GW - 032

Hydrocarbon Seep Correspondence

2021

Certified Mail - Return Receipt Requested

September 14, 2021

John Moore
Environmental Superintendent
Western Refining, Southwest Inc., Gallup Refinery
92 Giant Crossing Road
Gallup, New Mexico 87301

RE: APPROVAL WITH MODIFICATIONS
HYDROCARBON SEEP INTERIM MEASURES 2021 SECOND QUARTER STATUS REPORT
WESTERN REFINING SOUTHWEST INC., GALLUP REFINERY
EPA ID # NMD000333211
HWB-WRG-21-011

Dear Mr. Moore:

The New Mexico Environment Department (NMED) has completed its review of the Marathon Petroleum Company dba Western Refining Southwest Inc., Gallup Refinery (Permittee) *Hydrocarbon Seep Interim Measures 2021 Second Quarter Status Report* (Report), dated July 27, 2021 and received August 3, 2021. NMED has reviewed the Report, and hereby issues this Approval with Modifications with the following comments.

Comment 1

In the *Borrow Pit Activities*, page 2 of 3, paragraph 4, the Permittee states, "[t]he water seep [near the 90-day pad area] was inspected June 22, 2021 and was found to be dry with no evidence of SPH." In addition, separate phase hydrocarbon (SPH) was not detected in well MKTF-42 during the June 2021 gauging event according to Table 2A (Fluid Level Measurements for Wells MKTF-1 through MKTF-50), page 42 of 50. Although SPH was not detected at the water seep, NMED is concerned that SPH may potentially migrate further west toward the 90-day pad area. Comment 5 of the June 2, 2021 NMED's *Disapproval Marketing Tank Farm Laser-induced Fluorescence/Hydraulic Profiling Investigation Report*, states, "the water seep location must also be visually monitored on a monthly basis for potential breakthrough." The Permittee must continue to monitor the water seep location and report the findings in the 2021 third quarter status report.

Comment 2

In the *Borrow Pit Activities*, page 2 of 3, paragraph 5, the Permittee states, "[a] sentinel well was planned to be installed west of the Borrow Pit sumps in the 3rd quarter. Per NMED's [C]omment 5 from [the] Approval with Modifications Hydrocarbon Seep Interim Measures First Quarter Status Report, this well will not be installed. MKTF-32 is located west of the borrow pit and will serve as a sentinel well for the Borrow Pit seep area." Comment 5 of the NMED's July 6, 2021 *Approval with Modifications*, states, "the monitoring well proposed to be installed west of the borrow pit seep area does not appear to be necessary based on the results of the LIF investigation because well MKTF-32 is located west of the borrow pit seep area and may serve as a sentinel well. Provide a discussion in the 2021 second quarter status report." To clarify, Comment 5 constitutes an opinion about the necessity of the proposed monitoring well rather than directing the Permittee to use well MKTF-32 as a sentinel well. The comment requires the Permittee to evaluate and discuss whether well MKTF-32 is appropriate for use as a sentinel well for monitoring SPH migration. Evaluate and discuss whether the proposed monitoring well is necessary or if well MKTF-32 is adequate to monitor SPH migration west of the Borrow Pit seep area in the 2021 third quarter status report.

Comment 3

In the *3rd Quarter 2021 IM Activities, Investigations, Hydrocarbon Seep Area Wells,* page 3 of 3, paragraph 2, the Permittee states, "[t]he replaced wells will provide a more accurate representation of SPH plume delineation. The existing wells [MKTF-1, MKTF-2, MKTF-4, MKTF-17, and MKTF-18] will be plugged and abandoned." Existing wells MKTF-1, MKTF-2, MKTF-4, MKTF-17, and MKTF-18 must not be plugged and abandoned; they must be preserved at this time. Furthermore, the replacement wells must be installed adjacent to the existing wells. NMED will evaluate the abandonment of the existing wells once the data collected from the existing and replacement wells are compared and evaluated. The Permittee must monitor the existing and replacement wells (once they have been installed) and submit the evaluation in a future status report. Acknowledge this provision in the 2021 third quarter status report.

Comment 4

Table 2A (Fluid Level Measurements for Wells MKTF-1 through MKTF-50), page 49 of 50, reports the first appearance of SPH in well MKTF-49 in June 16, 2021. Well MKTF-49 is located directly downgradient from, and between, Tanks 101 and 102. Crude oil was previously stored in these tanks but are reportedly not in use. Confirm that Tanks 101 and 102 are not currently in use and describe the nature of the detected SPH in well MKTF-49 in the 2021 third quarter status report.

Comment 5

Table 3A (April Vacuum Truck Extractions – MKTF-Wells) and 3C (May Vacuum Truck Extractions – MKTF-Wells) indicate that groundwater was not recovered; only SPH was recovered from well MKTF-20 during the recovery events. However, according to Table 2A, page 20 of 50, groundwater was present in well MKTF-20 during the April and May 2021 recovery events.

Explain the discrepancy in the 2021 third quarter status report.

The Permittee has fulfilled its obligation to implement source control measures to the extent practicable and to submit a quarterly report to NMED. The Permittee must continue to implement source control measures at the site and submit quarterly status reports. The 2021 third quarter status report that addresses the comments included above must be submitted no later than **November 5, 2021**.

This approval is based on the information presented in the document as it relates to the objectives of the work identified by NMED at the time of review. Approval of this document does not constitute agreement with all information or every statement presented in the document.

If you have questions regarding this letter, please contact Michiya Suzuki of my staff at 505-690-6930.

Sincerely,

Dave Cobrain
Program Manager
Hazardous Waste Bureau

cc: L. Tsinnajinnie, NMED HWB
M. Suzuki, NMED HWB
T. McDill, EMNRD OCD
L. King, EPA Region 6 (6LCRRC)

File: Reading File and WRG 2021 file

Certified Mail - Return Receipt Requested

August 23, 2021

John Moore
Environmental Superintendent
Western Refining, Southwest Inc., Gallup Refinery
92 Giant Crossing Road
Gallup, New Mexico 87301

RE: APPROVAL
REQUEST FOR EXTENSION, RESPONSE TO DISAPPROVAL, NATURAL ATTENUATION ASSESSMENT AND PROPOSED WORK PLAN FOR THE HYDROCARBON SEEP AREA, FRENCH DRAIN SOIL SAMPLING INVESTIGATION WORK PLAN
WESTERN REFINING SOUTHWEST INC., GALLUP REFINERY
EPA ID # NMD000333211
HWB-WRG-20-023

Dear Mr. Moore:

The New Mexico Environment Department (NMED) is in receipt of the Marathon Petroleum Company dba Western Refining Southwest Inc., Gallup Refinery (Permittee) *Request for Extension, Response to Disapproval, Natural Attenuation Assessment and Proposed Work Plan for the Hydrocarbon Seep Area, French Drain Soil Sampling Investigation Work Plan* (Request), dated July 29, 2021.

The Request includes two separate titles of the documents to be submitted to NMED for review. One is the revised *Natural Attenuation Assessment and Proposed Workplan for the Hydrocarbon Seep Area* (Report) and the other is the [response to *Approval with Modifications*] *French Drain Soil Sampling Investigation Work Plan* (Response). The Permittee's *Request for Extension French Drain Soil Sampling Investigation Work Plan* was approved on June 14, 2021 and the due date for the Response was extended to **September 30, 2021**. Therefore, the extension request is not necessary. This Request only applies to the Report.

The Request states, "[t]he basis for the extension is to incorporate an expanded data set and perform additional statistical analyses. These additional data will be used to demonstrate that the evaluation is complete and addresses the data gaps identified in the NMED comments. Because of this effort, the refinery is requesting an additional four weeks to finalize the report."

The Permittee has shown good cause for the request in accordance with the Permit Section I.J.12; therefore, NMED grants the extension. The Report must be submitted to NMED no later than **August 27, 2021**, as requested.

If you have any questions regarding this correspondence, please contact Michiya Suzuki at (505) 690-6930.

Sincerely,

Dave Cobrain
Program Manager
Hazardous Waste Bureau

cc: L. Tsinnajinnie, NMED HWB
M. Suzuki, NMED HWB
T. McDill, OCD
L. King, EPA Region 6 (6LCRRC)

File: Reading File and WRG 2021 file

Certified Mail - Return Receipt Requested

August 10, 2021

John Moore
Environmental Superintendent
Western Refining, Southwest Inc., Gallup Refinery
92 Giant Crossing Road
Gallup, New Mexico 87301

RE: APPROVAL
REQUEST FOR EXTENSION, RESPONSE TO DISAPPROVAL, NATURAL ATTENUATION ASSESSMENT AND PROPOSED WORK PLAN FOR THE HYDROCARBON SEEP AREA, FRENCH DRAIN SOIL SAMPLING INVESTIGATION WORK PLAN
WESTERN REFINING SOUTHWEST INC., GALLUP REFINERY
EPA ID # NMD000333211
HWB-WRG-MISC

Dear Mr. Moore:

The New Mexico Environment Department (NMED) is in receipt of the Marathon Petroleum Company dba Western Refining Southwest Inc., Gallup Refinery (Permittee) *Request for Work Plan Modifications Investigation Work Plan No. 2 – Area of Concern 35* (Request), dated August 3, 2021.

The Permittee requests an extension because "[t]he Refinery is seeking to modify the approved investigation Work Plan to harmonize the proposed soil investigation/well installation with the LIF/HP results to bolster the understanding of subsurface conditions in the area and correlate the analytical results with the LIF/HP results. The Refinery is seeking to adjust the due date of the investigation report from the verbally agreed to date of September 30, 2021 to December 31, 2021. Upon approval of this request the Refinery will submit a modified Work Plan to NMED for approval on or before August 27, 2021."

The Permittee has shown good cause for the request in accordance with the Permit Section I.J.12; therefore, NMED grants the extension. The investigation report and the Work Plan must be submitted to NMED no later than **December 31, 2021** and **August 27, 2021**, respectively, as requested.

If you have any questions regarding this correspondence, please contact Michiya Suzuki at (505) 690-6930.

Sincerely,

Dave Cobrain
Program Manager
Hazardous Waste Bureau

cc: L. Tsinnajinnie, NMED HWB
M. Suzuki, NMED HWB
T. McDill, OCD
L. King, EPA Region 6 (6LCRRC)

File: Reading File and WRG 2021 file

Western Refining Southwest LLC
A subsidiary of Marathon Petroleum Corporation
I-40 Exit 39
Jamestown, NM 87347

July 27, 2021

Mr. Kevin Pierard, Chief
New Mexico Environment Department
Hazardous Waste Bureau
2905 Rodeo Park Drive East, Building 1
Santa Fe, NM 87505

RE: Hydrocarbon Seep Interim Measures 2021 Second Quarter Status Report
Marathon Gallup Refinery
(dba Western Refining Southwest LLC)
EPA ID# NMD000333211

Dear Mr. Pierard,

Please find enclosed the Hydrocarbon Seep Interim Measures Status Report for the second quarter of 2021 for the Marathon Gallup Refinery (MGR). MGR has included the response to NMED's, *Approval with Modifications, Hydrocarbon Seep Interim Measures 2021 First Quarter Status Report*, dated July 6, 2021, in Attachment A. If you have any questions or comments regarding the information contained herein, please do not hesitate to contact John Moore at (505) 879-7643.

Certification

I certify under penalty of law that this document and all attachments were prepared under my direction of supervision according to a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,
Western Refining Southwest LLC, Marathon Gallup Refinery

Ruth A. Cade

Ruth Cade
Vice-President

Enclosure

cc: D. Cobrain, NMED HWB
T. McDill, OCD
K. Luka, MPC
H. Jones, Trihydro Corporation
M. Suzuki, NMED HWB
G. McCartney, MPC
J. Moore, Gallup Refinery

QUARTERLY STATUS REPORT
HYDROCARBON SEEP INTERIM MEASURES
MARATHON GALLUP REFINERY
2nd Quarter 2021

This document provides the 2nd Quarter 2021 Status Report for Interim Measures (IM) activities associated with the Hydrocarbon Seep Area at Marathon Gallup Refinery (MGR), Gallup, New Mexico. Presented below are summaries of specific activities related to source control of the Hydrocarbon Seep Area, monthly fluid levels readings, and withdrawal of separate phase hydrocarbon (SPH) and associated groundwater. The gasoline release discovered in October 2019 near the Truck Loading Rack is south of the Hydrocarbon Seep Area. This document presents fluid recovery information from the marketing tank farm (MKTF) wells in the area of the truck loading rack release as well as summaries of recovery efforts in the area of the newly installed Borrow Pit Sumps.

Hydrocarbon Seep Source Control

The refinery has remained in indefinite idle status since April 2020. Refinery resources and personnel were operating at a reduced capacity and have focused on maintenance during the second quarter. Activities and observations of note for the Hydrocarbon Seep Area include:

- There were 14,700 gallons (gals) of water and no SPH recovered from the standpipe sumps (S1 – S6) during the second quarter.
- There was no recovery from the retention ditch during this quarter because there was no standing water.

The Hydrocarbon Seep Area is shown on Figure 1. Standpipe and retention ditch data are presented in Tables 1A and 1B. There were no notable trends in changing fluid levels in the MKTF wells upgradient or in the vicinity of the Hydrocarbon Seep Area. With the exception of MKTF-17, which had a decrease of 3.06 feet (ft), all other variations in fluid levels were less than 1 foot (ft) when compared to 1st Quarter levels. MKTF-29 increased 1.08 ft and is downgradient of the Hydrocarbon Seep Area.

Monthly Fluid Levels

Monthly fluid level data are found in Tables 2A and 2B. Despite monthly fluid extraction and the idling of the refinery, fluid levels in the MKTF area have shown no significant changes from last quarter and continued to rise and fall seasonally without substantial change from the months prior to the refinery being placed in idle status. Fluid levels outside of the MKTF also show no significant changes from last quarter. MGR is currently evaluating PW-3 to determine if potable water is being lost through casing leaks. A memorandum detailing the findings of the PW-3 evaluation will be submitted no later than September 30, 2021.

Fluids Recovery

Fluid recovery in MKTF wells upgradient of the Hydrocarbon Seep Area, with recoverable SPH, continued during the 2nd Quarter of 2021 using a vacuum truck. There was a total of 251 gals of water and 42 gals of SPH extracted in the 2nd Quarter. The SPH extraction data are shown in Tables 3A through 3E. As requested in Comment 2 in NMED's *Approval with Modifications Hydrocarbon Seep Interim Measures*

2020 Fourth Quarter Status Report, dated March 30, 2021, fluid levels are taken 24 hours after vacuum truck extractions and are presented in Tables 3A through 3E.

Surface Observations

Pursuant to NMED's letter on March 5, 2019, the area of the seeps is routinely monitored to evaluate the discharge of hydrocarbons to the land surface where shallow water discharges within the retention ditch and to the south near the original seep location. The measurable amount of SPH discharging into the retention ditch has essentially stopped. MGR will continue to monitor the area and if substantial fluid comes back into the area, it will be recovered.

Borrow Pit Activities

Five sumps and two piezometers were installed in the Borrow Pit west of the Truck Loading Rack after a gasoline seep was found in the area (Figure 2). Fluid recovery from the sumps began on May 10, 2021 via vacuum truck and continues to be performed four days a week. A total of 900 gals of SPH were recovered in the 2nd Quarter. The Borrow Pit IM report summarizing installation information was submitted to NMED on July 13, 2021.

During the Sitewide laser induced fluorescence (LIF) investigation performed during the 2nd Quarter, additional LIF borings were installed in the Borrow Pit area to further delineate the gasoline plume to the west toward the 90-day pad. Results from the Sitewide LIF Investigation will be submitted to NMED in a report by August 1, 2021. As requested by NMED in comment 5 from *Disapproval Marketing Tank Farm Laser-Induced Fluorescence/Hydraulic Profiling Investigation Report*, dated June 2, 2021, the water seep near the 90-day pad will be monitored monthly for indications of SPH (Figure 2). The water seep was inspected June 22, 2021 and was found to be dry with no evidence of SPH.

A sentinel well was planned to be installed west of the Borrow Pit sumps in the 3rd quarter. Per NMED's comment 5 from *Approval with Modifications Hydrocarbon Seep Interim Measures First Quarter Status Report,* this well will not be installed. MKTF-32 is located west of the borrow pit and will serve as a sentinel well for the Borrow Pit seep area.

3rd Quarter 2021 IM Activities

Following is a list of activities that are associated with ongoing IM activities to be completed in the 3rd Quarter 2021.

Monitoring - Monthly groundwater gauging will continue through 2021.

Source Control - MGR will continue recovery operations at the standpipe sumps and the retention ditch using a vacuum truck to pump SPH and water from each of the sumps and the downstream retention ditch (when water is present in the retention ditch). The fluid volumes in the standpipe sumps and retention ditch will continue to be monitored and recovery efforts will be adjusted as necessary.

Recovery operations will continue in the borrow pit sumps at a rate of 3 to 4 times per week.

Investigations – The following investigative activities that pertain to seeps and releases at the Gallup Refinery are scheduled for the 3rd Quarter 2021.

- **Sanitary Lagoon Investigation** - The Sanitary Lagoon Investigation Report was submitted to NMED on February 17, 2020, providing information on subsurface SPH distribution in this area. The portion of the investigation along the pipeline was not completed due to the gasoline leak in the Truck Loading area found on October 27, 2019. Investigation in the area along the pipeline has been proposed in an updated work plan, submitted to NMED on March 29, 2021 and an Approval with Modifications was received from NMED on April 26, 2021. MGR will submit the response letter, and replacement pages no later than July 30, 2021.

  Hydrocarbon Seep Area Wells - Multiple monitoring wells will be installed in the third quarter. In the areas relating to the Hydrocarbon Seep Area, these include replacement wells for MKTF-1, MKTF-2, MKTF-4, MKTF-17, and MKTF-18. These monitoring wells have historically been or are currently submerged and are being replaced with wells that have the appropriate screened intervals. The replaced wells will provide a more accurate representation of SPH plume delineation. The existing wells will be plugged and abandoned. The locations for the monitoring well installations are shown on Figure 3.

- **AOC 35** - An Investigation Work Plan (IWP) for Area of Concern (AOC) 35, which includes the area around the Marketing Tanks and the Truck Loading Racks, was approved with modifications on September 12, 2019. However, this investigation was postponed for revision due to the gasoline leak in the Truck Loading area found on October 27, 2019. The AOC 35 investigation and report are schedule for completion by September 30, 2021.

