filterable)	3,930		5.00	10.0	mg/L	1	19-Jun-2024 09:30

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 24-Jun-24

Client: Glenn Springs Holdings, Inc.
Project: 11129300 Indian Basin
Sample ID: MW 66
Collection Date: 13-Jun-2024 15:20

ANALYTICAL REPORT

WorkOrder:HS24061010
Lab ID:HS24061010-04
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260					Analyst: AKP
Benzene	U		0.20	1.0	ug/L	1	21-Jun-2024 19:01
Ethylbenzene	U		0.30	1.0	ug/L	1	21-Jun-2024 19:01
Toluene	U		0.20	1.0	ug/L	1	21-Jun-2024 19:01
Xylenes, Total	U		0.30	3.0	ug/L	1	21-Jun-2024 19:01
Surr: 1,2-Dichloroethane-d4	101			70-126	%REC	1	21-Jun-2024 19:01
Surr: 4-Bromofluorobenzene	104			77-113	%REC	1	21-Jun-2024 19:01
Surr: Dibromofluoromethane	113			77-123	%REC	1	21-Jun-2024 19:01
Surr: Toluene-d8	102			82-127	%REC	1	21-Jun-2024 19:01
ANIONS BY E300.0, REV 2.1, 1993		Method:E300					Analyst: TH
Chloride	8.62		0.200	0.500	mg/L	1	19-Jun-2024 09:27
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C					Analyst: MH
Total Dissolved Solids (Residue, Filterable)	702		5.00	10.0	mg/L	1	19-Jun-2024 09:30

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 24-Jun-24

Client: Glenn Springs Holdings, Inc.
Project: 11129300 Indian Basin
Sample ID: MW 127
Collection Date: 13-Jun-2024 13:40

ANALYTICAL REPORT

WorkOrder:HS24061010
Lab ID:HS24061010-05
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260				Analyst: AKP	
Benzene	U		5.0	25	ug/L	25	20-Jun-2024 05:21
Ethylbenzene	U		7.5	25	ug/L	25	20-Jun-2024 05:21
Toluene	U		5.0	25	ug/L	25	20-Jun-2024 05:21
Xylenes, Total	U		7.5	75	ug/L	25	20-Jun-2024 05:21
Surr: 1,2-Dichloroethane-d4	133	S		70-126	%REC	25	20-Jun-2024 05:21
Surr: 4-Bromofluorobenzene	106			77-113	%REC	25	20-Jun-2024 05:21
Surr: Dibromofluoromethane	113			77-123	%REC	25	20-Jun-2024 05:21
Surr: Toluene-d8	96.2			82-127	%REC	25	20-Jun-2024 05:21
ANIONS BY E300.0, REV 2.1, 1993		Method:E300				Analyst: TH	
Chloride	41.9		0.200	0.500	mg/L	1	19-Jun-2024 09:33
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C				Analyst: MH	
Total Dissolved Solids (Residue, Filterable)	504		5.00	10.0	mg/L	1	19-Jun-2024 09:30

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 24-Jun-24

Client: Glenn Springs Holdings, Inc.
 Project: 11129300 Indian Basin
 Sample ID: MW 106
 Collection Date: 13-Jun-2024 12:10

ANALYTICAL REPORT

WorkOrder:HS24061010
 Lab ID:HS24061010-06
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260				Analyst: AKP	
Benzene	U		0.20	1.0	ug/L	1	21-Jun-2024 19:24
Ethylbenzene	U		0.30	1.0	ug/L	1	21-Jun-2024 19:24
Toluene	U		0.20	1.0	ug/L	1	21-Jun-2024 19:24
Xylenes, Total	U		0.30	3.0	ug/L	1	21-Jun-2024 19:24
Surr: 1,2-Dichloroethane-d4	103			70-126	%REC	1	21-Jun-2024 19:24
Surr: 4-Bromofluorobenzene	102			77-113	%REC	1	21-Jun-2024 19:24
Surr: Dibromofluoromethane	111			77-123	%REC	1	21-Jun-2024 19:24
Surr: Toluene-d8	102			82-127	%REC	1	21-Jun-2024 19:24
ANIONS BY E300.0, REV 2.1, 1993		Method:E300				Analyst: TH	
Chloride	3.52		0.200	0.500	mg/L	1	19-Jun-2024 09:39
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C				Analyst: MH	
Total Dissolved Solids (Residue, Filterable)	348		5.00	10.0	mg/L	1	19-Jun-2024 09:30

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 24-Jun-24

Client: Glenn Springs Holdings, Inc.
Project: 11129300 Indian Basin
Sample ID: MW 88
Collection Date: 13-Jun-2024 09:00