TABLES

TABLE 1A. STANDPIPE RECOVERY RECORDS
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

DATE	hydrocarbon recovered (gallons)	water pumped (gallons)	total fluid pumped (gallons)
2013 Totals	**2,762**	**115,935**	**118,697**
2014 Totals	**2,108**	**242,182**	**244,290**
2015 Totals	**1,071**	**188,634**	**189,707**
2016 Totals	**8,668**	**357,619**	**366,287**
2017 Totals	**4,238**	**365,712**	**369,950**
2018 Totals	**162**	**279,538**	**279,700**
2019 Totals	**-**	**158,943**	**158,943**
1st Quarter 2020 Totals	**-**	**-**	**-**
4/1/2021	-	3,000	3,000
2nd Quarter 2020 Totals	**-**	**3,000**	**3,000**
3rd Quarter 2020 Totals	**-**	**-**	**-**
12/15/2020	-	4,500	4,500
4th Quarter 2020 Totals	**-**	**4,500**	**4,500**
1/28/2021	-	4,500	4,500
2/22/2021	-	4,500	4,500
3/31/2021	-	4,000	4,000
1st Quarter 2021 Totals	**-**	**13,000**	**13,000**
4/22/2021	-	5,400	5,400
5/12/2021	-	4,800	4,800
6/7/2021	-	4,500	4,500
2nd Quarter 2021 Totals	**-**	**14,700**	**14,700**
Project Totals	**19,009**	**1,743,763**	**1,762,774**

TABLE 1B. RETENTION DITCH RECOVERY RECORDS
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

DATE	Truck Loads	Water/Oil Mixture (gallons)	Oil (gallons)
2016 Totals	**63**	**340,200**	**NR**
2017 Totals	**54**	**194,550**	**1,890**
2018 Totals	**38**	**78,780**	**1,426**
2019 Totals	**17**	**34,451**	**1,008**
1st Quarter 2020 Totals	**Dry**	**Dry**	**Dry**
2nd Quarter 2020 Totals	**Dry**	**Dry**	**Dry**
9/1/2020	1	200	2
3rd Quarter 2020 Totals	**1**	**200**	**2**
4th Quarter 2020 Totals	**Dry**	**Dry**	**Dry**
1st Quarter 2021 Totals	**Dry**	**Dry**	**Dry**
2nd Quarter 2021 Totals	**Dry**	**Dry**	**Dry**

Project Totals	**173**	**648,181**	**4,326**

TABLE 2A. FLUID LEVEL MEASUREMENTS FOR WELLS MKTF-1 THROUGH MKTF-50
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground-water Elevation (ft)	Corrected Water Table[1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
MKTF-01	11/19/19	4.00	17.42	5.14	0.31	5.45	6,915.22	6915.47	5 - 15	Chinle/Alluvium Interface
MKTF-01	02/24/20	4.00	17.42	4.87	0.29	5.16	6,915.51	6915.74	5 - 15	Chinle/Alluvium Interface
MKTF-01	06/26/20	4.00	17.42	5.50	0.21	5.71	6,914.96	6915.13	5 - 15	Chinle/Alluvium Interface
MKTF-01	09/15/20	4.00	17.48	5.61	0.01	5.62	6,915.05	6915.06	5 - 15	Chinle/Alluvium Interface
MKTF-01	11/10/20	4.00	17.48	5.61	0.28	5.89	6,914.78	6915.00	5 - 15	Chinle/Alluvium Interface
MKTF-01	12/03/20	4.00	17.43	5.74	0.28	6.02	6,914.65	6914.87	5 - 15	Chinle/Alluvium Interface
MKTF-01	01/28/21	4.00	17.43	7.60	0.48	8.08	6,912.59	6912.97	5 - 15	Chinle/Alluvium Interface
MKTF-01	02/28/21	4.00	17.45	5.70	0.23	5.93	6,914.74	6914.92	5 - 15	Chinle/Alluvium Interface
MKTF-01	03/31/21	4.00	17.45	6.09	0.24	6.33	6,914.34	6914.53	5 - 15	Chinle/Alluvium Interface
MKTF-01	04/26/21	4.00	17.45	5.88	0.34	6.22	6,914.45	6914.72	5 - 15	Chinle/Alluvium Interface
MKTF-01	05/20/21	4.00	17.45	6.41	0.36	6.77	6,913.90	6914.19	5 - 15	Chinle/Alluvium Interface
MKTF-01	06/01/21	4.00	17.38	5.81	0.31	6.12	6,914.55	6914.80	5 - 15	Chinle/Alluvium Interface

TABLE 2A. FLUID LEVEL MEASUREMENTS FOR WELLS MKTF-1 THROUGH MKTF-50
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground-water Elevation (ft)	Corrected Water Table[1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
MKTF-02	11/19/19	4.00	20.35	ND	0.00	7.14	6,910.31	NA	7 - 17	Chinle/Alluvium Interface
MKTF-02	02/24/20	4.00	20.48	ND	0.00	6.52	6,910.93	NA	7 - 17	Chinle/Alluvium Interface
MKTF-02	06/26/20	4.00	20.48	ND	0.00	7.70	6,909.75	NA	7 - 17	Chinle/Alluvium Interface
MKTF-02	09/15/20	4.00	20.54	ND	0.00	7.88	6,909.57	NA	7 - 17	Chinle/Alluvium Interface
MKTF-02	11/10/20	4.00	20.54	ND	0.00	7.43	6,910.02	NA	7 - 17	Chinle/Alluvium Interface
MKTF-02	12/03/20	4.00	20.54	ND	0.00	7.72	6,909.73	NA	7 - 17	Chinle/Alluvium Interface
MKTF-02	01/28/21	4.00	20.54	ND	0.00	7.75	6,909.70	NA	7 - 17	Chinle/Alluvium Interface
MKTF-02	02/28/21	4.00	20.54	ND	0.00	7.14	6,910.31	NA	7 - 17	Chinle/Alluvium Interface
MKTF-02	03/31/21	4.00	20.54	ND	0.00	7.84	6,909.61	NA	7 - 17	Chinle/Alluvium Interface
MKTF-02	04/26/21	4.00	20.54	ND	0.00	7.78	6,909.67	NA	7 - 17	Chinle/Alluvium Interface
MKTF-02	05/20/21	4.00	20.54	ND	0.00	8.11	6,909.34	NA	7 - 17	Chinle/Alluvium Interface
MKTF-02	06/01/21	4.00	20.54	ND	0.00	8.02	6,909.43	NA	7 - 17	Chinle/Alluvium Interface

TABLE 2A. FLUID LEVEL MEASUREMENTS FOR WELLS MKTF-1 THROUGH MKTF-50
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground-water Elevation (ft)	Corrected Water Table[1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
MKTF-03	10/30/19	4.00	18.45	6.70	1.30	8.00	6,923.69	6,924.73	3 - 18	Chinle/Alluvium Interface
MKTF-03	03/05/20	4.00	18.45	6.47	1.37	7.84	6,923.85	6924.95	3 - 18	Chinle/Alluvium Interface
MKTF-03	06/26/20	4.00	18.45	7.36	1.27	8.63	6,923.06	6924.08	3 - 18	Chinle/Alluvium Interface
MKTF-03	09/15/20	4.00	18.59	7.08	0.01	7.09	6,924.60	6924.61	3 - 18	Chinle/Alluvium Interface
MKTF-03	11/10/20	4.00	18.59	7.13	1.30	8.43	6,923.26	6924.30	3 - 18	Chinle/Alluvium Interface
MKTF-03	12/03/20	4.00	18.58	7.46	1.16	8.62	6,923.07	6924.00	3 - 18	Chinle/Alluvium Interface
MKTF-03	12/26/20	4.00	18.57	7.83	0.91	8.74	6,922.95	6923.68	3 - 18	Chinle/Alluvium Interface
MKTF-03	01/28/21	4.00	18.57	7.80	0.93	8.73	6,922.96	6923.70	3 - 18	Chinle/Alluvium Interface
MKTF-03	02/28/21	4.00	18.62	7.46	0.93	8.39	6,923.30	6924.04	3 - 18	Chinle/Alluvium Interface
MKTF-03	03/31/21	4.00	18.62	7.20	1.03	8.23	6,923.46	6924.28	3 - 18	Chinle/Alluvium Interface
MKTF-03	04/26/21	4.00	18.62	7.11	0.80	7.91	6,923.78	6924.42	3 - 18	Chinle/Alluvium Interface
MKTF-03	05/20/21	4.00	18.62	7.28	1.09	8.37	6,923.32	6924.19	3 - 18	Chinle/Alluvium Interface
MKTF-03	06/01/21	4.00	18.62	7.33	1.13	8.46	6,923.23	6924.13	3 - 18	Chinle/Alluvium Interface

TABLE 2A. FLUID LEVEL MEASUREMENTS FOR WELLS MKTF-1 THROUGH MKTF-50
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground-water Elevation (ft)	Corrected Water Table[1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
MKTF-04	10/30/19	4.00	22.30	ND	0.00	8.93	6,924.64	NA	10 - 22	Chinle/Alluvium Interface
MKTF-04	03/02/20	4.00	22.21	ND	0.00	8.47	6,925.10	NA	10 - 22	Chinle/Alluvium Interface
MKTF-04	06/26/20	4.00	22.15	ND	0.00	9.75	6,923.82	NA	10 - 22	Chinle/Alluvium Interface
MKTF-04	09/15/20	4.00	22.72	9.39	0.01	9.40	6,924.17	6924.18	10 - 22	Chinle/Alluvium Interface
MKTF-04	11/10/20	4.00	22.72	ND	0.00	9.20	6,924.37	NA	10 - 22	Chinle/Alluvium Interface
MKTF-04	12/03/20	4.00	22.72	9.70	0.01	9.71	6,923.86	6923.87	10 - 22	Chinle/Alluvium Interface
MKTF-04	01/28/21	4.00	22.72	ND	0.00	10.14	6,923.43	NA	10 - 22	Chinle/Alluvium Interface
MKTF-04	02/28/21	4.00	22.72	9.84	0.12	9.96	6,923.61	6923.71	10 - 22	Chinle/Alluvium Interface
MKTF-04	03/31/21	4.00	22.72	9.21	0.02	9.23	6,924.34	6924.36	10 - 22	Chinle/Alluvium Interface
MKTF-04	04/26/21	4.00	22.72	9.20	0.02	9.22	6,924.35	6924.37	10 - 22	Chinle/Alluvium Interface
MKTF-04	05/20/21	4.00	22.72	9.28	0.10	9.38	6,924.19	6924.27	10 - 22	Chinle/Alluvium Interface
MKTF-04	06/01/21	4.00	22.72	9.19	0.03	9.22	6,924.35	6924.37	10 - 22	Chinle/Alluvium Interface

TABLE 2A. FLUID LEVEL MEASUREMENTS FOR WELLS MKTF-1 THROUGH MKTF-50
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground-water Elevation (ft)	Corrected Water Table[1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
MKTF-05	12/02/19	4.00	17.75	10.64	6.53	17.17	6,925.05	6930.27	4 - 14	Chinle/Alluvium Interface
MKTF-05	03/05/20	4.00	17.75	13.58	0.14	13.72	6,928.50	6928.61	4 - 14	Chinle/Alluvium Interface
MKTF-05	06/25/20	4.00	17.75	14.06	0.75	14.80	6,927.42	6928.02	4 - 14	Chinle/Alluvium Interface
MKTF-05	09/15/20	4.00	17.83	13.65	1.03	14.68	6,927.54	6928.36	4 - 14	Chinle/Alluvium Interface
MKTF-05	11/10/20	4.00	17.83	14.02	0.88	14.90	6,927.32	6928.02	4 - 14	Chinle/Alluvium Interface
MKTF-05	12/03/20	4.00	17.80	14.12	0.81	14.93	6,927.29	6927.94	4 - 14	Chinle/Alluvium Interface
MKTF-05	01/28/21	4.00	17.80	14.94	0.19	15.13	6,927.09	6927.24	4 - 14	Chinle/Alluvium Interface
MKTF-05	02/28/21	4.00	17.77	14.60	0.15	14.75	6,927.47	6927.59	4 - 14	Chinle/Alluvium Interface
MKTF-05	03/31/21	4.00	17.77	14.99	0.06	15.05	6,927.17	6927.22	4 - 14	Chinle/Alluvium Interface
MKTF-05	04/26/21	4.00	17.77	15.03	0.14	15.17	6,927.05	6927.16	4 - 14	Chinle/Alluvium Interface
MKTF-05	05/20/21	4.00	17.77	15.02	0.07	15.09	6,927.13	6927.19	4 - 14	Chinle/Alluvium Interface
MKTF-05	06/01/21	4.00	17.77	14.88	0.08	14.96	6,927.26	6927.32	4 - 14	Chinle/Alluvium Interface

TABLE 2A. FLUID LEVEL MEASUREMENTS FOR WELLS MKTF-1 THROUGH MKTF-50
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground-water Elevation (ft)	Corrected Water Table[1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
MKTF-06	12/02/19	4.00	23.77	14.75	6.61	21.36	6,925.45	6930.74	8 - 20	Chinle/Alluvium Interface
MKTF-06	03/05/20	4.00	23.77	16.89	1.71	18.60	6,928.21	6929.58	8 - 20	Chinle/Alluvium Interface
MKTF-06	06/25/20	4.00	23.77	14.05	4.86	18.90	6,927.91	6931.79	8 - 20	Chinle/Alluvium Interface
MKTF-06	09/15/20	4.00	23.79	16.78	1.93	18.71	6,928.10	6929.64	8 - 20	Chinle/Alluvium Interface
MKTF-06	11/10/20	4.00	23.79	17.20	1.39	18.59	6,928.22	6929.33	8 - 20	Chinle/Alluvium Interface
MKTF-06	12/03/20	4.00	23.79	17.38	1.11	18.49	6,928.32	6929.21	8 - 20	Chinle/Alluvium Interface
MKTF-06	01/28/21	4.00	23.79	18.09	1.56	19.65	6,927.16	6928.41	8 - 20	Chinle/Alluvium Interface
MKTF-06	02/28/21	4.00	23.85	17.93	0.72	18.65	6,928.16	6928.74	8 - 20	Chinle/Alluvium Interface
MKTF-06	03/31/21	4.00	23.85	17.97	0.18	18.15	6,928.66	6928.80	8 - 20	Chinle/Alluvium Interface
MKTF-06	04/26/21	4.00	23.85	17.88	0.07	17.95	6,928.86	6928.92	8 - 20	Chinle/Alluvium Interface
MKTF-06	05/20/21	4.00	23.85	18.01	0.12	18.13	6,928.68	6928.78	8 - 20	Chinle/Alluvium Interface
MKTF-06	06/01/21	4.00	23.85	18.09	0.16	18.25	6,928.56	6928.69	8 - 20	Chinle/Alluvium Interface

TABLE 2A. FLUID LEVEL MEASUREMENTS FOR WELLS MKTF-1 THROUGH MKTF-50
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground-water Elevation (ft)	Corrected Water Table[1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
MKTF-07	12/02/19	4.00	17.62	11.38	5.74	17.12	6,930.06	6934.65	4 - 14	Chinle/Alluvium Interface
MKTF-07	03/05/20	4.00	17.62	12.50	1.22	13.72	6,933.46	6934.44	4 - 14	Chinle/Alluvium Interface
MKTF-07	06/25/20	4.00	17.62	12.23	1.53	13.76	6,933.42	6934.64	4 - 14	Chinle/Alluvium Interface
MKTF-07	09/18/20	4.00	17.43	11.42	2.35	13.77	6,933.41	6935.29	4 - 14	Chinle/Alluvium Interface
MKTF-07	11/10/20	4.00	17.43	12.56	1.20	13.76	6,933.42	6934.38	4 - 14	Chinle/Alluvium Interface
MKTF-07	12/03/20	4.00	17.66	12.93	0.87	13.80	6,933.38	6934.08	4 - 14	Chinle/Alluvium Interface
MKTF-07	01/28/21	4.00	17.66	13.80	0.40	14.20	6,932.98	6933.30	4 - 14	Chinle/Alluvium Interface
MKTF-07	02/28/21	4.00	17.86	13.51	0.21	13.72	6,933.46	6933.63	4 - 14	Chinle/Alluvium Interface
MKTF-07	03/31/21	4.00	17.86	13.70	0.11	13.81	6,933.37	6933.46	4 - 14	Chinle/Alluvium Interface
MKTF-07	04/26/21	4.00	17.86	13.51	0.25	13.76	6,933.42	6933.62	4 - 14	Chinle/Alluvium Interface
MKTF-07	05/20/21	4.00	17.86	13.68	0.13	13.81	6,933.37	6933.47	4 - 14	Chinle/Alluvium Interface
MKTF-07	06/01/21	4.00	17.86	13.52	0.11	13.63	6,933.55	6933.64	4 - 14	Chinle/Alluvium Interface

TABLE 2A. FLUID LEVEL MEASUREMENTS FOR WELLS MKTF-1 THROUGH MKTF-50
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground-water Elevation (ft)	Corrected Water Table[1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
MKTF-08	12/02/19	4.00	21.98	13.72	0.41	14.13	6,932.96	6933.29	8 - 18	Chinle/Alluvium Interface
MKTF-08	03/05/20	4.00	21.98	14.03	0.34	14.37	6,932.72	6932.99	8 - 18	Chinle/Alluvium Interface
MKTF-08	06/25/20	4.00	21.98	14.00	0.40	14.40	6,932.69	6933.01	8 - 18	Chinle/Alluvium Interface
MKTF-08	09/18/20	4.00	22.00	13.76	0.39	14.15	6,932.94	6933.25	8 - 18	Chinle/Alluvium Interface
MKTF-08	11/10/20	4.00	22.00	14.23	0.46	14.69	6,932.40	6932.77	8 - 18	Chinle/Alluvium Interface
MKTF-08	12/03/20	4.00	22.01	14.36	0.40	14.76	6,932.33	6932.65	8 - 18	Chinle/Alluvium Interface
MKTF-08	01/28/21	4.00	22.01	14.84	0.31	15.15	6,931.94	6932.19	8 - 18	Chinle/Alluvium Interface
MKTF-08	02/28/21	4.00	22.00	14.76	0.13	14.89	6,932.20	6932.30	8 - 18	Chinle/Alluvium Interface
MKTF-08	03/31/21	4.00	22.00	14.60	0.10	14.70	6,932.39	6932.47	8 - 18	Chinle/Alluvium Interface
MKTF-08	04/26/21	4.00	22.00	14.64	0.11	14.75	6,932.34	6932.43	8 - 18	Chinle/Alluvium Interface
MKTF-08	05/20/21	4.00	22.00	14.63	0.08	14.71	6,932.38	6932.44	8 - 18	Chinle/Alluvium Interface
MKTF-08	06/01/21	4.00	22.00	14.71	0.08	14.79	6,932.30	6932.36	8 - 18	Chinle/Alluvium Interface

TABLE 2A. FLUID LEVEL MEASUREMENTS FOR WELLS MKTF-1 THROUGH MKTF-50
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground-water Elevation (ft)	Corrected Water Table[1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
MKTF-09	11/18/19	4.00	22.75	ND	0.00	13.97	6,932.53	NA	7 - 19	Chinle/Alluvium Interface
MKTF-09	03/02/20	4.00	22.76	ND	0.00	14.23	6,932.27	NA	7 - 19	Chinle/Alluvium Interface
MKTF-09	06/25/20	4.00	22.77	ND	0.00	14.55	6,931.95	NA	7 - 19	Chinle/Alluvium Interface
MKTF-09	09/18/20	4.00	22.41	14.19	0.01	14.20	6,932.30	6932.31	7 - 19	Chinle/Alluvium Interface
MKTF-09	11/10/20	4.00	22.41	14.61	0.01	14.62	6,931.88	6931.89	7 - 19	Chinle/Alluvium Interface
MKTF-09	12/03/20	4.00	22.78	14.75	0.01	14.76	6,931.74	6931.75	7 - 19	Chinle/Alluvium Interface
MKTF-09	01/28/21	4.00	22.78	ND	0.00	15.11	6,931.39	NA	7 - 19	Chinle/Alluvium Interface
MKTF-09	02/28/21	4.00	22.70	14.76	0.13	14.89	6,931.61	6931.71	7 - 19	Chinle/Alluvium Interface
MKTF-09	03/31/21	4.00	22.70	14.85	0.02	14.87	6,931.63	6931.65	7 - 19	Chinle/Alluvium Interface
MKTF-09	04/26/21	4.00	22.70	14.79	0.05	14.84	6,931.66	6931.70	7 - 19	Chinle/Alluvium Interface
MKTF-09	05/20/21	4.00	22.70	14.98	0.18	15.16	6,931.34	6931.48	7 - 19	Chinle/Alluvium Interface
MKTF-09	06/01/21	4.00	22.70	14.92	0.03	14.95	6,931.55	6931.57	7 - 19	Chinle/Alluvium Interface

TABLE 2A. FLUID LEVEL MEASUREMENTS FOR WELLS MKTF-1 THROUGH MKTF-50
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground-water Elevation (ft)	Corrected Water Table[1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
MKTF-10	10/30/19	4.00	15.99	ND	0.00	7.28	6,929.88	NA	7 - 17	Chinle/Alluvium Interface
MKTF-10	03/02/20	4.00	15.99	ND	0.00	7.67	6,929.49	NA	7 - 17	Chinle/Alluvium Interface
MKTF-10	06/25/20	4.00	15.99	ND	0.00	7.07	6,930.09	NA	7 - 17	Chinle/Alluvium Interface
MKTF-10	09/18/20	4.00	16.41	7.52	0.01	7.53	6,929.63	6929.64	7 - 17	Chinle/Alluvium Interface
MKTF-10	11/10/20	4.00	16.41	ND	0.00	7.79	6,929.37	NA	7 - 17	Chinle/Alluvium Interface
MKTF-10	12/03/20	4.00	16.50	ND	0.00	7.80	6,929.36	NA	7 - 17	Chinle/Alluvium Interface
MKTF-10	01/28/21	4.00	16.50	ND	0.00	7.91	6,929.25	NA	7 - 17	Chinle/Alluvium Interface
MKTF-10	02/28/21	4.00	16.50	ND	0.00	7.89	6,929.27	NA	7 - 17	Chinle/Alluvium Interface
MKTF-10	03/31/21	4.00	16.50	ND	0.00	7.74	6,929.42	NA	7 - 17	Chinle/Alluvium Interface
MKTF-10	04/26/21	4.00	16.50	ND	0.00	8.03	6,929.13	NA	7 - 17	Chinle/Alluvium Interface
MKTF-10	05/20/21	4.00	16.50	ND	0.00	7.92	6,929.24	NA	7 - 17	Chinle/Alluvium Interface
MKTF-10	06/01/21	4.00	16.50	ND	0.00	7.69	6,929.47	NA	7 - 17	Chinle/Alluvium Interface

TABLE 2A. FLUID LEVEL MEASUREMENTS FOR WELLS MKTF-1 THROUGH MKTF-50
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground-water Elevation (ft)	Corrected Water Table[1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
MKTF-11	10/30/19	4.00	18.14	ND	0.00	7.06	6,924.28	NA	8 - 18	Chinle/Alluvium Interface
MKTF-11	03/02/20	4.00	18.14	ND	0.00	7.89	6,923.45	NA	8 - 18	Chinle/Alluvium Interface
MKTF-11	06/26/20	4.00	18.14	7.67	0.01	7.68	6,923.66	6923.67	8 - 18	Chinle/Alluvium Interface
MKTF-11	09/18/20	4.00	18.45	7.59	0.01	7.60	6,923.74	6923.75	8 - 18	Chinle/Alluvium Interface
MKTF-11	11/10/20	4.00	18.45	ND	0.00	7.61	6,923.73	NA	8 - 18	Chinle/Alluvium Interface
MKTF-11	12/03/20	4.00	18.45	7.89	0.02	7.91	6,923.43	6923.45	8 - 18	Chinle/Alluvium Interface
MKTF-11	01/28/21	4.00	18.45	ND	0.00	7.88	6,923.46	NA	8 - 18	Chinle/Alluvium Interface
MKTF-11	02/28/21	4.00	18.53	ND	0.00	7.84	6,923.50	NA	8 - 18	Chinle/Alluvium Interface
MKTF-11	03/31/21	4.00	18.53	ND	0.00	7.63	6,923.71	NA	8 - 18	Chinle/Alluvium Interface
MKTF-11	04/26/21	4.00	18.53	ND	0.00	7.70	6,923.64	NA	8 - 18	Chinle/Alluvium Interface
MKTF-11	05/20/21	4.00	18.53	ND	0.00	7.67	6,923.67	NA	8 - 18	Chinle/Alluvium Interface
MKTF-11	06/01/21	4.00	18.53	ND	0.00	7.56	6,923.78	NA	8 - 18	Chinle/Alluvium Interface

TABLE 2A. FLUID LEVEL MEASUREMENTS FOR WELLS MKTF-1 THROUGH MKTF-50
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground-water Elevation (ft)	Corrected Water Table[1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
MKTF-12	12/02/19	4.00	25.60	17.70	0.05	17.75	6,924.36	6924.40	12 - 22	Chinle/Alluvium Interface
MKTF-12	02/27/20	4.00	25.60	17.84	0.08	17.92	6,924.19	6924.25	12 - 22	Chinle/Alluvium Interface
MKTF-12	06/29/20	4.00	25.60	19.13	0.12	19.25	6,922.86	6922.96	12 - 22	Chinle/Alluvium Interface
MKTF-12	09/18/20	4.00	25.82	18.64	0.01	18.65	6,923.46	6923.47	12 - 22	Chinle/Alluvium Interface
MKTF-12	11/10/20	4.00	25.82	17.97	0.03	18.00	6,924.11	6924.13	12 - 22	Chinle/Alluvium Interface
MKTF-12	12/03/20	4.00	25.89	18.90	0.16	19.06	6,923.05	6923.18	12 - 22	Chinle/Alluvium Interface
MKTF-12	01/28/21	4.00	25.89	19.46	0.17	19.63	6,922.48	6922.62	12 - 22	Chinle/Alluvium Interface
MKTF-12	02/28/21	4.00	25.85	18.82	0.10	18.92	6,923.19	6923.27	12 - 22	Chinle/Alluvium Interface
MKTF-12	03/31/21	4.00	25.85	18.59	0.04	18.63	6,923.48	6923.51	12 - 22	Chinle/Alluvium Interface
MKTF-12	04/26/21	4.00	25.85	18.49	0.11	18.60	6,923.51	6923.60	12 - 22	Chinle/Alluvium Interface
MKTF-12	05/20/21	4.00	25.85	18.70	0.03	18.73	6,923.38	6923.40	12 - 22	Chinle/Alluvium Interface
MKTF-12	05/20/21	4.00	25.85	19.03	0.05	19.08	6,923.03	6923.07	12 - 22	Chinle/Alluvium Interface

TABLE 2A. FLUID LEVEL MEASUREMENTS FOR WELLS MKTF-1 THROUGH MKTF-50
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground-water Elevation (ft)	Corrected Water Table[1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
MKTF-13	12/02/19	4.00	21.25	ND	0.00	12.40	6,922.78	NA	8 - 18	Chinle/Alluvium Interface
MKTF-13	02/27/20	4.00	21.25	11.13	6.18	17.31	6,917.87	6922.81	8 - 18	Chinle/Alluvium Interface
MKTF-13	06/29/20	4.00	21.25	12.67	5.54	18.21	6,916.97	6921.40	8 - 18	Chinle/Alluvium Interface
MKTF-13	09/18/20	4.00	22.13	12.55	4.37	16.92	6,918.26	6921.76	8 - 18	Chinle/Alluvium Interface
MKTF-13	11/10/20	4.00	22.13	11.98	4.38	16.36	6,918.82	6922.32	8 - 18	Chinle/Alluvium Interface
MKTF-13	12/03/20	4.00	21.92	12.84	3.81	16.65	6,918.53	6921.58	8 - 18	Chinle/Alluvium Interface
MKTF-13	01/28/21	4.00	21.92	13.25	4.01	17.26	6,917.92	6921.13	8 - 18	Chinle/Alluvium Interface
MKTF-13	02/28/21	4.00	21.75	12.60	4.30	16.90	6,918.28	6921.72	8 - 18	Chinle/Alluvium Interface
MKTF-13	03/31/21	4.00	21.75	12.21	4.44	16.65	6,918.53	6922.08	8 - 18	Chinle/Alluvium Interface
MKTF-13	04/26/21	4.00	21.75	12.25	4.08	16.33	6,918.85	6922.11	8 - 18	Chinle/Alluvium Interface
MKTF-13	05/20/21	4.00	21.75	12.11	4.59	16.70	6,918.48	6922.15	8 - 18	Chinle/Alluvium Interface
MKTF-13	06/01/21	4.00	21.75	11.93	3.74	15.67	6,919.51	6922.50	8 - 18	Chinle/Alluvium Interface

TABLE 2A. FLUID LEVEL MEASUREMENTS FOR WELLS MKTF-1 THROUGH MKTF-50
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground-water Elevation (ft)	Corrected Water Table[1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
MKTF-14	10/28/19	4.00	17.46	6.02	0.37	6.39	6,921.63	6,921.93	4 - 14	Chinle/Alluvium Interface
MKTF-14	02/27/20	4.00	17.46	5.35	0.30	5.65	6,922.37	6922.61	4 - 14	Chinle/Alluvium Interface
MKTF-14	06/29/20	4.00	17.46	6.38	2.20	8.58	6,919.44	6921.20	4 - 14	Chinle/Alluvium Interface
MKTF-14	09/18/20	4.00	17.32	6.18	1.98	8.16	6,919.86	6921.44	4 - 14	Chinle/Alluvium Interface
MKTF-14	11/10/20	4.00	17.32	5.98	0.30	6.28	6,921.74	6921.98	4 - 14	Chinle/Alluvium Interface
MKTF-14	12/03/20	4.00	17.55	6.79	0.27	7.06	6,920.96	6921.18	4 - 14	Chinle/Alluvium Interface
MKTF-14	01/28/21	4.00	17.55	7.11	0.30	7.41	6,920.61	6920.85	4 - 14	Chinle/Alluvium Interface
MKTF-14	02/28/21	4.00	17.55	6.64	0.34	6.98	6,921.04	6921.31	4 - 14	Chinle/Alluvium Interface
MKTF-14	03/31/21	4.00	17.55	6.14	0.12	6.26	6,921.76	6921.86	4 - 14	Chinle/Alluvium Interface
MKTF-14	04/26/21	4.00	17.55	6.11	0.07	6.18	6,921.84	6921.90	4 - 14	Chinle/Alluvium Interface
MKTF-14	05/20/21	4.00	17.55	6.20	0.11	6.31	6,921.71	6921.80	4 - 14	Chinle/Alluvium Interface
MKTF-14	06/01/21	4.00	17.55	5.81	0.16	5.97	6,922.05	6922.18	4 - 14	Chinle/Alluvium Interface

TABLE 2A. FLUID LEVEL MEASUREMENTS FOR WELLS MKTF-1 THROUGH MKTF-50
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground-water Elevation (ft)	Corrected Water Table[1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
MKTF-15	10/30/19	2.00	19.48	12.65	0.05	12.70	6,930.78	6,930.82	9 - 19	Chinle/Alluvium Interface
MKTF-15	02/03/20	2.00	19.48	13.02	0.09	13.11	6,930.37	6,930.44	9 - 19	Chinle/Alluvium Interface
MKTF-15	06/26/20	2.00	19.48	13.11	0.06	13.17	6,930.31	6,930.36	9 - 19	Chinle/Alluvium Interface
MKTF-15	09/18/20	2.00	19.18	13.00	0.03	13.03	6,930.45	6,930.47	9 - 19	Chinle/Alluvium Interface
MKTF-15	11/10/20	2.00	19.18	13.25	0.25	13.50	6,929.98	6,930.18	9 - 19	Chinle/Alluvium Interface
MKTF-15	12/03/20	2.00	19.52	13.39	0.21	13.60	6,929.88	6,930.05	9 - 19	Chinle/Alluvium Interface
MKTF-15	01/28/21	2.00	19.52	13.54	0.21	13.75	6,929.73	6,929.90	9 - 19	Chinle/Alluvium Interface
MKTF-15	02/28/21	2.00	19.53	13.45	0.07	13.52	6,929.96	6,930.02	9 - 19	Chinle/Alluvium Interface
MKTF-15	03/31/21	2.00	19.53	13.39	0.03	13.42	6,930.06	6,930.08	9 - 19	Chinle/Alluvium Interface
MKTF-15	04/26/21	2.00	19.53	13.11	0.21	13.32	6,930.16	6,930.33	9 - 19	Chinle/Alluvium Interface
MKTF-15	05/20/21	2.00	19.53	13.51	0.07	13.58	6,929.90	6,929.96	9 - 19	Chinle/Alluvium Interface
MKTF-15	06/01/21	2.00	19.53	13.43	0.04	13.47	6,930.01	6,930.04	9 - 19	Chinle/Alluvium Interface

TABLE 2A. FLUID LEVEL MEASUREMENTS FOR WELLS MKTF-1 THROUGH MKTF-50
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground-water Elevation (ft)	Corrected Water Table[1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
MKTF-16	10/30/19	2.00	14.10	ND	0.00	9.89	6,940.69	NA	4 - 14	Chinle/Alluvium Interface
MKTF-16	02/05/20	2.00	14.10	ND	0.00	9.68	6,940.90	NA	4 - 14	Chinle/Alluvium Interface
MKTF-16	06/26/20	2.00	14.10	ND	0.00	9.54	6,941.04	NA	4 - 14	Chinle/Alluvium Interface
MKTF-16	09/18/20	2.00	10.92	9.18	0.01	9.19	6,941.39	6,941.40	4 - 14	Chinle/Alluvium Interface
MKTF-16	11/10/20	2.00	10.92	ND	0.00	7.20	6,943.38	NA	4 - 14	Chinle/Alluvium Interface
MKTF-16	12/08/20	2.00	10.95	ND	0.00	9.70	6,940.88	NA	4 - 14	Chinle/Alluvium Interface
MKTF-16	01/28/21	2.00	10.95	ND	0.00	6.15	6,944.43	NA	4 - 14	Chinle/Alluvium Interface
MKTF-16	02/28/21	2.00	10.95	ND	0.00	8.84	6,941.74	NA	4 - 14	Chinle/Alluvium Interface
MKTF-16	03/31/21	2.00	10.95	ND	0.00	9.31	6,941.27	NA	4 - 14	Chinle/Alluvium Interface
MKTF-16	04/26/21	2.00	10.95	ND	0.00	9.51	6,941.07	NA	4 - 14	Chinle/Alluvium Interface
MKTF-16	05/20/21	2.00	10.95	ND	0.00	9.40	6,941.18	NA	4 - 14	Chinle/Alluvium Interface
MKTF-16	06/01/21	2.00	10.95	ND	0.00	9.28	6,941.30	NA	4 - 14	Chinle/Alluvium Interface
MKTF-16	06/23/21	2.00	10.95	ND	0.00	DRY	NA	NA	4 - 14	Chinle/Alluvium Interface

TABLE 2A. FLUID LEVEL MEASUREMENTS FOR WELLS MKTF-1 THROUGH MKTF-50
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground-water Elevation (ft)	Corrected Water Table[1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
MKTF-17	12/02/19	2.00	24.65	13.17	4.88	18.05	6,927.71	6,931.61	14 - 24	Chinle/Alluvium Interface
MKTF-17	02/03/20	2.00	24.11	11.44	5.41	16.85	6,928.91	6,933.24	14 - 24	Chinle/Alluvium Interface
MKTF-17	06/29/20	2.00	24.11	10.19	5.31	15.50	6,930.26	6,934.51	14 - 24	Chinle/Alluvium Interface
MKTF-17	09/14/20	2.00	24.67	10.00	5.37	15.37	6,930.39	6,934.69	14 - 24	Chinle/Alluvium Interface
MKTF-17	11/10/20	2.00	24.67	11.39	0.20	11.59	6,934.17	6,934.33	14 - 24	Chinle/Alluvium Interface
MKTF-17	12/04/20	2.00	24.66	11.28	0.19	11.47	6,934.29	6,934.44	14 - 24	Chinle/Alluvium Interface
MKTF-17	01/28/21	2.00	24.65	11.88	0.02	11.90	6,933.86	6,933.88	14 - 24	Chinle/Alluvium Interface
MKTF-17	02/28/21	2.00	24.70	11.88	0.02	11.90	6,933.86	6,933.88	14 - 24	Chinle/Alluvium Interface
MKTF-17	03/31/21	2.00	24.70	12.06	0.03	12.09	6,933.67	6,933.69	14 - 24	Chinle/Alluvium Interface
MKTF-17	04/26/21	2.00	24.70	14.97	0.02	14.99	6,930.77	6,930.79	14 - 24	Chinle/Alluvium Interface
MKTF-17	05/20/21	2.00	24.70	15.03	0.03	15.06	6,930.70	6,930.72	14 - 24	Chinle/Alluvium Interface
MKTF-17	06/01/21	2.00	24.70	15.10	0.05	15.15	6,930.61	6,930.65	14 - 24	Chinle/Alluvium Interface

TABLE 2A. FLUID LEVEL MEASUREMENTS FOR WELLS MKTF-1 THROUGH MKTF-50
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground-water Elevation (ft)	Corrected Water Table[1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
MKTF-18	11/12/19	2.00	25.38	ND	0.00	8.19	6,942.46	NA	17 - 27	Chinle/Alluvium Interface
MKTF-18	02/05/20	2.00	25.38	ND	0.00	9.10	6,941.55	NA	17 - 27	Chinle/Alluvium Interface
MKTF-18	06/30/20	2.00	25.38	ND	0.00	8.98	6,941.67	NA	17 - 27	Chinle/Alluvium Interface
MKTF-18	09/18/20	2.00	21.73	8.49	0.01	8.50	6,942.15	6,942.16	17 - 27	Chinle/Alluvium Interface
MKTF-18	11/10/20	2.00	21.73	ND	0.00	8.74	6,941.91	NA	17 - 27	Chinle/Alluvium Interface
MKTF-18	12/04/20	2.00	25.50	ND	0.00	8.80	6,941.85	NA	17 - 27	Chinle/Alluvium Interface
MKTF-18	01/28/21	2.00	25.50	ND	0.00	9.28	6,941.37	NA	17 - 27	Chinle/Alluvium Interface
MKTF-18	02/28/21	2.00	27.55	ND	0.00	9.08	6,941.57	NA	17 - 27	Chinle/Alluvium Interface
MKTF-18	03/31/21	2.00	27.55	ND	0.00	9.30	6,941.35	NA	17 - 27	Chinle/Alluvium Interface
MKTF-18	04/26/21	2.00	27.55	ND	0.00	9.23	6,941.42	NA	17 - 27	Chinle/Alluvium Interface
MKTF-18	05/20/21	2.00	27.55	ND	0.00	9.25	6,941.40	NA	17 - 27	Chinle/Alluvium Interface
MKTF-18	06/01/21	2.00	27.55	ND	0.00	9.21	6,941.44	NA	17 - 27	Chinle/Alluvium Interface

TABLE 2A. FLUID LEVEL MEASUREMENTS FOR WELLS MKTF-1 THROUGH MKTF-50
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground-water Elevation (ft)	Corrected Water Table[1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
MKTF-19	12/02/19	2.00	18.20	11.63	0.87	12.50	6,932.17	6,932.87	10 - 20	Chinle/Alluvium Interface
MKTF-19	02/03/20	2.00	17.47	11.35	1.05	12.40	6,932.27	6,933.11	10 - 20	Chinle/Alluvium Interface
MKTF-19	06/29/20	2.00	17.47	12.08	1.21	13.29	6,931.38	6,932.35	10 - 20	Chinle/Alluvium Interface
MKTF-19	09/14/20	2.00	19.24	11.95	0.02	11.97	6,932.70	6,932.72	10 - 20	Chinle/Alluvium Interface
MKTF-19	11/10/20	2.00	19.24	12.22	1.33	13.55	6,931.12	6,932.18	10 - 20	Chinle/Alluvium Interface
MKTF-19	12/04/20	2.00	19.38	12.18	1.24	13.42	6,931.25	6,932.24	10 - 20	Chinle/Alluvium Interface
MKTF-19	01/28/21	2.00	19.38	12.22	1.24	13.46	6,931.21	6,932.20	10 - 20	Chinle/Alluvium Interface
MKTF-19	02/28/21	2.00	19.44	12.45	1.14	13.59	6,931.08	6,931.99	10 - 20	Chinle/Alluvium Interface
MKTF-19	03/31/21	2.00	19.44	12.60	1.23	13.83	6,930.84	6,931.82	10 - 20	Chinle/Alluvium Interface
MKTF-19	04/26/21	2.00	19.44	12.54	1.53	14.07	6,930.60	6,931.82	10 - 20	Chinle/Alluvium Interface
MKTF-19	05/20/21	2.00	19.44	12.28	1.42	13.70	6,930.97	6,932.11	10 - 20	Chinle/Alluvium Interface
MKTF-19	06/01/21	2.00	19.44	12.55	1.22	13.77	6,930.90	6,931.88	10 - 20	Chinle/Alluvium Interface

TABLE 2A. FLUID LEVEL MEASUREMENTS FOR WELLS MKTF-1 THROUGH MKTF-50
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground-water Elevation (ft)	Corrected Water Table[1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
MKTF-20	11/04/19	4.00	8.83	ND	0.00	7.68	6,944.10	NA	2 - 10	Chinle/Alluvium Interface
MKTF-20	02/05/20	4.00	8.83	ND	0.00	9.02	6,942.76	NA	2 - 10	Chinle/Alluvium Interface
MKTF-20	06/26/20	4.00	8.83	ND	0.00	8.67	6,943.11	NA	2 - 10	Chinle/Alluvium Interface
MKTF-20	09/15/20	4.00	9.62	8.54	0.81	9.35	6,942.43	6,943.08	2 - 10	Chinle/Alluvium Interface
MKTF-20	11/10/20	4.00	9.62	8.10	0.80	8.90	6,942.88	6,943.52	2 - 10	Chinle/Alluvium Interface
MKTF-20	12/08/20	4.00	9.60	8.76	0.19	8.95	6,942.83	6,942.98	2 - 10	Chinle/Alluvium Interface
MKTF-20	01/28/21	4.00	9.60	8.99	0.61	9.60	6,942.18	6,942.67	2 - 10	Chinle/Alluvium Interface
MKTF-20	02/28/21	4.00	9.61	ND	0.00	DRY	NA	NA	2 - 10	Chinle/Alluvium Interface
MKTF-20	03/31/21	4.00	9.61	8.95	0.28	9.23	6,942.55	6,942.77	2 - 10	Chinle/Alluvium Interface
MKTF-20	04/26/21	4.00	9.61	9.14	0.29	9.43	6,942.35	6,942.58	2 - 10	Chinle/Alluvium Interface
MKTF-20	05/20/21	4.00	9.61	8.90	0.27	9.17	6,942.61	6,942.83	2 - 10	Chinle/Alluvium Interface
MKTF-20	06/01/21	4.00	9.61	9.01	0.29	9.30	6,942.48	6,942.71	2 - 10	Chinle/Alluvium Interface

TABLE 2A. FLUID LEVEL MEASUREMENTS FOR WELLS MKTF-1 THROUGH MKTF-50
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground-water Elevation (ft)	Corrected Water Table[1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
MKTF-21	10/30/19	4.00	8.81	ND	0.00	8.32	6,944.25	NA	2 - 10	Chinle/Alluvium Interface
MKTF-21	02/05/20	4.00	8.83	ND	0.00	8.25	6,944.32	NA	2 - 10	Chinle/Alluvium Interface
MKTF-21	06/26/20	4.00	8.83	8.17	0.03	8.20	6,944.37	6944.39	2 - 10	Chinle/Alluvium Interface
MKTF-21	09/15/20	4.00	8.84	7.08	0.01	7.09	6,945.48	6945.49	2 - 10	Chinle/Alluvium Interface
MKTF-21	11/10/20	4.00	8.84	ND	0.00	6.41	6,946.16	NA	2 - 10	Chinle/Alluvium Interface
MKTF-21	12/04/20	4.00	8.80	8.04	0.01	8.05	6,944.52	6944.53	2 - 10	Chinle/Alluvium Interface
MKTF-21	01/28/21	4.00	8.80	ND	0.00	7.34	6,945.23	NA	2 - 10	Chinle/Alluvium Interface
MKTF-21	02/28/21	4.00	8.87	ND	0.00	7.81	6,944.76	NA	2 - 10	Chinle/Alluvium Interface
MKTF-21	03/31/21	4.00	8.87	ND	0.00	7.73	6,944.84	NA	2 - 10	Chinle/Alluvium Interface
MKTF-21	04/26/21	4.00	8.87	ND	0.00	7.28	6,945.29	NA	2 - 10	Chinle/Alluvium Interface
MKTF-21	05/20/21	4.00	8.87	ND	0.00	7.40	6,945.17	NA	2 - 10	Chinle/Alluvium Interface
MKTF-21	06/01/21	4.00	8.87	ND	0.00	6.98	6,945.59	NA	2 - 10	Chinle/Alluvium Interface