ANALYTICAL REPORT

WorkOrder:HS24061010
Lab ID:HS24061010-07
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260				Analyst: AKP	
Benzene	U		5.0	25	ug/L	25	20-Jun-2024 05:46
Ethylbenzene	U		7.5	25	ug/L	25	20-Jun-2024 05:46
Toluene	U		5.0	25	ug/L	25	20-Jun-2024 05:46
Xylenes, Total	U		7.5	75	ug/L	25	20-Jun-2024 05:46
Surr: 1,2-Dichloroethane-d4	128	S		70-126	%REC	25	20-Jun-2024 05:46
Surr: 4-Bromofluorobenzene	104			77-113	%REC	25	20-Jun-2024 05:46
Surr: Dibromofluoromethane	109			77-123	%REC	25	20-Jun-2024 05:46
Surr: Toluene-d8	99.4			82-127	%REC	25	20-Jun-2024 05:46
ANIONS BY E300.0, REV 2.1, 1993		Method:E300				Analyst: TH	
Chloride	25.3		0.200	0.500	mg/L	1	19-Jun-2024 09:56
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C				Analyst: MH	
Total Dissolved Solids (Residue, Filterable)	880		5.00	10.0	mg/L	1	19-Jun-2024 09:30

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 24-Jun-24

Client:	Glenn Springs Holdings, Inc.	ANALYTICAL REPORT
Project:	11129300 Indian Basin	WorkOrder:HS24061010
Sample ID:	Trip Blank	Lab ID:HS24061010-08
Collection Date:	14-Jun-2024 00:00	Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260					Analyst: AKP
Benzene	U		0.20	1.0	ug/L	1	19-Jun-2024 10:54
Ethylbenzene	U		0.30	1.0	ug/L	1	19-Jun-2024 10:54
Toluene	U		0.20	1.0	ug/L	1	19-Jun-2024 10:54
Xylenes, Total	U		0.30	3.0	ug/L	1	19-Jun-2024 10:54
Surr: 1,2-Dichloroethane-d4	80.8			70-126	%REC	1	19-Jun-2024 10:54
Surr: 4-Bromofluorobenzene	90.3			77-113	%REC	1	19-Jun-2024 10:54
Surr: Dibromofluoromethane	91.2			77-123	%REC	1	19-Jun-2024 10:54
Surr: Toluene-d8	95.9			82-127	%REC	1	19-Jun-2024 10:54

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 24-Jun-24

Client: Glenn Springs Holdings, Inc.**Project:** 11129300 Indian Basin**WorkOrder:** HS24061010**DATES REPORT**

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R469874 (0)		Test Name : TOTAL DISSOLVED SOLIDS BY SM2540C-2011			Matrix: Water	
HS24061010-01	MW 70	14 Jun 2024 12:00			19 Jun 2024 09:30	1
HS24061010-02	MW 111	14 Jun 2024 10:00			19 Jun 2024 09:30	1
HS24061010-03	MW 49	13 Jun 2024 18:35			19 Jun 2024 09:30	1
HS24061010-04	MW 66	13 Jun 2024 15:20			19 Jun 2024 09:30	1
HS24061010-05	MW 127	13 Jun 2024 13:40			19 Jun 2024 09:30	1
HS24061010-06	MW 106	13 Jun 2024 12:10			19 Jun 2024 09:30	1
HS24061010-07	MW 88	13 Jun 2024 09:00			19 Jun 2024 09:30	1
Batch ID: R469879 (0)		Test Name : LOW LEVEL VOLATILES BY SW8260C			Matrix: Water	
HS24061010-01	MW 70	14 Jun 2024 12:00			19 Jun 2024 11:16	1
HS24061010-02	MW 111	14 Jun 2024 10:00			19 Jun 2024 11:38	1
HS24061010-08	Trip Blank	14 Jun 2024 00:00			19 Jun 2024 10:54	1
Batch ID: R469914 (0)		Test Name : ANIONS BY E300.0, REV 2.1, 1993			Matrix: Water	
HS24061010-01	MW 70	14 Jun 2024 12:00			19 Jun 2024 08:28	1
HS24061010-02	MW 111	14 Jun 2024 10:00			19 Jun 2024 08:45	1
HS24061010-03	MW 49	13 Jun 2024 18:35			19 Jun 2024 08:51	10
HS24061010-04	MW 66	13 Jun 2024 15:20			19 Jun 2024 09:27	1
HS24061010-05	MW 127	13 Jun 2024 13:40			19 Jun 2024 09:33	1
HS24061010-06	MW 106	13 Jun 2024 12:10			19 Jun 2024 09:39	1
HS24061010-07	MW 88	13 Jun 2024 09:00			19 Jun 2024 09:56	1
Batch ID: R470005 (0)		Test Name : LOW LEVEL VOLATILES BY SW8260C			Matrix: Water	
HS24061010-03	MW 49	13 Jun 2024 18:35			20 Jun 2024 04:55	25
HS24061010-05	MW 127	13 Jun 2024 13:40			20 Jun 2024 05:21	25
HS24061010-07	MW 88	13 Jun 2024 09:00			20 Jun 2024 05:46	25
Batch ID: R470181 (0)		Test Name : LOW LEVEL VOLATILES BY SW8260C			Matrix: Water	
HS24061010-04	MW 66	13 Jun 2024 15:20			21 Jun 2024 19:01	1
HS24061010-06	MW 106	13 Jun 2024 12:10			21 Jun 2024 19:24	1

ALS Houston, US

Date: 24-Jun-24

Client: Glenn Springs Holdings, Inc.
Project: 11129300 Indian Basin
WorkOrder: HS24061010

QC BATCH REPORT

Batch ID: R469879 (0)		Instrument: VOA11		Method: LOW LEVEL VOLATILES BY SW8260C					
MBLK	Sample ID: VBLKW-240619	Units: ug/L		Analysis Date: 19-Jun-2024 10:32					
Client ID:	Run ID: VOA11_469879	SeqNo: 8086241		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	U	1.0							
Ethylbenzene	U	1.0							
Toluene	U	1.0							
Xylenes, Total	U	3.0							
Surr: 1,2-Dichloroethane-d4	40.18	1.0	50	0	80.4	70 - 123			
Surr: 4-Bromofluorobenzene	46.28	1.0	50	0	92.6	77 - 113			
Surr: Dibromofluoromethane	44.66	1.0	50	0	89.3	73 - 126			
Surr: Toluene-d8	48.07	1.0	50	0	96.1	81 - 120			

LCS	Sample ID: VLCSW-240619	Units: ug/L		Analysis Date: 19-Jun-2024 09:26					
Client ID:	Run ID: VOA11_469879	SeqNo: 8086239		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	18.7	1.0	20	0	93.5	74 - 120			
Ethylbenzene	20.35	1.0	20	0	102	77 - 117			
Toluene	18.74	1.0	20	0	93.7	77 - 118			
Xylenes, Total	61	3.0	60	0	102	75 - 122			
Surr: 1,2-Dichloroethane-d4	37.84	1.0	50	0	75.7	70 - 123			
Surr: 4-Bromofluorobenzene	47.83	1.0	50	0	95.7	77 - 113			
Surr: Dibromofluoromethane	44.26	1.0	50	0	88.5	73 - 126			
Surr: Toluene-d8	49.66	1.0	50	0	99.3	81 - 120			

LCSD	Sample ID: VLCSDW-240619	Units: ug/L		Analysis Date: 19-Jun-2024 09:48					
Client ID:	Run ID: VOA11_469879	SeqNo: 8086240		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	17.9	1.0	20	0	89.5	74 - 120	18.7	4.37	20
Ethylbenzene	19.35	1.0	20	0	96.8	77 - 117	20.35	5.02	20
Toluene	18.11	1.0	20	0	90.6	77 - 118	18.74	3.41	20
Xylenes, Total	59.73	3.0	60	0	99.6	75 - 122	61	2.1	20
Surr: 1,2-Dichloroethane-d4	38.03	1.0	50	0	76.1	70 - 123	37.84	0.517	20
Surr: 4-Bromofluorobenzene	47.38	1.0	50	0	94.8	77 - 113	47.83	0.949	20
Surr: Dibromofluoromethane	42.66	1.0	50	0	85.3	73 - 126	44.26	3.69	20
Surr: Toluene-d8	48.1	1.0	50	0	96.2	81 - 120	49.66	3.18	20

ALS Houston, US

Date: 24-Jun-24

Client: Glenn Springs Holdings, Inc.
Project: 11129300 Indian Basin
WorkOrder: HS24061010

QC BATCH REPORT

Batch ID: R469879 (0)	Instrument: VOA11	Method: LOW LEVEL VOLATILES BY SW8260C
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The following samples were analyzed in this batch:

HS24061010-01	HS24061010-02	HS24061010-08
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ALS Houston, US

Date: 24-Jun-24

Client: Glenn Springs Holdings, Inc.

Project: 11129300 Indian Basin

WorkOrder: HS24061010

QC BATCH REPORT

Batch ID: R470005 (0)		Instrument: VOA7		Method: LOW LEVEL VOLATILES BY SW8260C					
MBLK	Sample ID: VBLKW-240619	Units: ug/L		Analysis Date: 19-Jun-2024 22:01					
Client ID:	Run ID: VOA7_470005		SeqNo: 8088681		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Benzene	U	1.0							
Ethylbenzene	U	1.0							
Toluene	U	1.0							
Xylenes, Total	U	3.0							
Surr: 1,2-Dichloroethane-d4	54.27	1.0	50	0	109	70 - 123			
Surr: 4-Bromofluorobenzene	49.33	1.0	50	0	98.7	77 - 113			
Surr: Dibromofluoromethane	50.94	1.0	50	0	102	73 - 126			
Surr: Toluene-d8	47.45	1.0	50	0	94.9	81 - 120			

LCS	Sample ID: VLCSW-240619;	Units: ug/L		Analysis Date: 19-Jun-2024 21:15					
Client ID:	Run ID: VOA7_470005		SeqNo: 8088747		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Benzene	18.97	1.0	20	0	94.8	74 - 120			
Ethylbenzene	18.58	1.0	20	0	92.9	77 - 117			
Toluene	17.8	1.0	20	0	89.0	77 - 118			
Xylenes, Total	55.61	3.0	60	0	92.7	75 - 122			
Surr: 1,2-Dichloroethane-d4	56.07	1.0	50	0	112	70 - 123			
Surr: 4-Bromofluorobenzene	49.2	1.0	50	0	98.4	77 - 113			
Surr: Dibromofluoromethane	50.79	1.0	50	0	102	73 - 126			
Surr: Toluene-d8	49	1.0	50	0	98.0	81 - 120			