TABLE 2A. FLUID LEVEL MEASUREMENTS FOR WELLS MKTF-1 THROUGH MKTF-50
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground-water Elevation (ft)	Corrected Water Table[1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
MKTF-22	10/24/19	2.00	35.60	ND	0.00	25.40	6,916.91	NA	22 - 32	Chinle/Alluvium Interface
MKTF-22	02/27/20	2.00	35.25	24.48	1.05	25.53	6,916.78	6917.62	22 - 32	Chinle/Alluvium Interface
MKTF-22	06/29/20	2.00	35.25	24.57	3.14	27.71	6,914.60	6917.11	22 - 32	Chinle/Alluvium Interface
MKTF-22	09/14/20	2.00	35.09	24.98	2.70	27.68	6,914.63	6916.79	22 - 32	Chinle/Alluvium Interface
MKTF-22	11/10/20	2.00	35.09	24.94	2.35	27.29	6,915.02	6916.90	22 - 32	Chinle/Alluvium Interface
MKTF-22	12/04/20	2.00	35.09	25.10	2.45	27.55	6,914.76	6916.72	22 - 32	Chinle/Alluvium Interface
MKTF-22	01/28/21	2.00	35.09	25.28	2.69	27.97	6,914.34	6916.49	22 - 32	Chinle/Alluvium Interface
MKTF-22	02/28/21	2.00	35.66	25.17	2.68	27.85	6,914.46	6916.60	22 - 32	Chinle/Alluvium Interface
MKTF-22	03/31/21	2.00	35.66	25.77	1.48	27.25	6,915.06	6916.24	22 - 32	Chinle/Alluvium Interface
MKTF-22	04/26/21	2.00	35.66	26.01	0.22	26.23	6,916.08	6916.26	22 - 32	Chinle/Alluvium Interface
MKTF-22	05/20/21	2.00	35.66	25.15	1.83	26.98	6,915.33	6916.79	22 - 32	Chinle/Alluvium Interface
MKTF-22	06/01/21	2.00	35.66	26.10	2.10	28.20	6,914.11	6915.79	22 - 32	Chinle/Alluvium Interface

TABLE 2A. FLUID LEVEL MEASUREMENTS FOR WELLS MKTF-1 THROUGH MKTF-50
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground-water Elevation (ft)	Corrected Water Table[1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
MKTF-23	10/28/19	2.00	20.36	ND	0.00	13.95	6,916.03	NA	7 - 17	Chinle/Alluvium Interface
MKTF-23	02/27/20	2.00	20.36	ND	0.00	13.42	6,916.56	NA	7 - 17	Chinle/Alluvium Interface
MKTF-23	06/29/20	2.00	20.36	ND	0.00	13.25	6,916.73	NA	7 - 17	Chinle/Alluvium Interface
MKTF-23	09/19/20	2.00	20.02	15.42	0.02	15.44	6,914.54	6,914.56	7 - 17	Chinle/Alluvium Interface
MKTF-23	11/10/20	2.00	20.02	ND	0.00	14.23	6,915.75	NA	7 - 17	Chinle/Alluvium Interface
MKTF-23	12/04/20	2.00	20.39	14.15	0.01	14.16	6,915.82	6,915.83	7 - 17	Chinle/Alluvium Interface
MKTF-23	12/28/20	2.00	20.76	ND	0.00	14.09	6,915.89	NA	7 - 17	Chinle/Alluvium Interface
MKTF-23	01/28/21	2.00	20.76	14.22	0.01	14.23	6,915.75	6,915.76	7 - 17	Chinle/Alluvium Interface
MKTF-23	02/28/21	2.00	20.41	14.38	0.01	14.39	6,915.59	6,915.60	7 - 17	Chinle/Alluvium Interface
MKTF-23	03/31/21	2.00	20.41	ND	0.00	14.21	6,915.77	NA	7 - 17	Chinle/Alluvium Interface
MKTF-23	04/26/21	2.00	20.41	ND	0.00	13.90	6,916.08	NA	7 - 17	Chinle/Alluvium Interface
MKTF-23	05/20/21	2.00	20.41	ND	0.00	14.19	6,915.79	NA	7 - 17	Chinle/Alluvium Interface
MKTF-23	06/01/21	2.00	20.41	ND	0.00	13.98	6,916.00	NA	7 - 17	Chinle/Alluvium Interface

TABLE 2A. FLUID LEVEL MEASUREMENTS FOR WELLS MKTF-1 THROUGH MKTF-50
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground-water Elevation (ft)	Corrected Water Table[1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
MKTF-24	10/22/19	2.00	30.82	ND	0.00	23.21	6,905.51	NA	18 - 28	Chinle/Alluvium Interface
MKTF-24	02/24/20	2.00	30.47	ND	0.00	22.17	6,906.55	NA	18 - 28	Chinle/Alluvium Interface
MKTF-24	06/26/20	2.00	30.47	ND	0.00	22.80	6,905.92	NA	18 - 28	Chinle/Alluvium Interface
MKTF-24	09/15/20	2.00	31.13	ND	0.00	23.35	6,905.37	NA	18 - 28	Chinle/Alluvium Interface
MKTF-24	11/10/20	2.00	31.13	ND	0.00	23.32	6,905.40	NA	18 - 28	Chinle/Alluvium Interface
MKTF-24	12/04/20	2.00	31.18	ND	0.00	23.22	6,905.50	NA	18 - 28	Chinle/Alluvium Interface
MKTF-24	01/28/21	2.00	31.23	ND	0.00	23.26	6,905.46	NA	18 - 28	Chinle/Alluvium Interface
MKTF-24	02/27/21	2.00	31.47	ND	0.00	22.97	6,905.75	NA	18 - 28	Chinle/Alluvium Interface
MKTF-24	03/31/21	2.00	31.47	ND	0.00	23.16	6,905.56	NA	18 - 28	Chinle/Alluvium Interface
MKTF-24	04/26/21	2.00	31.47	ND	0.00	24.16	6,904.56	NA	18 - 28	Chinle/Alluvium Interface
MKTF-24	05/20/21	2.00	31.47	ND	0.00	23.21	6,905.51	NA	18 - 28	Chinle/Alluvium Interface
MKTF-24	06/01/21	2.00	31.47	ND	0.00	23.40	6,905.32	NA	18 - 28	Chinle/Alluvium Interface

TABLE 2A. FLUID LEVEL MEASUREMENTS FOR WELLS MKTF-1 THROUGH MKTF-50
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground-water Elevation (ft)	Corrected Water Table[1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
MKTF-25	10/22/19	2.00	19.80	ND	0.00	13.72	6,902.47	NA	6 - 16	Chinle/Alluvium Interface
MKTF-25	02/26/20	2.00	19.43	ND	0.00	12.94	6,903.25	NA	6 - 16	Chinle/Alluvium Interface
MKTF-25	06/26/20	2.00	19.43	ND	0.00	13.33	6,902.86	NA	6 - 16	Chinle/Alluvium Interface
MKTF-25	09/15/20	2.00	20.09	ND	0.00	13.90	6,902.29	NA	6 - 16	Chinle/Alluvium Interface
MKTF-25	11/10/20	2.00	20.09	ND	0.00	13.75	6,902.44	NA	6 - 16	Chinle/Alluvium Interface
MKTF-25	12/04/20	2.00	20.38	ND	0.00	13.62	6,902.57	NA	6 - 16	Chinle/Alluvium Interface
MKTF-25	01/28/21	2.00	20.38	ND	0.00	13.54	6,902.65	NA	6 - 16	Chinle/Alluvium Interface
MKTF-25	02/27/21	2.00	20.09	ND	0.00	13.46	6,902.73	NA	6 - 16	Chinle/Alluvium Interface
MKTF-25	03/31/21	2.00	20.09	ND	0.00	13.41	6,902.78	NA	6 - 16	Chinle/Alluvium Interface
MKTF-25	04/26/21	2.00	20.09	ND	0.00	14.14	6,902.05	NA	6 - 16	Chinle/Alluvium Interface
MKTF-25	05/20/21	2.00	20.09	ND	0.00	13.32	6,902.87	NA	6 - 16	Chinle/Alluvium Interface
MKTF-25	06/01/21	2.00	20.09	ND	0.00	13.56	6,902.63	NA	6 - 16	Chinle/Alluvium Interface

TABLE 2A. FLUID LEVEL MEASUREMENTS FOR WELLS MKTF-1 THROUGH MKTF-50
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground-water Elevation (ft)	Corrected Water Table[1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
MKTF-26	10/22/19	2.00	17.15	8.63	0.73	9.36	6,905.95	6,906.53	4 - 14	Chinle/Alluvium Interface
MKTF-26	02/26/20	2.00	17.15	8.35	0.76	9.11	6,906.20	6906.81	4 - 14	Chinle/Alluvium Interface
MKTF-26	06/26/20	2.00	17.15	8.61	0.89	9.50	6,905.81	6906.52	4 - 14	Chinle/Alluvium Interface
MKTF-26	09/15/20	2.00	16.85	8.81	0.75	9.56	6,905.75	6906.35	4 - 14	Chinle/Alluvium Interface
MKTF-26	11/10/20	2.00	16.85	8.65	0.71	9.36	6,905.95	6906.52	4 - 14	Chinle/Alluvium Interface
MKTF-26	12/04/20	2.00	17.16	7.67	1.72	9.39	6,905.92	6907.30	4 - 14	Chinle/Alluvium Interface
MKTF-26	01/28/21	2.00	17.16	8.93	0.27	9.20	6,906.11	6906.33	4 - 14	Chinle/Alluvium Interface
MKTF-26	02/27/21	2.00	16.90	8.88	0.17	9.05	6,906.26	6906.40	4 - 14	Chinle/Alluvium Interface
MKTF-26	03/31/21	2.00	16.90	9.00	0.11	9.11	6,906.20	6906.29	4 - 14	Chinle/Alluvium Interface
MKTF-26	04/26/21	2.00	16.90	8.81	0.11	8.92	6,906.39	6906.48	4 - 14	Chinle/Alluvium Interface
MKTF-26	05/20/21	2.00	16.90	9.02	0.12	9.14	6,906.17	6906.27	4 - 14	Chinle/Alluvium Interface
MKTF-26	06/01/21	2.00	16.90	9.10	0.09	9.19	6,906.12	6906.19	4 - 14	Chinle/Alluvium Interface

TABLE 2A. FLUID LEVEL MEASUREMENTS FOR WELLS MKTF-1 THROUGH MKTF-50
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground-water Elevation (ft)	Corrected Water Table[1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
MKTF-27	10/30/19	2.00	14.72	ND	0.00	6.14	6,911.76	NA	1 - 12	Chinle/Alluvium Interface
MKTF-27	02/24/20	2.00	14.72	ND	0.00	3.61	6,914.29	NA	1 - 12	Chinle/Alluvium Interface
MKTF-27	06/30/20	2.00	14.72	ND	0.00	6.70	6,911.20	NA	1 - 12	Chinle/Alluvium Interface
MKTF-27	09/15/20	2.00	14.72	ND	0.00	6.21	6,911.69	NA	1 - 12	Chinle/Alluvium Interface
MKTF-27	11/10/20	2.00	14.72	ND	0.00	6.72	6,911.18	NA	1 - 12	Chinle/Alluvium Interface
MKTF-27	12/04/20	2.00	14.74	ND	0.00	6.47	6,911.43	NA	1 - 12	Chinle/Alluvium Interface
MKTF-27	01/28/21	2.00	14.74	ND	0.00	6.62	6,911.28	NA	1 - 12	Chinle/Alluvium Interface
MKTF-27	02/28/21	2.00	14.76	ND	0.00	5.51	6,912.39	NA	1 - 12	Chinle/Alluvium Interface
MKTF-27	03/31/21	2.00	14.76	ND	0.00	6.48	6,911.42	NA	1 - 12	Chinle/Alluvium Interface
MKTF-27	04/26/21	2.00	14.76	ND	0.00	6.18	6,911.72	NA	1 - 12	Chinle/Alluvium Interface
MKTF-27	05/20/21	2.00	14.76	ND	0.00	6.52	6,911.38	NA	1 - 12	Chinle/Alluvium Interface
MKTF-27	06/01/21	2.00	14.76	ND	0.00	6.69	6,911.21	NA	1 - 12	Chinle/Alluvium Interface

TABLE 2A. FLUID LEVEL MEASUREMENTS FOR WELLS MKTF-1 THROUGH MKTF-50
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground-water Elevation (ft)	Corrected Water Table[1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
MKTF-28	10/22/19	2.00	16.13	ND	0.00	6.38	6,915.14	NA	3 - 13	Chinle/Alluvium Interface
MKTF-28	02/24/20	2.00	16.16	ND	0.00	4.53	6,916.99	NA	3 - 13	Chinle/Alluvium Interface
MKTF-28	06/30/20	2.00	16.16	ND	0.00	4.84	6,916.68	NA	3 - 13	Chinle/Alluvium Interface
MKTF-28	09/15/20	2.00	16.17	ND	0.00	4.59	6,916.93	NA	3 - 13	Chinle/Alluvium Interface
MKTF-28	11/10/20	2.00	16.17	ND	0.00	8.81	6,912.71	NA	3 - 13	Chinle/Alluvium Interface
MKTF-28	12/04/20	2.00	16.16	ND	0.00	7.13	6,914.39	NA	3 - 13	Chinle/Alluvium Interface
MKTF-28	01/28/21	2.00	16.16	ND	0.00	9.74	6,911.78	NA	3 - 13	Chinle/Alluvium Interface
MKTF-28	02/28/21	2.00	16.16	ND	0.00	8.18	6,913.34	NA	3 - 13	Chinle/Alluvium Interface
MKTF-28	03/31/21	2.00	16.16	ND	0.00	8.51	6,913.01	NA	3 - 13	Chinle/Alluvium Interface
MKTF-28	04/26/21	2.00	16.16	ND	0.00	8.47	6,913.05	NA	3 - 13	Chinle/Alluvium Interface
MKTF-28	05/20/21	2.00	16.16	ND	0.00	7.94	6,913.58	NA	3 - 13	Chinle/Alluvium Interface
MKTF-28	06/01/21	2.00	16.16	ND	0.00	7.87	6,913.65	NA	3 - 13	Chinle/Alluvium Interface

TABLE 2A. FLUID LEVEL MEASUREMENTS FOR WELLS MKTF-1 THROUGH MKTF-50
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground-water Elevation (ft)	Corrected Water Table[1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
MKTF-29	10/22/19	2.00	22.80	ND	0.00	6.32	6,895.30	NA	10 - 20	Chinle/Alluvium Interface
MKTF-29	02/24/20	2.00	22.84	ND	0.00	4.49	6,897.13	NA	10 - 20	Chinle/Alluvium Interface
MKTF-29	06/26/20	2.00	22.84	ND	0.00	6.42	6,895.20	NA	10 - 20	Chinle/Alluvium Interface
MKTF-29	09/15/20	2.00	22.78	ND	0.00	8.01	6,893.61	NA	10 - 20	Chinle/Alluvium Interface
MKTF-29	11/10/20	2.00	22.78	ND	0.00	6.98	6,894.64	NA	10 - 20	Chinle/Alluvium Interface
MKTF-29	12/04/20	2.00	22.85	ND	0.00	6.40	6,895.22	NA	10 - 20	Chinle/Alluvium Interface
MKTF-29	01/28/21	2.00	22.85	ND	0.00	5.61	6,896.01	NA	10 - 20	Chinle/Alluvium Interface
MKTF-29	02/28/21	2.00	22.83	ND	0.00	5.31	6,896.31	NA	10 - 20	Chinle/Alluvium Interface
MKTF-29	03/31/21	2.00	22.83	ND	0.00	5.20	6,896.42	NA	10 - 20	Chinle/Alluvium Interface
MKTF-29	04/26/21	2.00	22.83	ND	0.00	4.92	6,896.70	NA	10 - 20	Chinle/Alluvium Interface
MKTF-29	05/20/21	2.00	22.83	ND	0.00	5.21	6,896.41	NA	10 - 20	Chinle/Alluvium Interface
MKTF-29	06/01/21	2.00	22.83	ND	0.00	4.12	6,897.50	NA	10 - 20	Chinle/Alluvium Interface

TABLE 2A. FLUID LEVEL MEASUREMENTS FOR WELLS MKTF-1 THROUGH MKTF-50
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground-water Elevation (ft)	Corrected Water Table[1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
MKTF-30	10/22/19	2.00	23.19	ND	0.00	15.82	6,884.98	NA	10 - 20	Chinle/Alluvium Interface
MKTF-30	02/26/20	2.00	23.20	ND	0.00	15.31	6,885.49	NA	10 - 20	Chinle/Alluvium Interface
MKTF-30	06/26/20	2.00	23.20	ND	0.00	16.19	6,884.61	NA	10 - 20	Chinle/Alluvium Interface
MKTF-30	09/15/20	2.00	23.22	ND	0.00	16.66	6,884.14	NA	10 - 20	Chinle/Alluvium Interface
MKTF-30	11/10/20	2.00	23.22	ND	0.00	16.87	6,883.93	NA	10 - 20	Chinle/Alluvium Interface
MKTF-30	12/04/20	2.00	23.22	ND	0.00	16.76	6,884.04	NA	10 - 20	Chinle/Alluvium Interface
MKTF-30	01/28/21	2.00	23.22	ND	0.00	16.79	6,884.01	NA	10 - 20	Chinle/Alluvium Interface
MKTF-30	02/28/21	2.00	22.95	ND	0.00	16.33	6,884.47	NA	10 - 20	Chinle/Alluvium Interface
MKTF-30	03/31/21	2.00	22.95	ND	0.00	16.40	6,884.40	NA	10 - 20	Chinle/Alluvium Interface
MKTF-30	04/26/21	2.00	22.95	ND	0.00	16.20	6,884.60	NA	10 - 20	Chinle/Alluvium Interface
MKTF-30	05/20/21	2.00	22.95	ND	0.00	16.39	6,884.41	NA	10 - 20	Chinle/Alluvium Interface
MKTF-30	06/01/21	2.00	22.95	ND	0.00	16.32	6,884.48	NA	10 - 20	Chinle/Alluvium Interface

TABLE 2A. FLUID LEVEL MEASUREMENTS FOR WELLS MKTF-1 THROUGH MKTF-50
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground-water Elevation (ft)	Corrected Water Table[1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
MKTF-31	10/22/19	2.00	19.30	ND	0.00	8.64	6,898.23	NA	6 - 21	Chinle/Alluvium Interface
MKTF-31	02/24/20	2.00	22.81	ND	0.00	8.10	6,898.77	NA	6 - 21	Chinle/Alluvium Interface
MKTF-31	06/26/20	2.00	22.81	ND	0.00	8.25	6,898.62	NA	6 - 21	Chinle/Alluvium Interface
MKTF-31	09/15/20	2.00	19.34	ND	0.00	8.75	6,898.12	NA	6 - 21	Chinle/Alluvium Interface
MKTF-31	11/10/20	2.00	19.34	ND	0.00	8.79	6,898.08	NA	6 - 21	Chinle/Alluvium Interface
MKTF-31	12/04/20	2.00	19.37	ND	0.00	8.73	6,898.14	NA	6 - 21	Chinle/Alluvium Interface
MKTF-31	01/28/21	2.00	13.37	ND	0.00	8.62	6,898.25	NA	6 - 21	Chinle/Alluvium Interface
MKTF-31	02/28/21	2.00	19.36	ND	0.00	8.53	6,898.34	NA	6 - 21	Chinle/Alluvium Interface
MKTF-31	03/31/21	2.00	19.36	ND	0.00	8.61	6,898.26	NA	6 - 21	Chinle/Alluvium Interface
MKTF-31	04/26/21	2.00	19.36	ND	0.00	8.40	6,898.47	NA	6 - 21	Chinle/Alluvium Interface
MKTF-31	05/20/21	2.00	19.36	ND	0.00	8.51	6,898.36	NA	6 - 21	Chinle/Alluvium Interface
MKTF-31	06/01/21	2.00	19.36	ND	0.00	8.43	6,898.44	NA	6 - 21	Chinle/Alluvium Interface

TABLE 2A. FLUID LEVEL MEASUREMENTS FOR WELLS MKTF-1 THROUGH MKTF-50
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground-water Elevation (ft)	Corrected Water Table[1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
MKTF-32	10/23/19	2.00	27.75	ND	0.00	14.01	6,897.10	NA	9- 26	Chinle/Alluvium Interface
MKTF-32	02/26/20	2.00	27.75	ND	0.00	13.78	6,897.33	NA	9- 26	Chinle/Alluvium Interface
MKTF-32	06/29/20	2.00	27.75	ND	0.00	14.25	6,896.86	NA	9- 26	Chinle/Alluvium Interface
MKTF-32	09/14/20	2.00	27.46	ND	0.00	14.58	6,896.53	NA	9- 26	Chinle/Alluvium Interface
MKTF-32	11/10/20	2.00	27.46	ND	0.00	14.31	6,896.80	NA	9- 26	Chinle/Alluvium Interface
MKTF-32	12/04/20	2.00	27.82	ND	0.00	14.25	6,896.86	NA	9- 26	Chinle/Alluvium Interface
MKTF-32	01/28/21	2.00	27.82	14.08	0.01	14.08	6,897.03	6897.04	9- 26	Chinle/Alluvium Interface
MKTF-32	02/27/21	2.00	27.79	14.01	0.01	14.02	6,897.09	6897.10	9- 26	Chinle/Alluvium Interface
MKTF-32	03/31/21	2.00	27.79	ND	0.00	14.11	6,897.00	NA	9- 26	Chinle/Alluvium Interface
MKTF-32	04/26/21	2.00	27.79	ND	0.00	13.90	6,897.21	NA	9- 26	Chinle/Alluvium Interface
MKTF-32	05/20/21	2.00	27.79	ND	0.00	14.15	6,896.96	NA	9- 26	Chinle/Alluvium Interface
MKTF-32	06/01/21	2.00	27.79	ND	0.00	13.86	6,897.25	NA	9- 26	Chinle/Alluvium Interface