MS	Sample ID: HS24061058-02MS	Units: ug/L		Analysis Date: 20-Jun-2024 06:09					
Client ID:	Run ID: VOA7_470005		SeqNo: 8088702		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Benzene	19.36	1.0	20	0	96.8	70 - 127			
Ethylbenzene	19.18	1.0	20	0	95.9	70 - 124			
Toluene	18.89	1.0	20	0	94.5	70 - 123			
Xylenes, Total	57.92	3.0	60	0	96.5	70 - 130			
Surr: 1,2-Dichloroethane-d4	56.24	1.0	50	0	112	70 - 126			
Surr: 4-Bromofluorobenzene	49.44	1.0	50	0	98.9	77 - 113			
Surr: Dibromofluoromethane	51.26	1.0	50	0	103	77 - 123			
Surr: Toluene-d8	49.43	1.0	50	0	98.9	82 - 127			

ALS Houston, US

Date: 24-Jun-24

Client: Glenn Springs Holdings, Inc.
Project: 11129300 Indian Basin
WorkOrder: HS24061010

QC BATCH REPORT

Batch ID: R470005 (0)		Instrument: VOA7		Method: LOW LEVEL VOLATILES BY SW8260C						
MSD	Sample ID: HS24061058-02MSD	Units: ug/L		Analysis Date: 20-Jun-2024 06:32						
Client ID:	Run ID: VOA7_470005		SeqNo: 8088703		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	18.81	1.0	20	0	94.0	70 - 127	19.36	2.9	20	
Ethylbenzene	19.3	1.0	20	0	96.5	70 - 124	19.18	0.649	20	
Toluene	18.84	1.0	20	0	94.2	70 - 123	18.89	0.311	20	
Xylenes, Total	56.74	3.0	60	0	94.6	70 - 130	57.92	2.06	20	
Surr: 1,2-Dichloroethane-d4	55.25	1.0	50	0	111	70 - 126	56.24	1.77	20	
Surr: 4-Bromofluorobenzene	50.8	1.0	50	0	102	77 - 113	49.44	2.71	20	
Surr: Dibromofluoromethane	49.86	1.0	50	0	99.7	77 - 123	51.26	2.77	20	
Surr: Toluene-d8	50.39	1.0	50	0	101	82 - 127	49.43	1.92	20	
The following samples were analyzed in this batch:										
HS24061010-03 HS24061010-05 HS24061010-07										

ALS Houston, US

Date: 24-Jun-24

Client: Glenn Springs Holdings, Inc.
Project: 11129300 Indian Basin
WorkOrder: HS24061010

QC BATCH REPORT

Batch ID: R470181 (0)		Instrument: VOA4		Method: LOW LEVEL VOLATILES BY SW8260C					
MBLK	Sample ID: VBLKW-240621	Units: ug/L		Analysis Date: 21-Jun-2024 14:51					
Client ID:	Run ID: VOA4_470181		SeqNo: 8092672		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Benzene	U	1.0							
Ethylbenzene	U	1.0							
Toluene	U	1.0							
Xylenes, Total	U	3.0							
Surr: 1,2-Dichloroethane-d4	51.45	1.0	50	0	103	70 - 123			
Surr: 4-Bromofluorobenzene	52.42	1.0	50	0	105	77 - 113			
Surr: Dibromofluoromethane	55.85	1.0	50	0	112	73 - 126			
Surr: Toluene-d8	51.96	1.0	50	0	104	81 - 120			

LCS	Sample ID: VLCSW-240621	Units: ug/L		Analysis Date: 21-Jun-2024 13:42					
Client ID:	Run ID: VOA4_470181		SeqNo: 8092670		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Benzene	18.56	1.0	20	0	92.8	74 - 120			
Ethylbenzene	18.47	1.0	20	0	92.3	77 - 117			
Toluene	18.47	1.0	20	0	92.4	77 - 118			
Xylenes, Total	56.18	3.0	60	0	93.6	75 - 122			
Surr: 1,2-Dichloroethane-d4	53.3	1.0	50	0	107	70 - 123			
Surr: 4-Bromofluorobenzene	53.54	1.0	50	0	107	77 - 113			
Surr: Dibromofluoromethane	57.4	1.0	50	0	115	73 - 126			
Surr: Toluene-d8	51.72	1.0	50	0	103	81 - 120			

LCSD	Sample ID: VLCSDW-240621	Units: ug/L		Analysis Date: 21-Jun-2024 14:05					
Client ID:	Run ID: VOA4_470181		SeqNo: 8092671		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Benzene	18.61	1.0	20	0	93.1	74 - 120	18.56	0.275	20
Ethylbenzene	18.39	1.0	20	0	91.9	77 - 117	18.47	0.437	20
Toluene	18.84	1.0	20	0	94.2	77 - 118	18.47	2.01	20
Xylenes, Total	56.38	3.0	60	0	94.0	75 - 122	56.18	0.362	20
Surr: 1,2-Dichloroethane-d4	52.1	1.0	50	0	104	70 - 123	53.3	2.28	20
Surr: 4-Bromofluorobenzene	53.84	1.0	50	0	108	77 - 113	53.54	0.548	20
Surr: Dibromofluoromethane	56.56	1.0	50	0	113	73 - 126	57.4	1.48	20
Surr: Toluene-d8	52.3	1.0	50	0	105	81 - 120	51.72	1.12	20

ALS Houston, US

Date: 24-Jun-24

Client: Glenn Springs Holdings, Inc.
Project: 11129300 Indian Basin
WorkOrder: HS24061010

QC BATCH REPORT

Batch ID: R470181 (0) Instrument: VOA4 Method: LOW LEVEL VOLATILES BY SW8260C

The following samples were analyzed in this batch:

HS24061010-04	HS24061010-06
---------------	---------------

ALS Houston, US

Date: 24-Jun-24

Client: Glenn Springs Holdings, Inc.
Project: 11129300 Indian Basin
WorkOrder: HS24061010

QC BATCH REPORT

Batch ID: R469874 (0)		Instrument: Balance1		Method: TOTAL DISSOLVED SOLIDS BY SM2540C-2011						
MBLK	Sample ID: WMBLK-06192024	Units: mg/L			Analysis Date: 19-Jun-2024 09:30					
Client ID:	Run ID: Balance1_469874	SeqNo: 8086157		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual	
Total Dissolved Solids (Residue, Filterable)		U	10.0							

LCS	Sample ID: WLCS-06192024	Units: mg/L			Analysis Date: 19-Jun-2024 09:30					
Client ID:	Run ID: Balance1_469874	SeqNo: 8086156		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual	
Total Dissolved Solids (Residue, Filterable)		930	10.0	1000	0	93.0	85 - 115			

DUP	Sample ID: HS24061010-01 DUP	Units: mg/L			Analysis Date: 19-Jun-2024 09:30					
Client ID: MW 70	Run ID: Balance1_469874	SeqNo: 8086148		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual	
Total Dissolved Solids (Residue, Filterable)		420	10.0				422	0.475	20	

DUP	Sample ID: HS24060967-02 DUP	Units: mg/L			Analysis Date: 19-Jun-2024 09:30					
Client ID:	Run ID: Balance1_469874	SeqNo: 8086146		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual	
Total Dissolved Solids (Residue, Filterable)		12240	10.0				12260	0.163	20	

The following samples were analyzed in this batch:	HS24061010-01	HS24061010-02	HS24061010-03	HS24061010-04
	HS24061010-05	HS24061010-06	HS24061010-07	

ALS Houston, US

Date: 24-Jun-24

Client: Glenn Springs Holdings, Inc.

Project: 11129300 Indian Basin

WorkOrder: HS24061010

QC BATCH REPORT

Batch ID: R469914 (0)		Instrument: ICS-Integrion		Method: ANIONS BY E300.0, REV 2.1, 1993					
MBLK	Sample ID: MBLK	Units: mg/L			Analysis Date: 19-Jun-2024 06:25				
Client ID:	Run ID: ICS-Integrion_469914		SeqNo: 8086980		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	U	0.500							
LCS	Sample ID: LCS	Units: mg/L			Analysis Date: 19-Jun-2024 06:31				
Client ID:	Run ID: ICS-Integrion_469914		SeqNo: 8086981		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	21.45	0.500	20	0	107	90 - 110			
MS	Sample ID: HS24061010-06MS	Units: mg/L			Analysis Date: 19-Jun-2024 09:45				
Client ID: MW 106	Run ID: ICS-Integrion_469914		SeqNo: 8087007		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	13.92	0.500	10	3.525	104	80 - 120			
MS	Sample ID: HS24061010-01MS	Units: mg/L			Analysis Date: 19-Jun-2024 08:34				
Client ID: MW 70	Run ID: ICS-Integrion_469914		SeqNo: 8086998		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	20.47	0.500	10	10.51	99.6	80 - 120			
MSD	Sample ID: HS24061010-06MSD	Units: mg/L			Analysis Date: 19-Jun-2024 09:50				
Client ID: MW 106	Run ID: ICS-Integrion_469914		SeqNo: 8087008		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	13.98	0.500	10	3.525	105	80 - 120	13.92	0.459	20
MSD	Sample ID: HS24061010-01MSD	Units: mg/L			Analysis Date: 19-Jun-2024 08:40				
Client ID: MW 70	Run ID: ICS-Integrion_469914		SeqNo: 8086999		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	20.53	0.500	10	10.51	100	80 - 120	20.47	0.273	20
The following samples were analyzed in this batch:									
HS24061010-01		HS24061010-02		HS24061010-03		HS24061010-04			
HS24061010-05		HS24061010-06		HS24061010-07					

ALS Houston, US

Date: 24-Jun-24

Client: Glenn Springs Holdings, Inc.
Project: 11129300 Indian Basin
WorkOrder: **HS24061010**

**QUALIFIERS,
ACRONYMS, UNITS**

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

ALS Houston, US

Date: 24-Jun-24

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	88-00356_2024	27-Mar-2025
California	2919; 2025	30-Apr-2025
Florida	E87611-38	30-Jun-2024
Illinois	2000322023-11	30-Jun-2024
Kansas	E-10352 2023-2024	31-Jul-2024
Kentucky	123043	30-Apr-2025
Louisiana	03087 2023-2024	30-Jun-2024
Maryland	343; 2023-2024	30-Jun-2024
North Carolina	624 - 2024	31-Dec-2024
Oklahoma	2023-140	31-Aug-2024
Tennessee	04016	30-Apr-2025
Texas	T104704231 TX-C24-00130	30-Apr-2025
Utah	TX026932023-14	31-Jul-2024