TABLE 2A. FLUID LEVEL MEASUREMENTS FOR WELLS MKTF-1 THROUGH MKTF-50
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground-water Elevation (ft)	Corrected Water Table[1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
MKTF-33	10/24/19	2.00	33.22	ND	0.00	22.50	6,917.25	NA	20 - 30	Chinle/Alluvium Interface
MKTF-33	02/27/20	2.00	33.20	ND	0.00	22.71	6,917.04	NA	20 - 30	Chinle/Alluvium Interface
MKTF-33	06/29/20	2.00	33.20	ND	0.00	21.17	6,918.58	NA	20 - 30	Chinle/Alluvium Interface
MKTF-33	09/14/20	2.00	33.15	21.61	6.41	28.02	6,911.73	6916.86	20 - 30	Chinle/Alluvium Interface
MKTF-33	11/10/20	2.00	33.15	21.65	6.16	27.81	6,911.94	6916.87	20 - 30	Chinle/Alluvium Interface
MKTF-33	12/04/20	2.00	33.57	21.69	6.08	27.77	6,911.98	6916.84	20 - 30	Chinle/Alluvium Interface
MKTF-33	01/28/21	2.00	33.57	22.58	3.38	25.96	6,913.79	6916.49	20 - 30	Chinle/Alluvium Interface
MKTF-33	02/27/21	2.00	33.28	23.00	0.75	23.75	6,916.00	6916.60	20 - 30	Chinle/Alluvium Interface
MKTF-33	03/31/21	2.00	33.28	23.19	0.22	23.41	6,916.34	6916.52	20 - 30	Chinle/Alluvium Interface
MKTF-33	04/26/21	2.00	33.28	24.16	0.61	24.77	6,914.98	6915.47	20 - 30	Chinle/Alluvium Interface
MKTF-33	05/20/21	2.00	33.28	23.21	0.31	23.52	6,916.23	6916.48	20 - 30	Chinle/Alluvium Interface
MKTF-33	06/01/21	2.00	33.28	23.07	0.38	23.45	6,916.30	6916.60	20 - 30	Chinle/Alluvium Interface

TABLE 2A. FLUID LEVEL MEASUREMENTS FOR WELLS MKTF-1 THROUGH MKTF-50
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground-water Elevation (ft)	Corrected Water Table[1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
MKTF-34	11/12/19	2.00	27.70	ND	0.00	18.06	6,927.29	NA	9 - 24	Chinle/Alluvium Interface
MKTF-34	02/05/20	2.00	27.70	ND	0.00	17.78	6,927.57	NA	9 - 24	Chinle/Alluvium Interface
MKTF-34	06/29/20	2.00	27.70	19.04	0.02	19.06	6,926.29	6926.31	9 - 24	Chinle/Alluvium Interface
MKTF-34	09/14/20	2.00	27.76	ND	0.00	19.09	6,926.26	NA	9 - 24	Chinle/Alluvium Interface
MKTF-34	11/10/20	2.00	27.76	ND	0.00	19.08	6,926.27	NA	9 - 24	Chinle/Alluvium Interface
MKTF-34	12/04/20	2.00	27.78	18.91	0.01	18.92	6,926.43	6,926.44	9 - 24	Chinle/Alluvium Interface
MKTF-34	01/28/21	2.00	27.80	ND	0.00	19.39	6,925.96	NA	9 - 24	Chinle/Alluvium Interface
MKTF-34	02/28/21	2.00	27.79	18.40	0.01	18.41	6,926.94	6,926.95	9 - 24	Chinle/Alluvium Interface
MKTF-34	03/31/21	2.00	27.79	ND	0.00	20.61	6,924.74	NA	9 - 24	Chinle/Alluvium Interface
MKTF-34	04/26/21	2.00	27.79	ND	0.00	22.61	6,922.74	NA	9 - 24	Chinle/Alluvium Interface
MKTF-34	05/20/21	2.00	27.79	ND	0.00	20.60	6,924.75	NA	9 - 24	Chinle/Alluvium Interface
MKTF-34	06/01/21	2.00	27.79	ND	0.00	20.23	6,925.12	NA	9 - 24	Chinle/Alluvium Interface

TABLE 2A. FLUID LEVEL MEASUREMENTS FOR WELLS MKTF-1 THROUGH MKTF-50
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground-water Elevation (ft)	Corrected Water Table[1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
MKTF-35	11/12/19	2.00	16.45	ND	0.00	8.60	6,943.05	NA	6 - 16	Chinle/Alluvium Interface
MKTF-35	02/05/20	2.00	16.45	ND	0.00	9.28	6,942.37	NA	6 - 16	Chinle/Alluvium Interface
MKTF-35	06/30/20	2.00	16.45	ND	0.00	9.25	6,942.40	NA	6 - 16	Chinle/Alluvium Interface
MKTF-35	09/14/20	2.00	16.23	ND	0.00	8.59	6,943.06	NA	6 - 16	Chinle/Alluvium Interface
MKTF-35	11/10/20	2.00	16.23	ND	0.00	8.86	6,942.79	NA	6 - 16	Chinle/Alluvium Interface
MKTF-35	12/04/20	2.00	16.39	9.02	0.01	9.03	6,942.62	6,942.63	6 - 16	Chinle/Alluvium Interface
MKTF-35	01/28/21	2.00	16.39	ND	0.00	9.46	6,942.19	NA	6 - 16	Chinle/Alluvium Interface
MKTF-35	02/28/21	2.00	16.55	ND	0.00	9.17	6,942.48	NA	6 - 16	Chinle/Alluvium Interface
MKTF-35	03/31/21	2.00	16.55	ND	0.00	9.50	6,942.15	NA	6 - 16	Chinle/Alluvium Interface
MKTF-35	04/26/21	2.00	16.55	ND	0.00	10.33	6,941.32	NA	6 - 16	Chinle/Alluvium Interface
MKTF-35	05/20/21	2.00	16.55	ND	0.00	9.60	6,942.05	NA	6 - 16	Chinle/Alluvium Interface
MKTF-35	06/01/21	2.00	16.55	ND	0.00	9.47	6,942.18	NA	6 - 16	Chinle/Alluvium Interface

TABLE 2A. FLUID LEVEL MEASUREMENTS FOR WELLS MKTF-1 THROUGH MKTF-50
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground-water Elevation (ft)	Corrected Water Table[1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
MKTF-36	12/02/19	2.00	15.61	8.25	0.70	8.95	6,944.56	6,945.12	5 - 15	Chinle/Alluvium Interface
MKTF-36	02/03/20	2.00	15.61	7.89	0.55	8.44	6,945.07	6945.51	5 - 15	Chinle/Alluvium Interface
MKTF-36	06/30/20	2.00	15.61	8.04	0.21	8.25	6,945.26	6945.43	5 - 15	Chinle/Alluvium Interface
MKTF-36	09/14/20	2.00	15.58	ND	0.00	7.87	6,945.64	NA	5 - 15	Chinle/Alluvium Interface
MKTF-36	11/10/20	2.00	15.58	7.98	0.05	8.03	6,945.48	6945.52	5 - 15	Chinle/Alluvium Interface
MKTF-36	12/04/20	2.00	15.58	8.10	0.07	8.17	6,945.34	6945.40	5 - 15	Chinle/Alluvium Interface
MKTF-36	01/28/21	2.00	15.58	8.13	0.05	8.18	6,945.33	6945.37	5 - 15	Chinle/Alluvium Interface
MKTF-36	02/28/21	2.00	15.58	8.26	0.01	8.27	6,945.24	6945.25	5 - 15	Chinle/Alluvium Interface
MKTF-36	03/31/21	2.00	15.58	ND	0.00	8.36	6,945.15	NA	5 - 15	Chinle/Alluvium Interface
MKTF-36	04/26/21	2.00	15.58	ND	0.00	8.91	6,944.60	NA	5 - 15	Chinle/Alluvium Interface
MKTF-36	05/20/21	2.00	15.58	ND	0.00	8.30	6,945.21	NA	5 - 15	Chinle/Alluvium Interface
MKTF-36	06/01/21	2.00	15.58	ND	0.00	8.11	6,945.40	NA	5 - 15	Chinle/Alluvium Interface

TABLE 2A. FLUID LEVEL MEASUREMENTS FOR WELLS MKTF-1 THROUGH MKTF-50
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground-water Elevation (ft)	Corrected Water Table[1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
MKTF-37	11/12/19	2.00	24.60	9.52	0.04	9.56	6,949.31	6,949.34	4 - 24	Chinle/Alluvium Interface
MKTF-37	02/03/20	2.00	24.60	9.77	0.12	9.89	6,948.98	6949.08	4 - 24	Chinle/Alluvium Interface
MKTF-37	06/30/20	2.00	24.60	9.61	0.02	9.63	6,949.24	6949.26	4 - 24	Chinle/Alluvium Interface
MKTF-37	09/14/20	2.00	24.54	ND	0.00	8.76	6,950.11	NA	4 - 24	Chinle/Alluvium Interface
MKTF-37	11/10/20	2.00	24.54	9.36	0.01	9.37	6,949.50	6949.51	4 - 24	Chinle/Alluvium Interface
MKTF-37	12/04/20	2.00	24.61	9.64	0.01	9.65	6,949.22	6949.23	4 - 24	Chinle/Alluvium Interface
MKTF-37	01/28/21	2.00	24.61	9.64	0.01	9.65	6,949.22	6949.23	4 - 24	Chinle/Alluvium Interface
MKTF-37	02/28/21	2.00	24.67	9.65	0.02	9.67	6,949.20	6949.22	4 - 24	Chinle/Alluvium Interface
MKTF-37	03/31/21	2.00	24.67	9.83	0.02	9.85	6,949.02	6949.04	4 - 24	Chinle/Alluvium Interface
MKTF-37	04/26/21	2.00	24.67	10.10	0.03	10.13	6,948.74	6948.76	4 - 24	Chinle/Alluvium Interface
MKTF-37	05/20/21	2.00	24.67	9.79	0.03	9.82	6,949.05	6949.07	4 - 24	Chinle/Alluvium Interface
MKTF-37	06/01/21	2.00	24.67	9.86	0.04	9.90	6,948.97	6949.00	4 - 24	Chinle/Alluvium Interface

TABLE 2A. FLUID LEVEL MEASUREMENTS FOR WELLS MKTF-1 THROUGH MKTF-50
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground-water Elevation (ft)	Corrected Water Table[1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
MKTF-38	12/03/19	2.00	20.29	ND	0.00	9.50	6,945.39	NA	5 - 20	Chinle/Alluvium Interface
MKTF-38	03/04/20	2.00	20.31	ND	0.00	9.61	6,945.28	NA	5 - 20	Chinle/Alluvium Interface
MKTF-38	06/26/20	2.00	20.33	ND	0.00	9.38	6,945.51	NA	5 - 20	Chinle/Alluvium Interface
MKTF-38	09/14/20	2.00	20.18	ND	0.00	8.55	6,946.34	NA	5 - 20	Chinle/Alluvium Interface
MKTF-38	11/10/20	2.00	20.18	ND	0.00	9.12	6,945.77	NA	5 - 20	Chinle/Alluvium Interface
MKTF-38	12/04/20	2.00	21.30	9.35	0.01	9.36	6,945.53	6,945.54	5 - 20	Chinle/Alluvium Interface
MKTF-38	02/28/21	2.00	21.30	ND	0.00	9.22	6,945.67	NA	5 - 20	Chinle/Alluvium Interface
MKTF-38	02/28/21	2.00	20.34	ND	0.00	9.17	6,945.72	NA	5 - 20	Chinle/Alluvium Interface
MKTF-38	03/31/21	2.00	20.34	ND	0.00	9.30	6,945.59	NA	5 - 20	Chinle/Alluvium Interface
MKTF-38	04/26/21	2.00	20.34	ND	0.00	8.86	6,946.03	NA	5 - 20	Chinle/Alluvium Interface
MKTF-38	05/20/21	2.00	20.34	ND	0.00	9.31	6,945.58	NA	5 - 20	Chinle/Alluvium Interface
MKTF-38	05/20/21	2.00	20.34	ND	0.00	8.95	6,945.94	NA	5 - 20	Chinle/Alluvium Interface

TABLE 2A. FLUID LEVEL MEASUREMENTS FOR WELLS MKTF-1 THROUGH MKTF-50
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground-water Elevation (ft)	Corrected Water Table[1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
MKTF-39	11/04/19	2.00	15.18	ND	0.00	9.59	6,944.16	NA	5 - 15	Chinle/Alluvium Interface
MKTF-39	02/03/20	2.00	15.20	ND	0.00	10.10	6,943.65	NA	5 - 15	Chinle/Alluvium Interface
MKTF-39	06/26/20	2.00	15.00	ND	0.00	9.63	6,944.12	NA	5 - 15	Chinle/Alluvium Interface
MKTF-39	09/15/20	2.00	14.19	ND	0.00	9.58	6,944.17	NA	5 - 15	Chinle/Alluvium Interface
MKTF-39	11/10/20	2.00	14.19	ND	0.00	10.05	6,943.70	NA	5 - 15	Chinle/Alluvium Interface
MKTF-39	12/04/20	2.00	15.19	ND	0.00	10.15	6,943.70	NA	5 - 15	Chinle/Alluvium Interface
MKTF-39	01/28/21	2.00	15.19	9.45	2.13	11.58	6,942.17	6,943.87	5 - 15	Chinle/Alluvium Interface
MKTF-39	02/28/21	2.00	15.21	9.31	0.71	10.02	6,943.73	6,944.30	5 - 15	Chinle/Alluvium Interface
MKTF-39	03/31/21	2.00	15.21	9.38	0.82	10.20	6,943.55	6,944.21	5 - 15	Chinle/Alluvium Interface
MKTF-39	04/26/21	2.00	15.21	11.16	0.03	11.19	6,942.56	6,942.58	5 - 15	Chinle/Alluvium Interface
MKTF-39	05/20/21	2.00	15.21	9.36	0.86	10.22	6,943.53	6,944.22	5 - 15	Chinle/Alluvium Interface
MKTF-39	06/01/21	2.00	15.21	9.27	0.79	10.06	6,943.69	6,944.32	5 - 15	Chinle/Alluvium Interface

TABLE 2A. FLUID LEVEL MEASUREMENTS FOR WELLS MKTF-1 THROUGH MKTF-50
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground-water Elevation (ft)	Corrected Water Table[1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
MKTF-40	10/22/19	2.00	23.62	ND	0.00	13.04	6,881.29	NA	5 - 20	Chinle/Alluvium Interface
MKTF-40	02/27/20	2.00	23.64	ND	0.00	13.23	6,881.10	NA	5 - 20	Chinle/Alluvium Interface
MKTF-40	06/26/20	2.00	23.64	ND	0.00	12.75	6,881.58	NA	5 - 20	Chinle/Alluvium Interface
MKTF-40	09/15/20	2.00	23.66	ND	0.00	13.39	6,880.94	NA	5 - 20	Chinle/Alluvium Interface
MKTF-40	11/10/20	2.00	23.66	ND	0.00	13.71	6,880.62	NA	5 - 20	Chinle/Alluvium Interface
MKTF-40	12/04/20	2.00	23.67	ND	0.00	13.99	6,880.34	NA	5 - 20	Chinle/Alluvium Interface
MKTF-40	01/28/21	2.00	23.68	ND	0.00	14.22	6,880.11	NA	5 - 20	Chinle/Alluvium Interface
MKTF-40	02/28/21	2.00	23.66	ND	0.00	14.17	6,880.16	NA	5 - 20	Chinle/Alluvium Interface
MKTF-40	03/31/21	2.00	23.66	ND	0.00	14.65	6,879.68	NA	5 - 20	Chinle/Alluvium Interface
MKTF-40	04/26/21	2.00	23.66	ND	0.00	15.65	6,878.68	NA	5 - 20	Chinle/Alluvium Interface
MKTF-40	05/20/21	2.00	23.66	ND	0.00	14.63	6,879.70	NA	5 - 20	Chinle/Alluvium Interface
MKTF-40	06/01/21	2.00	23.66	ND	0.00	14.70	6,879.63	NA	5 - 20	Chinle/Alluvium Interface

TABLE 2A. FLUID LEVEL MEASUREMENTS FOR WELLS MKTF-1 THROUGH MKTF-50
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground-water Elevation (ft)	Corrected Water Table[1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
MKTF-41	10/23/19	2.00	39.71	ND	0.00	20.02	6,873.62	NA	22 - 37	Chinle/Alluvium Interface
MKTF-41	02/26/20	2.00	40.10	ND	0.00	20.15	6,873.49	NA	22 - 37	Chinle/Alluvium Interface
MKTF-41	06/29/20	2.00	40.10	ND	0.00	19.77	6,873.87	NA	22 - 37	Chinle/Alluvium Interface
MKTF-41	09/14/20	2.00	39.66	ND	0.00	20.72	6,872.92	NA	22 - 37	Chinle/Alluvium Interface
MKTF-41	11/10/20	2.00	39.66	ND	0.00	21.01	6,872.63	NA	22 - 37	Chinle/Alluvium Interface
MKTF-41	12/04/20	2.00	39.80	ND	0.00	20.90	6,872.74	NA	22 - 37	Chinle/Alluvium Interface
MKTF-41	01/28/21	2.00	39.94	ND	0.00	21.21	6,872.43	NA	22 - 37	Chinle/Alluvium Interface
MKTF-41	02/27/21	2.00	39.85	ND	0.00	21.11	6,872.53	NA	22 - 37	Chinle/Alluvium Interface
MKTF-41	03/31/21	2.00	39.85	ND	0.00	21.41	6,872.23	NA	22 - 37	Chinle/Alluvium Interface
MKTF-41	04/26/21	2.00	39.85	ND	0.00	21.41	6,872.23	NA	22 - 37	Chinle/Alluvium Interface
MKTF-41	05/20/21	2.00	39.85	ND	0.00	21.40	6,872.24	NA	22 - 37	Chinle/Alluvium Interface
MKTF-41	06/01/21	2.00	39.85	ND	0.00	21.14	6,872.50	NA	22 - 37	Chinle/Alluvium Interface

TABLE 2A. FLUID LEVEL MEASUREMENTS FOR WELLS MKTF-1 THROUGH MKTF-50
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground-water Elevation (ft)	Corrected Water Table[1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
MKTF-42	10/23/19	2.00	33.18	ND	0.00	16.52	6,876.43	NA	10 - 30	Chinle/Alluvium Interface
MKTF-42	02/26/20	2.00	33.15	ND	0.00	16.79	6,876.16	NA	10 - 30	Chinle/Alluvium Interface
MKTF-42	06/30/20	2.00	33.15	ND	0.00	16.25	6,876.70	NA	10 - 30	Chinle/Alluvium Interface
MKTF-42	09/14/20	2.00	33.10	ND	0.00	16.35	6,876.60	NA	10 - 30	Chinle/Alluvium Interface
MKTF-42	11/10/20	2.00	33.10	ND	0.00	15.30	6,877.65	NA	10 - 30	Chinle/Alluvium Interface
MKTF-42	12/04/20	2.00	32.95	ND	0.00	16.41	6,876.54	NA	10 - 30	Chinle/Alluvium Interface
MKTF-42	01/28/21	2.00	32.95	ND	0.00	16.85	6,876.10	NA	10 - 30	Chinle/Alluvium Interface
MKTF-42	02/27/21	2.00	33.24	ND	0.00	16.83	6,876.12	NA	10 - 30	Chinle/Alluvium Interface
MKTF-42	03/31/21	2.00	33.24	ND	0.00	17.17	6,875.78	NA	10 - 30	Chinle/Alluvium Interface
MKTF-42	04/26/21	2.00	33.24	ND	0.00	18.91	6,874.04	NA	10 - 30	Chinle/Alluvium Interface
MKTF-42	05/20/21	2.00	33.24	ND	0.00	17.10	6,875.85	NA	10 - 30	Chinle/Alluvium Interface
MKTF-42	06/01/21	2.00	33.24	ND	0.00	17.07	6,875.88	NA	10 - 30	Chinle/Alluvium Interface

TABLE 2A. FLUID LEVEL MEASUREMENTS FOR WELLS MKTF-1 THROUGH MKTF-50
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground-water Elevation (ft)	Corrected Water Table[1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
MKTF-43	10/24/19	2.00	15.38	ND	0.00	4.34	6,872.56	NA	2 - 12	Chinle/Alluvium Interface
MKTF-43	02/26/20	2.00	15.43	ND	0.00	6.33	6,870.57	NA	2 - 12	Chinle/Alluvium Interface
MKTF-43	06/30/20	2.00	15.43	ND	0.00	5.50	6,871.40	NA	2 - 12	Chinle/Alluvium Interface
MKTF-43	09/14/20	2.00	16.22	ND	0.00	6.45	6,870.45	NA	2 - 12	Chinle/Alluvium Interface
MKTF-43	11/10/20	2.00	16.22	ND	0.00	7.48	6,869.42	NA	2 - 12	Chinle/Alluvium Interface
MKTF-43	12/04/20	2.00	16.92	ND	0.00	8.12	6,868.78	NA	2 - 12	Chinle/Alluvium Interface
MKTF-43	01/28/21	2.00	16.92	ND	0.00	8.69	6,868.21	NA	2 - 12	Chinle/Alluvium Interface
MKTF-43	02/27/21	2.00	16.95	ND	0.00	8.67	6,868.23	NA	2 - 12	Chinle/Alluvium Interface
MKTF-43	03/31/21	2.00	16.95	ND	0.00	8.49	6,868.41	NA	2 - 12	Chinle/Alluvium Interface
MKTF-43	04/26/21	2.00	16.95	ND	0.00	8.66	6,868.24	NA	2 - 12	Chinle/Alluvium Interface
MKTF-43	05/20/21	2.00	16.95	ND	0.00	8.47	6,868.43	NA	2 - 12	Chinle/Alluvium Interface
MKTF-43	06/01/21	2.00	16.95	ND	0.00	8.61	6,868.29	NA	2 - 12	Chinle/Alluvium Interface