ALS Houston, US

Date: 24-Jun-24

Sample Receipt Checklist

Work Order ID: HS24061010

Date/Time Received: 15-Jun-2024 09:00

Client Name: Glen Springs/CRA

Received by: Ruben Estrada-Jr

Completed By: /S/ Belinda Gomez	17-Jun-2024 13:45	Reviewed by: /S/ Luis Aguilar	17-Jun-2024 22:30
eSignature	Date/Time	eSignature	Date/Time

Matrices: WCarrier name: FedEx

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☒
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	1 Page(s)
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	COC IDs:315802
Samplers name present on COC?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☒	No ☐	
Temperature(s)/Thermometer(s):	2.6uc/2.7c ir31		
Cooler(s)/Kit(s):	blue		
Date/Time sample(s) sent to storage:	6/17/24 1345		
Water - VOA vials have zero headspace?	Yes ☒	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☒
pH adjusted?	Yes ☐	No ☐	N/A ☒
pH adjusted by:			

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

Corrective Action:

Cincinnati, OH
+1 513 733 5336Fort Collins, CO
+1 970 490 1511Everett, WA
+1 425 356 2600Holland, MI
+1 616 399 6070

Chain of Custody Form

Page ____ of ____

COC ID: 315802

Houston, TX
+1 281 530 5656Spring City, PA
+1 610 948 4903Middletown, PA
+1 717 944 5541Salt Lake City, UT
+1 801 266 7700South Charleston, WV
+1 304 356 3168York, PA
+1 717 505 5280

Customer Information		Project Information		ALS Project Manager:		ALS Work Order #:	
Purchase Order	4502865846 767-402-D02-3100	Project Name	11129300 Indian Basin	A	300_W (Chloride) [250PNeat-share]		
Work Order		Project Number	11129300	B	TDS_W 2540C (2540C TDS) [250PNeat-share]		
Company Name	Glenn Springs Holdings, Inc.	Bill To Company	Glenn Springs Holdings, Inc.	C	8260_LL_W (8260 BTEX) - [3xVOAHCI]		
Send Report To	Michelle Kukta	Invoice Attn	Accounts Payable	D			
Address	PO Box 2148	Address	PO Box 2148	E	HS24061010 Glenn Springs Holdings, Inc. 11129300 Indian Basin 		
				F			
City/State/Zip	Houston, TX 77252-2148	City/State/Zip	Houston TX 77252-2148	G			
Phone		Phone		H			
Fax		Fax		I			
e-Mail Address	Michelle.Kukta@ghd.com	e-Mail Address	Chern_GSH@oxy.com	J			

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	MW 70	6/14/24	1200	W		4	K	X	K								
2	MW 111	6/14/24	1000	W		4	X	X	X								
3	MW 419	6/13/24	1335	W		4	X	X	X								
4	MW 66	6/13/24	1520	W		4	X	X	X								
5	MW 127	6/13/24	1340	W		4	X	X	K								
6	MW 100	6/13/24	1210	W		4	X	X	K								
7	MW 88	6/13/24	900	W		4	X	X	K								
8	Trip Blank	6/14/24	—	W		2			X								
9	Temp Blank	6/14/24	—	W		1	X										
10																	

Sampler(s) Please Print & Sign <i>Cory Rodriguez</i>		Shipment Method		Required Turnaround Time: (Check Box) ☒ STD: 10 Wk Days ☐ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hr		Results Due Date:	
Relinquished by:	Date:	Time:	Received by:	Notes: GSH Indian Basin			
Relinquished by:	Date: 6/15/24	Time: 0900	Received by (Laboratory):	Cooler ID: BLUE	Cooler Temp: 2.6	QC Package: (Check One Box Below)	
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	☒ Level II Std QC ☐ TRRP Checklist ☐ Level III Std QC/Row Data ☐ TRRP Level IV ☐ Level IV S/M/B/C/CLP ☐ Other			
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035							

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
 2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
 3. The Chain of Custody is a legal document. All information must be completed accurately.

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EXP 04/25
77099
TX-US
SATURDAY 12:00
PRIORITY OVERNIGHT

XO SGRA

Fedex
7386 7922 4315
TRK# 0221

EXPRESS
E

SHIP DATE: 06/14
ACTUAL: 1.00 LB MIN
CMT: 0221447/CNFE3800

ORIGIN: 10-SGRA (432) 217-2140
TRUCK: RODRIGUEZ
ARCADIS U.S. INC
1004 N BIG SPRING ST, SUITE 121
HOUSTON, TX 77001

UNITED STATES US

10

SAMPLE RECEIVING
ALS GROUP USA, CORP
10450 STANCLIFF ROAD
SUITE 210
HOUSTON TX 77099
(281) 530-6656
REF: ARCADIS-B0101104-LA
RMA: 00000000000000000000000000000000

EXPRESS
E

77099
TX-US
SATURDAY 12:00
PRIORITY OVERNIGHT

XO SGRA

Fedex
7386 7922 4315
TRK# 0221

EXPRESS
E

SHIP DATE: 06/14
ACTUAL: 1.00 LB MIN
CMT: 0221447/CNFE3800

ORIGIN: 10-SGRA (432) 217-2140
TRUCK: RODRIGUEZ
ARCADIS U.S. INC
1004 N BIG SPRING ST, SUITE 121
HOUSTON, TX 77001

UNITED STATES US

10

SAMPLE RECEIVING
ALS GROUP USA, CORP
10450 STANCLIFF ROAD
SUITE 210
HOUSTON TX 77099
(281) 530-6656
REF: ARCADIS-B0101104-LA
RMA: 00000000000000000000000000000000

SEAL

Date: 6/14/24
By: [Signature]

ALS
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel: +1 281 530 5656
Fax: +1 281 530 5687

C2

GUSTODY
Date: _____
Time: _____
Name: _____
Company: _____

APPENDIX D

Laboratory Data Validation Report





Data Verification Report

July 16, 2024

To	Hugh Robotham (hugh.robatham@arcadis.com)	Project No.	11129300
Copy to	Trudy Rodriquez (trudy.rodriquez@arcadis.com)	DVR No.	5
From	Kristen Anders/cs/5-NF	Contact No.	720-245-2750
Project Name	GSHI – Indian Basin	Email	Kristen.anders@ghd.com
Subject	Analytical Results and Data Verification Annual Groundwater Monitoring Glenn Springs Holdings, Inc. – Indian Basin Indian Basin, New Mexico June 2024		

The services undertaken by GHD in connection with preparing this report were limited to those specifically detailed in the report and are subject to the scope limitations set out in the report.

1. Introduction

This document details a reduced validation of analytical results for groundwater samples collected in support of the Annual Groundwater Monitoring at the Indian Basin site during June 2024. Samples were submitted to ALS Environmental located in Houston, Texas. A sample collection and analysis summary is presented in Table 1. The validated analytical results are summarized in Table 2. A summary of the analytical methodology is presented in Table 3.

Standard GHD report deliverables were submitted by the laboratory. The final results and supporting quality assurance/quality control (QA/QC) data were assessed. Evaluation of the data was based on information obtained from the chain of custody forms, finished report forms, method blank data, duplicate data, field QA/QC samples and recovery data from surrogate spikes/laboratory control samples (LCS)/matrix spikes (MS).

The QA/QC criteria by which these data have been assessed are outlined in the analytical methods referenced in Table 3 and applicable guidance from the documents entitled:

- "National Functional Guidelines for Organic Superfund Methods Data Review", United States Environmental Protection Agency (USEPA), 540-R-20-005, November 2020
- "National Functional Guidelines for Inorganic Superfund Methods Data Review", USEPA, 542-R-20-006, November 2020

These items will subsequently be referred to as the "Guidelines" in this report.

2. Sample Holding Time and Preservation

The sample holding time criteria for the analyses are summarized in Table 3. The sample chain of custody document and analytical report were used to determine sample holding times. All samples were prepared and analyzed within the required holding times.

All samples were properly preserved, delivered on ice, and stored by the laboratory at the required temperature (0-6°C).

3. Laboratory Method Blank Analyses

Method blanks are prepared from a purified matrix and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the analytical procedures.

For this study, laboratory method blanks were analyzed at a minimum frequency of one per analytical batch.

All method blank results were non-detect, indicating that laboratory contamination was not a factor for this investigation.

4. Surrogate Spike Recoveries - Organic Analyses

In accordance with the methods employed, all samples, blanks, and QC samples analyzed for organics are spiked with surrogate compounds prior to sample analysis. Surrogate recoveries provide a means to evaluate the effects of laboratory performance on individual sample matrices.

All samples submitted for volatile organic compound (VOC) determinations were spiked with the appropriate number of surrogate compounds prior to sample analysis.

Due to necessary sample dilutions of five times and greater, some surrogate recoveries could not be assessed.

Surrogate recoveries were assessed against laboratory control limits. All surrogate recoveries were within the laboratory control limits.

5. Laboratory Control Sample Analyses

LCS or LCS/laboratory control sample duplicates (LCSD) are prepared and analyzed as samples to assess the analytical efficiencies of the methods employed, independent of sample matrix effects. The relative percent difference (RPD) of the LCS/LCSD recoveries is used to evaluate analytical precision.

For this study, LCS or LCS/LCSD were analyzed at a minimum frequency of one per analytical batch.

Organic Analyses

The LCS/LCSD contained all compounds of interest. All LCS recoveries and RPDs were within the laboratory control limits, demonstrating acceptable analytical accuracy and precision.

Inorganic Analyses

The LCS contained all analytes of interest. LCS recoveries were assessed per the "Guidelines" using the laboratory control limits. All LCS recoveries were within the control limits, demonstrating acceptable analytical accuracy.

6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analyses

To evaluate the effects of sample matrices on the preparation process, measurement procedures, and accuracy of a particular analysis, samples are spiked with a known concentration of the analyte of concern and analyzed as MS/MSD samples. The RPD between the MS and MSD is used to assess analytical precision.

MS/MSD analyses were performed as specified in Table 1.

Organic Analyses

The MS/MSD samples were spiked with all compounds of interest. All percent recoveries and RPD values were within the laboratory control limits, demonstrating acceptable analytical accuracy and precision.