TABLE 2A. FLUID LEVEL MEASUREMENTS FOR WELLS MKTF-1 THROUGH MKTF-50
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground-water Elevation (ft)	Corrected Water Table[1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
MKTF-44	10/24/19	2.00	51.16	ND	0.00	38.54	6,831.41	NA	38 - 48	Chinle/Alluvium Interface
MKTF-44	03/04/20	2.00	51.15	ND	0.00	30.34	6,839.61	NA	38 - 48	Chinle/Alluvium Interface
MKTF-44	06/26/20	2.00	51.15	ND	0.00	33.08	6,836.87	NA	38 - 48	Chinle/Alluvium Interface
MKTF-44	09/14/20	2.00	51.95	ND	0.00	28.00	6,841.95	NA	38 - 48	Chinle/Alluvium Interface
MKTF-44	12/04/20	2.00	51.39	ND	0.00	39.59	6,830.36	NA	38 - 48	Chinle/Alluvium Interface
MKTF-44	02/28/21	2.00	51.50	ND	0.00	38.50	6,831.45	NA	38 - 48	Chinle/Alluvium Interface
MKTF-44	03/31/21	2.00	51.50	ND	0.00	45.28	6,824.67	NA	38 - 48	Chinle/Alluvium Interface
MKTF-44	04/26/21	2.00	51.50	ND	0.00	45.33	6,824.62	NA	38 - 48	Chinle/Alluvium Interface
MKTF-44	05/20/21	2.00	51.50	ND	0.00	45.11	6,824.84	NA	38 - 48	Chinle/Alluvium Interface
MKTF-44	06/01/21	2.00	51.50	ND	0.00	44.28	6,825.67	NA	38 - 48	Chinle/Alluvium Interface

TABLE 2A. FLUID LEVEL MEASUREMENTS FOR WELLS MKTF-1 THROUGH MKTF-50
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground-water Elevation (ft)	Corrected Water Table[1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
MKTF-45	11/21/19	4.00	30.24	11.00	10.90	21.90	6,927.69	6,936.41	Unknown	Chinle/Alluvium Interface
MKTF-45	12/02/19	4.00	30.24	12.38	6.57	18.95	6,930.64	6,935.90	Unknown	Chinle/Alluvium Interface
MKTF-45	02/03/20	4.00	30.24	9.60	9.02	18.62	6,930.97	6938.19	Unknown	Chinle/Alluvium Interface
MKTF-45	06/30/20	4.00	30.24	11.08	8.00	19.08	6,930.51	6936.91	Unknown	Chinle/Alluvium Interface
MKTF-45	09/14/20	4.00	37.45	13.14	5.29	18.43	6,931.16	6935.39	Unknown	Chinle/Alluvium Interface
MKTF-45	11/10/20	4.00	37.45	12.94	1.82	14.76	6,934.83	6936.29	Unknown	Chinle/Alluvium Interface
MKTF-45	12/04/20	4.00	30.45	12.66	1.85	14.51	6,935.08	6936.56	Unknown	Chinle/Alluvium Interface
MKTF-45	01/28/21	4.00	30.45	16.00	0.13	16.13	6,933.46	6933.56	Unknown	Chinle/Alluvium Interface
MKTF-45	02/27/21	4.00	30.50	13.55	0.01	13.56	6,936.03	6936.04	Unknown	Chinle/Alluvium Interface
MKTF-45	03/31/21	4.00	30.50	15.55	0.02	15.57	6,934.02	6934.04	Unknown	Chinle/Alluvium Interface
MKTF-45	04/26/21	4.00	30.50	16.34	0.03	16.37	6,933.22	6933.24	Unknown	Chinle/Alluvium Interface
MKTF-45	05/20/21	4.00	30.50	15.50	0.51	16.01	6,933.58	6933.99	Unknown	Chinle/Alluvium Interface
MKTF-45	06/01/21	4.00	30.50	16.03	0.02	16.05	6,933.54	6933.56	Unknown	Chinle/Alluvium Interface

TABLE 2A. FLUID LEVEL MEASUREMENTS FOR WELLS MKTF-1 THROUGH MKTF-50
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground-water Elevation (ft)	Corrected Water Table[1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
MKTF-46	12/02/19	2.00	21.29	ND	0.00	10.70	6,946.90	NA	3 - 18	Chinle/Alluvium Interface
MKTF-46	03/05/20	2.00	18.00	ND	0.00	10.93	6,946.67	NA	3 - 18	Chinle/Alluvium Interface
MKTF-46	06/30/20	2.00	18.00	ND	0.00	11.08	6,946.52	NA	3 - 18	Chinle/Alluvium Interface
MKTF-46	09/14/20	2.00	25.29	ND	0.00	10.18	6,947.42	NA	3 - 18	Chinle/Alluvium Interface
MKTF-46	11/10/20	2.00	25.29	ND	0.00	10.57	6,947.03	NA	3 - 18	Chinle/Alluvium Interface
MKTF-46	12/04/20	2.00	21.30	ND	0.00	10.77	6,946.83	NA	3 - 18	Chinle/Alluvium Interface
MKTF-46	01/28/21	2.00	21.30	ND	0.00	11.32	6,946.28	NA	3 - 18	Chinle/Alluvium Interface
MKTF-46	02/27/21	2.00	21.30	ND	0.00	10.82	6,946.78	NA	3 - 18	Chinle/Alluvium Interface
MKTF-46	03/31/21	2.00	21.30	ND	0.00	10.90	6,946.70	NA	3 - 18	Chinle/Alluvium Interface
MKTF-46	04/26/21	2.00	21.30	ND	0.00	11.13	6,946.47	NA	3 - 18	Chinle/Alluvium Interface
MKTF-46	05/20/21	2.00	21.30	ND	0.00	11.03	6,946.57	NA	3 - 18	Chinle/Alluvium Interface
MKTF-46	06/01/21	2.00	21.30	ND	0.00	11.09	6,946.51	NA	3 - 18	Chinle/Alluvium Interface

TABLE 2A. FLUID LEVEL MEASUREMENTS FOR WELLS MKTF-1 THROUGH MKTF-50
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground-water Elevation (ft)	Corrected Water Table[1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
MKTF-47	12/02/19	2.00	14.30	ND	0.00	9.78	6,949.31	NA	4 - 14	Chinle/Alluvium Interface
MKTF-47	03/05/20	2.00	14.00	ND	0.00	9.89	6,949.20	NA	4 - 14	Chinle/Alluvium Interface
MKTF-47	06/29/20	2.00	14.00	ND	0.00	9.50	6,949.59	NA	4 - 14	Chinle/Alluvium Interface
MKTF-47	09/15/20	2.00	14.31	8.53	0.01	8.54	6,950.55	6950.56	4 - 14	Chinle/Alluvium Interface
MKTF-47	11/10/20	2.00	14.31	ND	0.00	9.33	6,949.76	NA	4 - 14	Chinle/Alluvium Interface
MKTF-47	12/04/20	2.00	14.31	9.58	0.01	9.59	6,949.50	6949.51	4 - 14	Chinle/Alluvium Interface
MKTF-47	01/28/21	2.00	14.31	ND	0.00	9.34	6,949.75	NA	4 - 14	Chinle/Alluvium Interface
MKTF-47	02/27/21	2.00	14.30	ND	0.00	9.15	6,949.94	NA	4 - 14	Chinle/Alluvium Interface
MKTF-47	03/31/21	2.00	14.30	ND	0.00	DRY	NA	NA	4 - 14	Chinle/Alluvium Interface
MKTF-47	04/26/21	2.00	14.30	ND	0.00	DRY	NA	NA	4 - 14	Chinle/Alluvium Interface
MKTF-47	05/20/21	2.00	14.30	ND	0.00	DRY	NA	NA	4 - 14	Chinle/Alluvium Interface
MKTF-47	06/01/21	2.00	14.30	ND	0.00	DRY	NA	NA	4 - 14	Chinle/Alluvium Interface

TABLE 2A. FLUID LEVEL MEASUREMENTS FOR WELLS MKTF-1 THROUGH MKTF-50
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground-water Elevation (ft)	Corrected Water Table[1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
MKTF-48	12/02/19	2.00	20.92	ND	0.00	11.85	6,949.88	NA	2 - 17	Chinle/Alluvium Interface
MKTF-48	03/03/20	2.00	18.00	12.66	0.16	12.82	6,948.91	6949.04	2 - 17	Chinle/Alluvium Interface
MKTF-48	06/29/20	2.00	18.00	ND	0.00	11.58	6,950.15	NA	2 - 17	Chinle/Alluvium Interface
MKTF-48	09/15/20	2.00	19.91	11.85	0.01	11.86	6,949.87	6949.88	2 - 17	Chinle/Alluvium Interface
MKTF-48	11/10/20	2.00	19.91	12.40	0.11	12.51	6,949.22	6949.31	2 - 17	Chinle/Alluvium Interface
MKTF-48	12/04/20	2.00	20.94	12.77	0.33	13.10	6,948.63	6948.89	2 - 17	Chinle/Alluvium Interface
MKTF-48	01/28/21	2.00	21.97	12.19	0.01	12.20	6,949.53	6949.54	2 - 17	Chinle/Alluvium Interface
MKTF-48	02/27/21	2.00	20.95	12.19	0.06	12.25	6,949.48	6949.53	2 - 17	Chinle/Alluvium Interface
MKTF-48	03/31/21	2.00	20.95	12.41	0.24	12.65	6,949.08	6949.27	2 - 17	Chinle/Alluvium Interface
MKTF-48	04/26/21	2.00	20.95	13.71	0.24	13.95	6,947.78	6947.97	2 - 17	Chinle/Alluvium Interface
MKTF-48	05/20/21	2.00	20.95	12.38	0.14	12.52	6,949.21	6949.32	2 - 17	Chinle/Alluvium Interface
MKTF-48	06/01/21	2.00	20.95	12.64	0.24	12.88	6,948.85	6949.04	2 - 17	Chinle/Alluvium Interface

TABLE 2A. FLUID LEVEL MEASUREMENTS FOR WELLS MKTF-1 THROUGH MKTF-50
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground-water Elevation (ft)	Corrected Water Table[1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
MKTF-49	12/03/19	2.00	24.90	ND	0.00	19.90	6,926.86	NA	5 - 25	Chinle/Alluvium Interface
MKTF-49	03/04/20	2.00	28.00	ND	0.00	20.27	6,926.49	NA	5 - 25	Chinle/Alluvium Interface
MKTF-49	06/30/20	2.00	28.00	ND	0.00	20.65	6,926.11	NA	5 - 25	Chinle/Alluvium Interface
MKTF-49	09/15/20	2.00	24.96	ND	0.00	20.33	6,926.43	NA	5 - 25	Chinle/Alluvium Interface
MKTF-49	11/10/20	2.00	24.96	ND	0.00	20.75	6,926.01	NA	5 - 25	Chinle/Alluvium Interface
MKTF-49	12/04/20	2.00	24.97	ND	0.00	20.81	6,925.95	NA	5 - 25	Chinle/Alluvium Interface
MKTF-49	01/28/21	2.00	24.98	ND	0.00	21.05	6,925.71	NA	5 - 25	Chinle/Alluvium Interface
MKTF-49	02/28/21	2.00	25.02	ND	0.00	21.05	6,925.71	NA	5 - 25	Chinle/Alluvium Interface
MKTF-49	03/31/21	2.00	25.02	ND	0.00	21.15	6,925.61	NA	5 - 25	Chinle/Alluvium Interface
MKTF-49	04/26/21	2.00	25.02	ND	0.00	20.11	6,926.65	NA	5 - 25	Chinle/Alluvium Interface
MKTF-49	05/20/21	2.00	25.02	ND	0.00	21.21	6,925.55	NA	5 - 25	Chinle/Alluvium Interface
MKTF-49	06/01/21	2.00	25.02	ND	0.00	20.92	6,925.84	NA	5 - 25	Chinle/Alluvium Interface
MKTF-49	06/01/21	2.00	25.02	ND	0.00	20.92	6,925.84	NA	5 - 25	Chinle/Alluvium Interface
MKTF-49	06/16/21	2.00	25.02	21.40	0.68	22.08	6,924.68	6925.22	5 - 25	Chinle/Alluvium Interface

TABLE 2A. FLUID LEVEL MEASUREMENTS FOR WELLS MKTF-1 THROUGH MKTF-50
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground-water Elevation (ft)	Corrected Water Table[1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
MKTF-50	12/03/19	2.00	21.65	ND	0.00	15.61	6,927.21	NA	3 - 18	Chinle/Alluvium Interface
MKTF-50	03/04/20	2.00	26.00	ND	0.00	15.87	6,926.95	NA	3 - 18	Chinle/Alluvium Interface
MKTF-50	06/30/20	2.00	26.00	ND	0.00	16.00	6,926.82	NA	3 - 18	Chinle/Alluvium Interface
MKTF-50	09/15/20	2.00	22.64	15.36	0.01	15.37	6,927.45	6927.46	3 - 18	Chinle/Alluvium Interface
MKTF-50	11/10/20	2.00	22.64	ND	0.00	16.03	6,926.79	NA	3 - 18	Chinle/Alluvium Interface
MKTF-50	12/04/20	2.00	21.63	ND	0.00	16.17	6,926.65	NA	3 - 18	Chinle/Alluvium Interface
MKTF-50	01/28/21	2.00	20.62	ND	0.00	16.43	6,926.39	NA	3 - 18	Chinle/Alluvium Interface
MKTF-50	02/28/21	2.00	21.70	ND	0.00	16.38	6,926.44	NA	3 - 18	Chinle/Alluvium Interface
MKTF-50	03/31/21	2.00	21.70	ND	0.00	16.48	6,926.34	NA	3 - 18	Chinle/Alluvium Interface
MKTF-50	04/26/21	2.00	21.70	ND	0.00	16.19	6,926.63	NA	3 - 18	Chinle/Alluvium Interface
MKTF-50	05/20/21	2.00	21.70	ND	0.00	16.47	6,926.35	NA	3 - 18	Chinle/Alluvium Interface
MKTF-50	06/01/21	2.00	21.70	ND	0.00	16.66	6,926.16	NA	3 - 18	Chinle/Alluvium Interface
MKTF-50	06/16/21	2.00	21.70	16.68	0.17	16.85	6,925.97	6926.11	3 - 18	Chinle/Alluvium Interface

Notes:

[1] = Corrected water table elevation calculation = (SPH thickness x 0.8) + ground water elevation
ft = feet
SPH = separate phase hydrocarbon
NA = Not applicable
ND = Not detected
Depth to Water Column - if 0.00 is indicated - means water is at top of casing (full) under artesian flow conditions.
Dry indicates no fluid was detected

TABLE 2B. FLUID LEVEL MEASUREMENTS FOR NON MKTF WELLS
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground water Elevation (ft)	Corrected Water Table [1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
GWM-1	10/21/19	2.00	26.20	20.64	0.19	20.83	6,891.78	6891.93	17.5 - 23.5	Chinle/Alluvial Interface
GWM-1	09/15/20	2.00	26.65	20.73	0.67	21.40	6,891.21	6891.75	17.5 - 23.5	Chinle/Alluvial Interface
GWM-1	11/09/20	2.00	26.65	20.88	0.84	21.72	6,890.89	6891.56	17.5 - 23.5	Chinle/Alluvial Interface
GWM-1	12/07/20	2.00	26.45	20.91	0.94	21.85	6,890.89	6891.56	17.5 - 23.5	Chinle/Alluvial Interface
GWM-1	01/28/21	2.00	26.25	21.10	1.20	22.30	6,890.31	6891.27	17.5 - 23.5	Chinle/Alluvial Interface
GWM-1	02/28/21	2.00	26.40	21.19	1.38	22.57	6,890.04	6891.14	17.5 - 23.5	Chinle/Alluvial Interface
GWM-1	03/31/21	2.00	26.55	22.57	3.83	26.40	6,886.21	6889.27	17.5 - 23.5	Chinle/Alluvial Interface
GWM-1	04/26/21	2.00	26.40	22.14	0.84	22.98	6,889.63	6890.30	17.5 - 23.5	Chinle/Alluvial Interface
GWM-1	05/20/21	2.00	26.40	21.66	1.26	22.92	6,889.69	6890.70	17.5 - 23.5	Chinle/Alluvial Interface
GWM-1	06/02/21	2.00	26.40	21.26	1.41	22.67	6,889.94	6891.07	17.5 - 23.5	Chinle/Alluvial Interface

TABLE 2B. FLUID LEVEL MEASUREMENTS FOR NON MKTF WELLS
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground water Elevation (ft)	Corrected Water Table [1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
GWM-2	10/19/19	2.00	18.81	ND	NA	DRY	NA	NA	3.2 - 16.2	Chinle/Alluvial Interface
GWM-2	09/15/20	2.00	18.08	ND	NA	DRY	NA	NA	3.2 - 16.2	Chinle/Alluvial Interface
GWM-2	11/10/20	2.00	18.08	ND	NA	DRY	NA	NA	3.2 - 16.2	Chinle/Alluvial Interface
GWM-2	12/07/20	2.00	18.08	ND	NA	DRY	NA	NA	3.2 - 16.2	Chinle/Alluvial Interface
GWM-2	01/28/21	2.00	18.08	ND	NA	DRY	NA	NA	3.2 - 16.2	Chinle/Alluvial Interface
GWM-2	02/28/21	2.00	18.08	ND	NA	DRY	NA	NA	3.2 - 16.2	Chinle/Alluvial Interface
GWM-2	03/31/21	2.00	18.08	ND	NA	DRY	NA	NA	3.2 - 16.2	Chinle/Alluvial Interface
GWM-2	04/26/21	2.00	18.08	ND	NA	DRY	NA	NA	3.2 - 16.2	Chinle/Alluvial Interface
GWM-2	05/20/21	2.00	18.08	ND	NA	DRY	NA	NA	3.2 - 16.2	Chinle/Alluvial Interface
GWM-2	06/03/21	2.00	18.08	ND	NA	DRY	NA	NA	3.2 - 16.2	Chinle/Alluvial Interface

TABLE 2B. FLUID LEVEL MEASUREMENTS FOR NON MKTF WELLS
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground water Elevation (ft)	Corrected Water Table [1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
GWM-3	08/06/19	2.00	18.04	ND	NA	DRY	DRY	NA	3 - 15	Chinle/Alluvial Interface
GWM-3	09/15/20	2.00	19.15	ND	NA	DRY	DRY	NA	3 - 15	Chinle/Alluvial Interface
GWM-3	10/11/20	2.00	19.15	ND	NA	DRY	DRY	NA	3 - 15	Chinle/Alluvial Interface
GWM-3	12/07/20	2.00	19.15	ND	NA	DRY	DRY	NA	3 - 15	Chinle/Alluvial Interface
GWM-3	01/28/21	2.00	19.15	ND	NA	DRY	DRY	NA	3 - 15	Chinle/Alluvial Interface
GWM-3	02/28/21	2.00	19.15	ND	NA	DRY	DRY	NA	3 - 15	Chinle/Alluvial Interface
GWM-3	03/31/21	2.00	19.15	ND	NA	DRY	DRY	NA	3 - 15	Chinle/Alluvial Interface
GWM-3	04/26/21	2.00	19.15	ND	NA	DRY	DRY	NA	3 - 15	Chinle/Alluvial Interface
GWM-3	05/20/21	2.00	19.15	ND	NA	DRY	DRY	NA	3 - 15	Chinle/Alluvial Interface
GWM-3	06/03/21	2.00	19.15	ND	NA	DRY	DRY	NA	3 - 15	Chinle/Alluvial Interface

TABLE 2B. FLUID LEVEL MEASUREMENTS FOR NON MKTF WELLS
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground water Elevation (ft)	Corrected Water Table [1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
KA-3	10/21/19	2.00	23.20	ND	NA	9.16	6,903.36	NA	15 - 25	Chinle/Alluvial Interface
KA-3	09/15/20	2.00	23.20	ND	NA	8.08	6,904.44	NA	15 - 25	Chinle/Alluvial Interface
KA-3	11/10/20	2.00	23.20	ND	NA	9.15	6,903.37	NA	15 - 25	Chinle/Alluvial Interface
KA-3	12/07/20	2.00	23.20	ND	NA	9.56	6,902.96	NA	15 - 25	Chinle/Alluvial Interface
KA-3	01/28/21	2.00	23.20	ND	NA	10.50	6,902.02	NA	15 - 25	Chinle/Alluvial Interface
KA-3	02/28/21	2.00	23.20	ND	NA	10.55	6,901.97	NA	15 - 25	Chinle/Alluvial Interface
KA-3	03/31/21	2.00	23.20	ND	NA	10.68	6,901.84	NA	15 - 25	Chinle/Alluvial Interface
KA-3	04/26/21	2.00	23.20	ND	NA	9.82	6,902.70	NA	15 - 25	Chinle/Alluvial Interface
KA-3	05/20/21	2.00	23.20	ND	NA	11.03	6,901.49	NA	15 - 25	Chinle/Alluvial Interface
KA-3	06/03/21	2.00	23.20	ND	NA	10.40	6,902.12	NA	15 - 25	Chinle/Alluvial Interface