Inorganic Analyses

The MS/MSD samples were spiked with the analytes of interest, and the results were evaluated using the "Guidelines" using the laboratory control limits. All percent recoveries and RPD values were within the control limits, demonstrating acceptable analytical accuracy and precision.

7. Duplicate Sample Analyses – Inorganic Analyses

Analytical precision is evaluated based on the analysis of laboratory duplicate samples. For this study, duplicate samples were prepared and analyzed by the laboratory for total dissolved solids analyses as specified in Table 1. The duplicate results were evaluated per the "Guidelines" using the laboratory control limits.

All duplicate analyses performed met the above criteria demonstrating acceptable analytical precision.

8. Field QA/QC Samples

The field QA/QC consisted of one trip blank sample.

To evaluate contamination from sample collection, transportation, storage, and analytical activities, one trip blank was submitted to the laboratory for VOC analysis. All results were non-detect for the compounds of interest.

9. Analyte Reporting

The laboratory reported detected results down to the laboratory's sample-specific method detection limit (MDL) for each analyte. No positive analyte detections less than the RL but greater than the sample-specific MDL were reported. Non-detect results were presented as non-detect at the RL in Table 2.

10. Conclusion

Based on the assessment detailed in the foregoing, the data summarized in Table 2 are acceptable without qualification.

Regards,



Kristen Anders

Digital Intelligence - Data Management - Data Validator

Table 1

Sample Collection and Analysis Summary
Annual Groundwater Monitoring
Glenn Springs Holdings, Inc. - Indian Basin
Indian Basin, New Mexico
June 2024

Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters			Comments
					VOCs	Anions	TDS	
MW 106	MW-106	Water	06/13/2024	12:10	X	X	X	MS/MSD-P
MW 111	MW-111	Water	06/14/2024	10:00	X	X	X	
MW 127	MW-127	Water	06/13/2024	13:40	X	X	X	
MW 49	MW-49	Water	06/13/2024	18:35	X	X	X	
MW 66	MW-66	Water	06/13/2024	15:20	X	X	X	
MW 70	MW-70	Water	06/14/2024	12:00	X	X	X	MS/MSD-P; DUP
MW 88	MW-88	Water	06/13/2024	09:00	X	X	X	
Trip Blank	-	Water	06/14/2024	-	X			Trip Bank

Notes:

DUP - Laboratory Duplicate
MS/MSD-P - Matrix Spike/Matrix Spike Duplicate (Partial parameters)
VOCs - Volatile Organic Compounds
TDS - Total Dissolved Solids
- - Not applicable

Table 2

Page 1 of 1

**Analytical Results Summary
Annual Groundwater Monitoring
Glenn Springs Holdings, Inc. - Indian Basin
Indian Basin, New Mexico
June 2024**

Location ID:	MW-49	MW-66	MW-70	MW-88	MW-106	MW-111	MW-127
Sample Name:	MW 49	MW 66	MW 70	MW 88	MW 106	MW 111	MW 127
Sample Date:	06/13/2024	06/13/2024	06/14/2024	06/13/2024	06/13/2024	06/14/2024	06/13/2024

Parameters**Unit****Volatile Organic Compounds**

Benzene	µg/L	25 U	1.0 U	1.0 U	25 U	1.0 U	1.0 U	25 U
Ethylbenzene	µg/L	25 U	1.0 U	1.0 U	25 U	1.0 U	1.0 U	25 U
Toluene	µg/L	25 U	1.0 U	1.0 U	25 U	1.0 U	1.0 U	25 U
Xylenes (total)	µg/L	75 U	3.0 U	3.0 U	75 U	3.0 U	3.0 U	75 U

General Chemistry

Chloride	mg/L	294	8.62	10.5	25.3	3.52	30.7	41.9
Total dissolved solids (TDS)	mg/L	3930	702	422	880	348	614	504

Notes:

U - Not detected at the associated reporting limit

Table 3

**Analytical Methods
Annual Groundwater Monitoring
Glenn Springs Holdings, Inc. - Indian Basin
Indian Basin, New Mexico
June 2024**

Parameter	Method	Matrix	<u>Holding Time</u> Collection to Analysis (Days)
Volatile Organic Compounds (VOCs)	SW-846 8260C	Groundwater	14
Anions	EPA 300.0	Groundwater	28
Total Dissolved Solids (TDS)	SM 2540C	Groundwater	7

Method References:

SW-846	- "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, 1986, with subsequent revisions
EPA	- Environmental Protection Agency
SM	- "Standard Methods for the Examination of Water and Wastewater", 18th Edition, 1992, with subsequent revisions

APPENDIX E

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.

Oil Conservation Division * 1220 South St. Francis Drive
* Santa Fe, New Mexico 87505

* Phone: (505) 476-3440 * Fax (505) 476-3462 * <http://www.emnrd.state.nm.us>

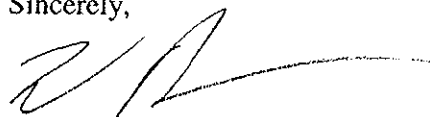


M. Paul Peacock
GW-21
February 20, 2009
Page 2

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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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 592018

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 592018
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
owen.sitler	2024 Annual Groundwater Monitoring Report submission	6/4/2026