TABLE 2B. FLUID LEVEL MEASUREMENTS FOR NON MKTF WELLS
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground water Elevation (ft)	Corrected Water Table [1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
NAPIS-1	10/21/19	2.00	13.53	7.66	0.20	7.86	6,906.00	6906.16	3.7 - 13.7	Chinle/Alluvial Interface
NAPIS-1	09/15/20	2.00	13.58	6.70	0.01	6.71	6,907.15	6907.158	3.7 - 13.7	Chinle/Alluvial Interface
NAPIS-1	11/10/20	2.00	13.58	7.19	0.01	7.20	6,906.66	6906.668	3.7 - 13.7	Chinle/Alluvial Interface
NAPIS-1	12/07/20	2.00	13.76	7.43	0.01	7.44	6,906.42	6906.428	3.7 - 13.7	Chinle/Alluvial Interface
NAPIS-1	01/28/21	2.00	13.94	7.88	0.01	7.89	6,905.97	6905.978	3.7 - 13.7	Chinle/Alluvial Interface
NAPIS-1	02/27/21	2.00	13.94	7.90	0.05	7.95	6,905.91	6905.95	3.7 - 13.7	Chinle/Alluvial Interface
NAPIS-1	03/31/21	2.00	13.94	ND	NA	8.01	6,905.85	NA	3.7 - 13.7	Chinle/Alluvial Interface
NAPIS-1	04/26/21	2.00	13.94	ND	NA	7.82	6,906.04	NA	3.7 - 13.7	Chinle/Alluvial Interface
NAPIS-1	05/20/21	2.00	13.94	ND	NA	8.52	6,905.34	NA	3.7 - 13.7	Chinle/Alluvial Interface
NAPIS-1	06/03/21	2.00	13.94	ND	NA	7.85	6,906.01	NA	3.7 - 13.7	Chinle/Alluvial Interface

TABLE 2B. FLUID LEVEL MEASUREMENTS FOR NON MKTF WELLS
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground water Elevation (ft)	Corrected Water Table [1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
NAPIS-2	10/21/19	2.00	13.61	ND	NA	9.40	6,903.25	NA	4.2 - 14.2	Chinle/Alluvial Interface
NAPIS-2	09/15/20	2.00	14.60	ND	NA	8.12	6,904.53	NA	4.2 - 14.2	Chinle/Alluvial Interface
NAPIS-2	11/10/20	2.00	14.60	ND	NA	8.51	6,904.14	NA	4.2 - 14.2	Chinle/Alluvial Interface
NAPIS-2	12/07/20	2.00	14.61	ND	NA	8.72	6,903.93	NA	4.2 - 14.2	Chinle/Alluvial Interface
NAPIS-2	01/28/21	2.00	14.62	ND	NA	9.16	6,903.49	NA	4.2 - 14.2	Chinle/Alluvial Interface
NAPIS-2	02/27/21	2.00	14.65	ND	NA	9.15	6,903.50	NA	4.2 - 14.2	Chinle/Alluvial Interface
NAPIS-2	03/31/21	2.00	14.65	ND	NA	9.32	6,903.33	NA	4.2 - 14.2	Chinle/Alluvial Interface
NAPIS-2	04/26/21	2.00	14.71	ND	NA	9.14	6,903.51	NA	4.2 - 14.2	Chinle/Alluvial Interface
NAPIS-2	05/20/21	2.00	14.74	ND	NA	8.96	6,903.69	NA	4.2 - 14.2	Chinle/Alluvial Interface
NAPIS-2	06/03/21	2.00	14.74	ND	NA	9.10	6,903.55	NA	4.2 - 14.2	Chinle/Alluvial Interface

TABLE 2B. FLUID LEVEL MEASUREMENTS FOR NON MKTF WELLS
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground water Elevation (ft)	Corrected Water Table [1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
NAPIS-3	10/21/19	2.00	30.42	ND	NA	10.02	6,902.74	NA	25.4 - 30-4	Chinle/Alluvial Interface
NAPIS-3	09/15/20	2.00	31.50	ND	NA	9.25	6,903.51	NA	25.4 - 30-4	Chinle/Alluvial Interface
NAPIS-3	11/10/20	2.00	31.50	ND	NA	9.47	6,903.29	NA	25.4 - 30-4	Chinle/Alluvial Interface
NAPIS-3	12/07/20	2.00	31.50	ND	NA	8.51	6,904.25	NA	25.4 - 30-4	Chinle/Alluvial Interface
NAPIS-3	01/28/21	2.00	31.50	ND	NA	9.00	6,903.76	NA	25.4 - 30-4	Chinle/Alluvial Interface
NAPIS-3	02/28/21	2.00	31.50	ND	NA	9.09	6,903.67	NA	25.4 - 30-4	Chinle/Alluvial Interface
NAPIS-3	03/31/21	2.00	31.50	ND	NA	9.27	6,903.49	NA	25.4 - 30-4	Chinle/Alluvial Interface
NAPIS-3	04/26/21	2.00	31.50	ND	NA	8.89	6,903.87	NA	25.4 - 30-4	Chinle/Alluvial Interface
NAPIS-3	05/20/21	2.00	31.50	ND	NA	9.30	6,903.46	NA	25.4 - 30-4	Chinle/Alluvial Interface
NAPIS-3	06/03/21	2.00	31.50	ND	NA	9.31	6,903.45	NA	25.4 - 30-4	Chinle/Alluvial Interface

TABLE 2B. FLUID LEVEL MEASUREMENTS FOR NON MKTF WELLS
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground water Elevation (ft)	Corrected Water Table [1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
OAPIS-1	10/21/19	2.00	27.78	ND	NA	11.44	6,905.29	NA	16 - 26	Chinle/Alluvial Interface
OAPIS-1	09/15/20	2.00	28.00	ND	NA	11.90	6,904.83	NA	16 - 26	Chinle/Alluvial Interface
OAPIS-1	11/10/20	2.00	28.00	ND	NA	12.02	6,904.71	NA	16 - 26	Chinle/Alluvial Interface
OAPIS-1	12/07/20	2.00	28.00	ND	NA	12.31	6,904.42	NA	16 - 26	Chinle/Alluvial Interface
OAPIS-1	01/28/21	2.00	28.00	ND	NA	12.98	6,903.75	NA	16 - 26	Chinle/Alluvial Interface
OAPIS-1	02/27/21	2.00	28.00	ND	NA	12.96	6,903.77	NA	16 - 26	Chinle/Alluvial Interface
OAPIS-1	03/31/21	2.00	28.00	ND	NA	13.48	6,903.25	NA	16 - 26	Chinle/Alluvial Interface
OAPIS-1	04/26/21	2.00	28.00	ND	NA	13.24	6,903.49	NA	16 - 26	Chinle/Alluvial Interface
OAPIS-1	05/20/21	2.00	28.00	ND	NA	13.88	6,902.85	NA	16 - 26	Chinle/Alluvial Interface
OAPIS-1	06/03/21	2.00	28.00	ND	NA	13.08	6,903.65	NA	16 - 26	Chinle/Alluvial Interface

TABLE 2B. FLUID LEVEL MEASUREMENTS FOR NON MKTF WELLS
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground water Elevation (ft)	Corrected Water Table [1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
OW-10	10/17/19	4.00	60.33	ND	NA	2.33	6,872.58	NA	40 - 60	Sonsela Sandstone
OW-10	09/20/20	4.00	66.30	ND	NA	7.70	6,867.21	NA	40 - 60	Sonsela Sandstone
OW-10	10/09/20	4.00	66.30	ND	NA	7.70	6,867.21	NA	40 - 60	Sonsela Sandstone
OW-10	12/07/20	4.00	66.30	ND	NA	7.61	6,867.30	NA	40 - 60	Sonsela Sandstone
OW-10	01/28/21	4.00	66.30	ND	NA	7.84	6,867.07	NA	40 - 60	Sonsela Sandstone
OW-10	02/28/21	4.00	66.30	ND	NA	7.85	6,867.06	NA	40 - 60	Sonsela Sandstone
OW-10	03/31/21	4.00	66.30	ND	NA	7.68	6,867.23	NA	40 - 60	Sonsela Sandstone
OW-10	04/26/21	4.00	66.30	ND	NA	7.67	6,867.24	NA	40 - 60	Sonsela Sandstone
OW-10	05/20/21	4.00	66.30	ND	NA	7.59	6,867.32	NA	40 - 60	Sonsela Sandstone
OW-10	06/03/21	4.00	66.30	ND	NA	7.89	6,867.02	NA	40 - 60	Sonsela Sandstone

TABLE 2B. FLUID LEVEL MEASUREMENTS FOR NON MKTF WELLS
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground water Elevation (ft)	Corrected Water Table [1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
OW-57	11/04/19	2.00	28.35	ND	NA	19.97	6,913.13	NA	15 - 25	Chinle/Alluvial Interface
OW-57	09/14/20	2.00	28.09	ND	NA	20.50	6,912.60	NA	15 - 25	Chinle/Alluvial Interface
OW-57	11/09/20	2.00	28.09	ND	NA	20.53	6,912.57	NA	15 - 25	Chinle/Alluvial Interface
OW-57	12/07/20	2.00	28.39	ND	NA	20.64	6,912.46	NA	15 - 25	Chinle/Alluvial Interface
OW-57	01/28/21	2.00	28.39	ND	NA	20.73	6,912.37	NA	15 - 25	Chinle/Alluvial Interface
OW-57	02/27/21	2.00	28.09	ND	NA	20.73	6,912.37	NA	15 - 25	Chinle/Alluvial Interface
OW-57	03/31/21	2.00	28.09	ND	NA	20.98	6,912.12	NA	15 - 25	Chinle/Alluvial Interface
OW-57	04/26/21	2.00	27.49	ND	NA	21.07	6,913.43	NA	15 - 25	Chinle/Alluvial Interface
OW-57	05/20/21	2.00	27.19	ND	NA	19.88	6,914.62	NA	15 - 25	Chinle/Alluvial Interface
OW-57	06/02/21	2.00	27.19	ND	NA	21.03	6,913.47	NA	15 - 25	Chinle/Alluvial Interface

TABLE 2B. FLUID LEVEL MEASUREMENTS FOR NON MKTF WELLS
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground water Elevation (ft)	Corrected Water Table [1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
OW-58	11/18/19	2.00	47.50	ND	NA	23.99	6,910.51	NA	38 - 48	Chinle/Alluvial Interface
OW-58	09/14/20	2.00	48.00	ND	NA	23.55	6,910.95	NA	38 - 48	Chinle/Alluvial Interface
OW-58	11/09/20	2.00	48.00	ND	NA	23.31	6,911.19	NA	38 - 48	Chinle/Alluvial Interface
OW-58	12/08/20	2.00	47.95	ND	NA	24.32	6,910.18	NA	38 - 48	Chinle/Alluvial Interface
OW-58	01/28/21	2.00	47.95	ND	NA	24.29	6,910.21	NA	38 - 48	Chinle/Alluvial Interface
OW-58	02/28/21	2.00	47.95	ND	NA	23.80	6,910.70	NA	38 - 48	Chinle/Alluvial Interface
OW-58	03/31/21	2.00	47.95	ND	NA	24.40	6,910.10	NA	38 - 48	Chinle/Alluvial Interface
OW-58	04/26/21	2.00	47.95	ND	NA	24.83	6,909.67	NA	38 - 48	Chinle/Alluvial Interface
OW-58	05/20/21	2.00	47.95	ND	NA	23.33	6,911.17	NA	38 - 48	Chinle/Alluvial Interface
OW-58	06/02/21	2.00	47.95	ND	NA	24.63	6,909.87	NA	38 - 48	Chinle/Alluvial Interface

TABLE 2B. FLUID LEVEL MEASUREMENTS FOR NON MKTF WELLS
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground water Elevation (ft)	Corrected Water Table [1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
OW-58A	09/15/20	4.00	36.00	ND	NA	26.87	6,909.42	NA	25 - 33	Chinle/Alluvial Interface
OW-58A	11/09/20	4.00	36.91	ND	NA	24.31	6,911.98	NA	25 - 33	Chinle/Alluvial Interface
OW-58A	12/08/20	4.00	36.38	ND	NA	26.71	6,909.58	NA	25 - 33	Chinle/Alluvial Interface
OW-58A	01/28/21	4.00	36.38	ND	NA	26.66	6,909.63	NA	25 - 33	Chinle/Alluvial Interface
OW-58A	02/28/21	4.00	36.50	ND	NA	26.51	6,909.78	NA	25 - 33	Chinle/Alluvial Interface
OW-58A	03/31/21	4.00	36.50	ND	NA	26.75	6,909.54	NA	25 - 33	Chinle/Alluvial Interface
OW-58A	04/26/21	4.00	36.74	ND	NA	27.01	6,909.28	NA	25 - 33	Chinle/Alluvial Interface
OW-58A	05/20/21	4.00	36.86	ND	NA	26.31	6,909.98	NA	25 - 33	Chinle/Alluvial Interface
OW-58A	06/02/21	4.00	36.86	ND	NA	26.63	6,909.66	NA	25 - 33	Chinle/Alluvial Interface

TABLE 2B. FLUID LEVEL MEASUREMENTS FOR NON MKTF WELLS
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground water Elevation (ft)	Corrected Water Table [1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
OW-61	11/04/19	4.00	32.00	17.54	3.09	20.63	6,941.25	6943.72	8 - 28	Chinle/Alluvial Interface
OW-61	09/15/20	4.00	31.85	16.88	2.52	19.40	6,942.48	6944.50	8 - 28	Chinle/Alluvial Interface
OW-61	11/09/20	4.00	31.85	18.22	1.36	19.58	6,942.30	6943.39	8 - 28	Chinle/Alluvial Interface
OW-61	12/08/20	4.00	31.33	18.40	1.90	20.30	6,941.58	6943.10	8 - 28	Chinle/Alluvial Interface
OW-61	01/28/21	4.00	30.81	19.13	0.65	19.78	6,942.10	6942.62	8 - 28	Chinle/Alluvial Interface
OW-61	02/27/21	4.00	31.83	18.89	1.21	20.10	6,941.78	6942.75	8 - 28	Chinle/Alluvial Interface
OW-61	03/31/21	4.00	31.83	18.82	2.46	21.28	6,940.60	6942.57	8 - 28	Chinle/Alluvial Interface
OW-61	04/26/21	4.00	33.87	18.93	2.50	21.43	6,940.45	6942.45	8 - 28	Chinle/Alluvial Interface
OW-61	05/20/21	4.00	34.89	19.11	2.84	21.95	6,939.93	6942.20	8 - 28	Chinle/Alluvial Interface
OW-61	06/02/21	4.00	34.89	18.62	2.27	20.89	6,940.99	6942.81	8 - 28	Chinle/Alluvial Interface

TABLE 2B. FLUID LEVEL MEASUREMENTS FOR NON MKTF WELLS
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground water Elevation (ft)	Corrected Water Table [1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
OW-62	11/18/19	4.00	31.47	23.72	0.62	24.34	6,911.75	6912.25	8 - 28	Chinle/Alluvial Interface
OW-62	09/15/20	4.00	32.05	23.62	0.25	23.87	6,912.22	6912.42	8 - 28	Chinle/Alluvial Interface
OW-62	11/09/20	4.00	32.05	23.70	0.30	24.00	6,912.09	6912.33	8 - 28	Chinle/Alluvial Interface
OW-62	12/08/20	4.00	31.66	23.69	0.29	23.98	6,912.11	6912.34	8 - 28	Chinle/Alluvial Interface
OW-62	01/28/21	4.00	31.27	23.75	0.30	24.05	6,912.04	6912.28	8 - 28	Chinle/Alluvial Interface
OW-62	02/27/21	4.00	31.67	23.82	0.33	24.15	6,911.94	6912.20	8 - 28	Chinle/Alluvial Interface
OW-62	03/31/21	4.00	31.67	23.85	0.31	24.16	6,911.93	6912.18	8 - 28	Chinle/Alluvial Interface
OW-62	04/26/21	4.00	32.47	23.93	0.17	24.10	6,911.99	6912.13	8 - 28	Chinle/Alluvial Interface
OW-62	05/20/21	4.00	32.87	23.80	0.64	24.44	6,911.65	6912.16	8 - 28	Chinle/Alluvial Interface
OW-62	06/02/21	4.00	32.87	22.97	0.25	23.22	6,912.87	6913.07	8 - 28	Chinle/Alluvial Interface

TABLE 2B. FLUID LEVEL MEASUREMENTS FOR NON MKTF WELLS
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground water Elevation (ft)	Corrected Water Table [1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
OW-63	11/18/19	4.00	32.00	ND	NA	20.30	6,913.57	NA	9 - 29	Chinle/Alluvial Interface
OW-63	09/14/20	4.00	32.05	ND	NA	20.73	6,913.14	NA	9 - 29	Chinle/Alluvial Interface
OW-63	11/09/20	4.00	32.05	ND	NA	20.85	6,913.02	NA	9 - 29	Chinle/Alluvial Interface
OW-63	12/08/20	4.00	32.22	ND	NA	20.97	6,912.90	NA	9 - 29	Chinle/Alluvial Interface
OW-63	01/28/21	4.00	32.22	ND	NA	21.15	6,912.72	NA	9 - 29	Chinle/Alluvial Interface
OW-63	02/27/21	4.00	32.22	ND	NA	21.13	6,912.74	NA	9 - 29	Chinle/Alluvial Interface
OW-63	03/31/21	4.00	32.22	ND	NA	21.28	6,912.59	NA	9 - 29	Chinle/Alluvial Interface
OW-63	04/26/21	4.00	32.22	ND	NA	21.40	6,912.47	NA	9 - 29	Chinle/Alluvial Interface
OW-63	05/20/21	4.00	32.22	ND	NA	21.52	6,912.35	NA	9 - 29	Chinle/Alluvial Interface
OW-63	06/02/21	4.00	32.22	ND	NA	21.37	6,912.50	NA	9 - 29	Chinle/Alluvial Interface

TABLE 2B. FLUID LEVEL MEASUREMENTS FOR NON MKTF WELLS
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground water Elevation (ft)	Corrected Water Table [1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
OW-64	11/18/19	4.00	27.35	ND	NA	8.40	6,937.69	NA	4 - 24	Chinle/Alluvial Interface
OW-64	09/14/20	4.00	27.35	ND	NA	7.95	6,938.14	NA	4 - 24	Chinle/Alluvial Interface
OW-64	11/09/20	4.00	27.35	ND	NA	8.18	6,937.91	NA	4 - 24	Chinle/Alluvial Interface
OW-64	12/07/20	4.00	27.35	ND	NA	8.26	6,937.83	NA	4 - 24	Chinle/Alluvial Interface
OW-64	01/28/21	4.00	27.35	ND	NA	8.54	6,937.55	NA	4 - 24	Chinle/Alluvial Interface
OW-64	02/27/21	4.00	27.35	ND	NA	8.29	6,937.80	NA	4 - 24	Chinle/Alluvial Interface
OW-64	03/31/21	4.00	27.35	ND	NA	8.37	6,937.72	NA	4 - 24	Chinle/Alluvial Interface
OW-64	04/26/21	4.00	27.35	ND	NA	8.28	6,937.81	NA	4 - 24	Chinle/Alluvial Interface
OW-64	05/20/21	4.00	27.35	ND	NA	8.08	6,938.01	NA	4 - 24	Chinle/Alluvial Interface
OW-64	06/02/21	4.00	27.35	ND	NA	8.13	6,937.96	NA	4 - 24	Chinle/Alluvial Interface

TABLE 2B. FLUID LEVEL MEASUREMENTS FOR NON MKTF WELLS
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground water Elevation (ft)	Corrected Water Table [1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
OW-65	11/04/19	4.00	40.00	22.30	8.55	30.85	6,921.98	6928.82	17 - 37	Chinle/Alluvial Interface
OW-65	09/14/20	4.00	42.80	24.70	6.06	30.76	6,922.07	6926.92	17 - 37	Chinle/Alluvial Interface
OW-65	11/09/20	4.00	42.80	25.05	7.30	32.35	6,920.48	6926.32	17 - 37	Chinle/Alluvial Interface
OW-65	12/08/20	4.00	42.50	25.79	6.16	31.95	6,920.88	6925.81	17 - 37	Chinle/Alluvial Interface
OW-65	01/28/21	4.00	42.50	26.63	5.12	31.75	6,921.08	6925.18	17 - 37	Chinle/Alluvial Interface
OW-65	02/27/21	4.00	41.75	26.41	7.30	33.71	6,919.12	6924.96	17 - 37	Chinle/Alluvial Interface
OW-65	03/31/21	4.00	41.75	27.40	6.48	33.88	6,918.95	6924.13	17 - 37	Chinle/Alluvial Interface
OW-65	04/26/21	4.00	40.25	28.01	5.94	33.95	6,918.88	6923.63	17 - 37	Chinle/Alluvial Interface
OW-65	05/20/21	4.00	39.50	28.16	7.01	35.17	6,917.66	6923.27	17 - 37	Chinle/Alluvial Interface
OW-65	06/02/21	4.00	39.50	26.91	5.75	32.66	6,920.17	6924.77	17 - 37	Chinle/Alluvial Interface

TABLE 2B. FLUID LEVEL MEASUREMENTS FOR NON MKTF WELLS
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground water Elevation (ft)	Corrected Water Table [1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
RW-1	11/01/19	4.00	NM	NM	NA	NM	NA	NA	25 - 40	Chinle/Alluvial Interface
RW-1	09/19/20	4.00	43.45	28.07	2.13	30.20	6,915.86	6,917.56	25 - 40	Chinle/Alluvial Interface
RW-1	11/10/20	4.00	43.45	29.50	0.83	30.33	6,915.73	6,916.39	25 - 40	Chinle/Alluvial Interface
RW-1	12/08/20	4.00	43.45	29.50	0.83	30.33	6,915.73	6,916.39	25 - 40	Chinle/Alluvial Interface
RW-1	01/28/21	4.00	43.45	29.98	0.35	30.33	6,915.73	6,916.01	25 - 40	Chinle/Alluvial Interface
RW-1	02/27/21	4.00	43.45	29.75	1.30	31.05	6,915.01	6,916.05	25 - 40	Chinle/Alluvial Interface
RW-1	03/31/21	4.00	43.45	29.90	2.11	32.01	6,914.05	6,915.74	25 - 40	Chinle/Alluvial Interface
RW-1	04/26/21	4.00	43.45	29.81	2.08	31.89	6,914.17	6,915.83	25 - 40	Chinle/Alluvial Interface
RW-1	05/20/21	4.00	43.45	30.05	3.18	33.23	6,912.83	6,915.37	25 - 40	Chinle/Alluvial Interface
RW-1	06/01/21	4.00	43.45	30.33	3.09	33.42	6,912.64	6,915.11	25 - 40	Chinle/Alluvial Interface

TABLE 2B. FLUID LEVEL MEASUREMENTS FOR NON MKTF WELLS
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground water Elevation (ft)	Corrected Water Table [1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
RW-2	11/01/19	4.00	NM	NM	NA	NM	NA	NA	26.1 - 36.1	Chinle/Alluvial Interface
RW-2	09/19/20	4.00	40.00	22.10	0.13	22.23	6,906.30	6,906.40	26.1 - 36.1	Chinle/Alluvial Interface
RW-2	11/09/20	4.00	40.00	22.09	0.19	22.28	6,906.25	6,906.40	26.1 - 36.1	Chinle/Alluvial Interface
RW-2	12/08/20	4.00	40.00	22.20	0.18	22.38	6,906.15	6,906.29	26.1 - 36.1	Chinle/Alluvial Interface
RW-2	01/28/21	4.00	40.00	ND	NA	22.40	6,906.13	NA	26.1 - 36.1	Chinle/Alluvial Interface
RW-2	02/27/21	4.00	40.00	22.40	0.05	22.45	6,906.08	6,906.12	26.1 - 36.1	Chinle/Alluvial Interface
RW-2	03/31/21	4.00	40.00	22.70	0.15	22.85	6,905.68	6,905.80	26.1 - 36.1	Chinle/Alluvial Interface
RW-2	04/26/21	4.00	40.00	23.05	0.14	23.19	6,905.34	6,905.45	26.1 - 36.1	Chinle/Alluvial Interface
RW-2	05/20/21	4.00	40.00	23.77	0.09	23.86	6,904.67	6,904.74	26.1 - 36.1	Chinle/Alluvial Interface
RW-2	06/01/21	4.00	40.00	23.80	0.06	23.86	6,904.67	6,904.72	26.1 - 36.1	Chinle/Alluvial Interface

TABLE 2B. FLUID LEVEL MEASUREMENTS FOR NON MKTF WELLS
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground water Elevation (ft)	Corrected Water Table [1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
RW-5	11/01/19	4.00	NM	NM	NA	NM	NA	NA	29.5 - 39.5	Chinle/Alluvial Interface
RW-5	09/19/20	4.00	39.51	29.59	3.22	32.81	6,910.76	6,913.34	29.5 - 39.5	Chinle/Alluvial Interface
RW-5	11/09/20	4.00	39.51	29.86	3.17	33.03	6,910.54	6,913.08	29.5 - 39.5	Chinle/Alluvial Interface
RW-5	12/08/20	4.00	39.51	33.15	6.36	39.51	6,904.06	6,909.15	29.5 - 39.5	Chinle/Alluvial Interface
RW-5	01/28/21	4.00	39.51	32.42	1.56	33.98	6,909.59	6,910.84	29.5 - 39.5	Chinle/Alluvial Interface
RW-5	02/27/21	4.00	39.51	31.02	0.63	31.65	6,911.92	6,912.42	29.5 - 39.5	Chinle/Alluvial Interface
RW-5	03/31/21	4.00	39.51	30.10	1.49	31.59	6,911.98	6,913.17	29.5 - 39.5	Chinle/Alluvial Interface
RW-5	04/26/21	4.00	39.51	30.43	1.33	31.76	6,911.81	6,912.87	29.5 - 39.5	Chinle/Alluvial Interface
RW-5	05/20/21	4.00	39.51	30.76	0.14	30.90	6,912.67	6,912.78	29.5 - 39.5	Chinle/Alluvial Interface
RW-5	06/01/21	4.00	39.51	31.20	0.66	31.86	6,911.71	6,912.24	29.5 - 39.5	Chinle/Alluvial Interface

TABLE 2B. FLUID LEVEL MEASUREMENTS FOR NON MKTF WELLS
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground water Elevation (ft)	Corrected Water Table [1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
RW-6	09/19/20	4.00	40.85	29.72	2.92	32.64	6,911.37	6,913.71	28.5 - 38.5	Chinle/Alluvial Interface
RW-6	11/09/20	4.00	40.85	29.98	3.07	33.05	6,910.96	6,913.42	28.5 - 38.5	Chinle/Alluvial Interface
RW-6	12/08/20	4.00	40.85	30.18	3.13	33.31	6,910.70	6,913.20	28.5 - 38.5	Chinle/Alluvial Interface
RW-6	01/28/21	4.00	40.85	30.22	2.90	33.12	6,910.89	6,913.21	28.5 - 38.5	Chinle/Alluvial Interface
RW-6	02/27/21	4.00	40.85	30.45	3.23	33.68	6,910.33	6,912.91	28.5 - 38.5	Chinle/Alluvial Interface
RW-6	03/31/21	4.00	40.85	31.60	0.10	31.70	6,912.31	6,912.39	28.5 - 38.5	Chinle/Alluvial Interface
RW-6	04/26/21	4.00	40.85	31.58	0.03	31.61	6,912.40	6,912.42	28.5 - 38.5	Chinle/Alluvial Interface
RW-6	05/20/21	4.00	40.85	31.61	0.03	31.64	6,912.37	6,912.39	28.5 - 38.5	Chinle/Alluvial Interface
RW-6	06/01/21	4.00	40.85	32.11	0.13	32.24	6,911.77	6,911.87	28.5 - 38.5	Chinle/Alluvial Interface

TABLE 2B. FLUID LEVEL MEASUREMENTS FOR NON MKTF WELLS
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground water Elevation (ft)	Corrected Water Table [1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
STP1-NW	10/22/19	2.00	50.00	ND	NA	20.76	6,883.71	NA	20 - 50	Chinle/Alluvial Interface
STP1-NW	12/08/20	2.00	50.28	ND	NA	20.78	6,883.69	NA	20 - 50	Chinle/Alluvial Interface
STP1-NW	01/28/21	2.00	50.56	ND	NA	20.76	6,883.71	NA	20 - 50	Chinle/Alluvial Interface
STP1-NW	02/28/21	2.00	49.85	ND	NA	20.60	6,883.87	NA	20 - 50	Chinle/Alluvial Interface
STP1-NW	03/31/21	2.00	49.85	ND	NA	21.95	6,882.52	NA	20 - 50	Chinle/Alluvial Interface
STP1-NW	04/26/21	2.00	48.43	ND	NA	20.81	6,883.66	NA	20 - 50	Chinle/Alluvial Interface
STP1-NW	05/20/21	2.00	47.72	ND	NA	22.19	6,882.28	NA	20 - 50	Chinle/Alluvial Interface
STP1-NW	06/03/21	2.00	47.72	ND	NA	22.16	6,882.31	NA	20 - 50	Chinle/Alluvial Interface

TABLE 2B. FLUID LEVEL MEASUREMENTS FOR NON MKTF WELLS
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground water Elevation (ft)	Corrected Water Table [1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
STP1-SW	10/22/19	2.00	NM	NM	NA	NM	NA	NA	15 - 30	Chinle/Alluvial Interface
STP1-SW	12/08/20	2.00	29.25	ND	NA	29.23	6,883.15	NA	15 - 30	Chinle/Alluvial Interface
STP1-SW	02/28/21	2.00	29.15	29.10	0.02	29.12	6,883.26	6,883.28	15 - 30	Chinle/Alluvial Interface
STP1-SW	03/31/21	2.00	29.15	29.10	0.05	29.15	6,883.23	6,883.27	15 - 30	Chinle/Alluvial Interface
STP1-SW	04/26/21	2.00	29.16	ND	NA	28.96	6,883.42	NA	15 - 30	Chinle/Alluvial Interface
STP1-SW	05/22/21	2.00	29.16	ND	NA	29.70	6,882.68	NA	15 - 30	Chinle/Alluvial Interface
STP1-SW	06/03/21	2.00	29.16	ND	NA	28.97	6,883.41	NA	15 - 30	Chinle/Alluvial Interface

Notes:

[1] = Corrected water table elevation calculation = (SPH thickness x 0.8) + ground water elevation
ft = feet
SPH = separate phase hydrocarbon
NA = Not Applicable
ND = Not detected
Depth to Water Column - if 0.00 is indicated - means water is at top of casing (full) under artesian flow conditions
Dry indicates no fluid was detected

TABLE 3A. APRIL VACUUM TRUCK EXTRACTIONS - MKTF WELLS
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Location	Date	DTP (ft)	DTW (ft)	Recovery Method	Product Thickness (ft)	Volume/Foot (gal)	Total Fluids Pumped/ Recovered (gal)	Water Volume Recovered (gal)	Product Volume Recovered (gal)	Total Depth (ft)	Casing Diameter (in)	Comments
MKTF-5	4/21/2021	14.93	15.01	Vac Truck	0.08	0.74	2.15	2.09	0.06	17.83	4	
MKTF-5	4/22/2021	14.94	15.00	Post Recovery	0.06							
MKTF-6	4/21/2021	18.07	18.50	Vac Truck	0.43	0.74	4.23	3.91	0.32	23.79	4	
MKTF-6	4/22/2021	18.13	18.42	Post Recovery	0.29							
MKTF-7	4/21/2021	13.13	13.27	Vac Truck	0.14	0.74	3.18	3.08	0.10	17.43	4	
MKTF-7	4/22/2021	13.15	13.21	Post Recovery	0.06							
MKTF-8	4/21/2021	14.46	14.63	Vac Truck	0.17	0.74	5.58	5.45	0.13	22.00	4	
MKTF-8	4/22/2021	14.54	14.64	Post Recovery	0.10							
MKTF-13	4/21/2021	13.02	16.78	Vac Truck	3.76	0.74	6.74	3.96	2.78	22.13	4	
MKTF-13	4/22/2021	13.45	15.63	Post Recovery	2.18							
MKTF-14	4/21/2021	6.87	7.01	Vac Truck	0.14	0.74	7.73	7.63	0.10	17.32	4	
MKTF-14	4/22/2021	7.03	7.04	Post Recovery	0.01							
MKTF-17	4/21/2021	11.90	11.92	Vac Truck	0.02	0.16	2.08	2.08	0.00	24.67	2	
MKTF-17	4/22/2021	11.92	11.93	Post Recovery	0.01							
MKTF-20	4/21/2021	8.90	NA	Vac Truck	0.72	0.74	0.53	0.00	0.53	9.62	4	No Water, only SPH in well
MKTF-20	4/22/2021	9.40	NA	Post Recovery	0.22							No Water, only SPH in well
MKTF-22	4/21/2021	25.42	27.33	Vac Truck	1.91	0.16	1.58	1.26	0.31	35.09	2	
MKTF-22	4/22/2021	25.57	27.00	Post Recovery	1.43							
MKTF-26	4/21/2021	8.81	8.92	Vac Truck	0.11	0.16	1.32	1.30	0.02	16.89	2	
MKTF-26	4/22/2021	12.75	12.89	Post Recovery	0.14							
MKTF-33	4/21/2021	23.08	23.45	Vac Truck	0.37	0.16	1.64	1.58	0.06	33.15	2	
MKTF-33	4/22/2021	23.11	23.34	Post Recovery	0.23							
MKTF-39	4/21/2021	9.44	10.30	Vac Truck	0.86	0.74	15.39	14.76	0.64	30.24	4	
MKTF-39	4/22/2021	7.51	10.50	Post Recovery	2.99							
MKTF-45	4/21/2021	13.54	13.58	Vac Truck	0.04	0.74	12.36	12.33	0.03	30.24	4	
MKTF-45	4/22/2021	13.61	13.63	Post Recovery	0.02							
						Total Extracted (gal)	**64.51**	**59.43**	**5.08**			

NOTES:
DTP = Depth to product
DTW = Depth to water
ft = feet
gal = gallons
in = inches

TABLE 3B. APRIL VACUUM TRUCK EXTRACTIONS - TANK FARM WELLS
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Location	Date	DTP (ft)	DTW (ft)	Recovery Method	Product Thickness (ft)	Volume/ Foot (gal)	Total Fluids Pumped/ Recovered (gal)	Water Volume Recovered (gal)	Product Volume Recovered (gal)	Total Depth (ft)	Casing Diameter (in)	Comments
OW-61	4/22/2021	19.11	20.59	Vac Truck	1.48	0.74	6.58	5.48	1.10	28.0	4	
OW-61	4/23/2021	19.38	19.68	Post Recovery	0.30							
OW-65	4/22/2021	27.19	34.43	Vac Truck	7.24	0.74	7.26	1.90	5.36	37.0	4	
OW-65	4/23/2021	27.28	34.18	Post Recovery	6.90							
RW-1	4/22/2021	29.41	30.27	Vac Truck	0.86	0.74	10.09	9.45	0.64	43.0	4	
RW-1	4/23/2021	30.40	30.53	Post Recovery	0.13							
RW-2	4/22/2021	NA	22.60	Vac Truck	0.00	0.74	12.73	12.73	0.00	39.8	4	No SPH detected
RW-2	4/23/2021	NA	22.71	Post Recovery	0.00							No SPH detected
RW-5	4/22/2021	30.11	31.12	Vac Truck	1.01	0.74	7.02	6.27	0.75	39.6	4	
RW-5	4/23/2021	31.00	32.60	Post Recovery	1.60							
RW-6	4/22/2021	30.16	31.11	Vac Truck	0.95	0.74	7.95	7.24	0.70	40.9	4	
RW-6	4/23/2021	31.50	31.55	Post Recovery	0.05							
						Total Extracted (gal)	**38.89**	**30.35**	**8.54**			

NOTES:
DTP = Depth to product
DTW = Depth to water
ft = feet
gal = gallons
in = inches
Vac = Vacuum

TABLE 3C. MAY VACUUM TRUCK EXTRACTIONS - MKTF WELLS
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Location	Date	DTP (ft)	DTW (ft)	Recovery Method	Product Thickness (ft)	Volume/Foot (gal)	Total Fluids Pumped/ Recovered (gal)	Water Volume Recovered (gal)	Product Volume Recovered (gal)	Total Depth (ft)	Casing Diameter (in)	Comments
MKTF-5	5/3/2021	15.01	15.08	Vac Truck	0.07	0.74	2.09	2.04	0.05	17.83	4	
MKTF-5	5/4/2021	15.10	15.13	Post Recovery	0.03							
MKTF-6	5/3/2021	18.18	18.59	Vac Truck	0.41	0.74	4.15	3.85	0.30	23.79	4	
MKTF-6	5/4/2021	18.31	18.53	Post Recovery	0.22							
MKTF-7	5/3/2021	13.14	13.22	Vac Truck	0.08	0.74	3.17	3.12	0.06	17.43	4	
MKTF-7	5/4/2021	13.41	13.46	Post Recovery	0.05							
MKTF-8	5/3/2021	14.55	14.72	Vac Truck	0.17	0.74	5.51	5.39	0.13	22.00	4	
MKTF-8	5/4/2021	14.70	14.82	Post Recovery	0.12							
MKTF-13	5/3/2021	13.34	16.47	Vac Truck	3.13	0.74	6.50	4.19	2.32	22.13	4	
MKTF-13	5/4/2021	13.70	15.36	Post Recovery	1.66							
MKTF-14	5/3/2021	7.10	7.12	Vac Truck	0.02	0.74	7.56	7.55	0.01	17.32	4	
MKTF-14	5/4/2021	7.10	7.45	Post Recovery	0.35							
MKTF-17	5/3/2021	NA	12.06	Vac Truck	0.00	0.16	2.06	2.06	0.00	24.67	2	No SPH detected
MKTF-17	5/4/2021	NA	15.52	Post Recovery	0.00							No SPH detected
MKTF-20	5/3/2021	9.27	NA	Vac Truck	0.35	0.74	0.26	0.00	0.26	9.62	4	No Water, only SPH in well
MKTF-20	5/4/2021	9.41	NA	Post Recovery	0.21							No Water, only SPH in well
MKTF-22	5/3/2021	25.50	27.43	Vac Truck	1.93	0.16	1.56	1.25	0.31	35.09	2	
MKTF-22	5/4/2021	25.54	27.45	Post Recovery	1.91							
MKTF-26	5/4/2021	9.02	9.14	Vac Truck	0.12	0.16	1.28	1.26	0.02	16.89	2	
MKTF-26	5/5/2021	9.04	9.14	Post Recovery	0.10							
MKTF-33	5/3/2021	23.14	23.37	Vac Truck	0.23	0.16	1.63	1.59	0.04	33.15	2	
MKTF-33	5/4/2021	23.22	23.42	Post Recovery	0.20							
MKTF-39	5/3/2021	9.67	10.35	Vac Truck	0.68	0.74	15.22	14.72	0.50	30.24	4	
MKTF-39	5/4/2021	9.72	10.52	Post Recovery	0.80							
MKTF-45	5/3/2021	13.65	13.67	Vac Truck	0.02	0.74	12.28	12.26	0.01	30.24	4	
MKTF-45	5/4/2021	14.85	14.86	Post Recovery	0.01							
						Total Extracted (gal)	**63.28**	**59.26**	**4.02**			

NOTES:
DTP = Depth to product
DTW = Depth to water
ft = feet
gal = gallons
in = inches
Vac = Vacuum

TABLE 3D. MAY VACUUM TRUCK EXTRACTIONS - TANK FARM WELLS
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Location	Date	DTP (ft)	DTW (ft)	Recovery Method	Product Thickness (ft)	Volume/ Foot (gal)	Total Fluids Pumped/ Recovered (gal)	Water Volume Recovered (gal)	Product Volume Recovered (gal)	Total Depth (ft)	Casing Diameter (in)	Comments
OW-61	5/4/2021	19.39	21.01	Vac Truck	1.62	0.74	6.37	5.17	1.20	28.0	4	
OW-61	5/5/2021	20.21	21.87	Post Recovery	1.66							
OW-65	5/4/2021	27.72	34.10	Vac Truck	6.38	0.74	6.87	2.15	4.72	37.0	4	
OW-65	5/5/2021	27.63	35.67	Post Recovery	8.04							
RW-1	5/4/2021	29.59	30.38	Vac Truck	0.79	0.74	9.95	9.37	0.58	43.0	4	
RW-1	5/5/2021	28.55	30.16	Post Recovery	1.61							
RW-2	5/4/2021	NA	23.51	Vac Truck	0.00	0.74	12.05	12.05	0.00	39.8	4	No SPH detected
RW-2	5/5/2021	NA	24.55	Post Recovery	0.00							No SPH detected
RW-5	5/4/2021	30.02	32.23	Vac Truck	2.21	0.74	7.08	5.45	1.64	39.6	4	
RW-5	5/5/2021	28.67	30.17	Post Recovery	1.50							
RW-6	5/4/2021	30.59	31.00	Vac Truck	0.41	0.74	7.63	7.33	0.30	40.9	4	
RW-6	5/5/2021	31.11	32.10	Post Recovery	0.99							
						Total Extracted (gal)	**37.90**	**29.46**	**8.44**			

NOTES:
DTP = Depth to product
DTW = Depth to water
ft = feet
gal = gallons
in = inches
Vac = Vacuum

TABLE 3E. JUNE VACUUM TRUCK EXTRACTIONS - MKTF WELLS
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Location	Date	DTP (ft)	DTW (ft)	Recovery Method	Product Thickness (ft)	Volume/Foot (gal)	Total Fluids Pumped/ Recovered (gal)	Water Volume Recovered (gal)	Product Volume Recovered (gal)	Total Depth (ft)	Casing Diameter (in)	Comments
MKTF-5	6/1/2021	15.29	15.38	Vac Truck	0.09	0.74	1.88	1.81	0.067	17.83	4	
MKTF-5	6/2/2021	15.41	15.42	Post Recovery	0.01							
MKTF-6	6/1/2021	18.43	18.91	Vac Truck	0.48	0.74	3.97	3.61	0.355	23.79	4	
MKTF-6	6/2/2021	18.11	18.22	Post Recovery	0.11							
MKTF-7	6/1/2021	13.41	13.53	Vac Truck	0.12	0.74	2.97	2.89	0.089	17.43	4	
MKTF-7	6/2/2021	13.43	13.50	Post Recovery	0.07							
MKTF-8	6/1/2021	14.81	15.24	Vac Truck	0.43	0.74	5.32	5.00	0.318	22.00	4	
MKTF-8	6/2/2021	15.08	15.31	Post Recovery	0.23							
MKTF-13	6/1/2021	13.59	17.14	Vac Truck	3.55	0.74	6.32	3.69	2.627	22.13	4	
MKTF-13	6/2/2021	15.12	17.18	Post Recovery	2.06							
MKTF-14	6/1/2021	7.35	7.75	Vac Truck	0.40	0.74	7.38	7.08	0.296	17.32	4	
MKTF-14	6/2/2021	7.46	7.85	Post Recovery	0.39							
MKTF-17	6/7/2021	NA	12.37	Vac Truck	0.00	0.16	2.00	2.00	0.000	24.67	2	No SPH detected
MKTF-17	6/8/2021	13.95	13.96	Post Recovery	0.01							
MKTF-20	6/7/2021	NA	8.95	Vac Truck	0.00	0.74	0.50	0.50	0.000	9.62	4	No SPH detected
MKTF-20	6/8/2021	NA	9.10	Post Recovery	0.00							No SPH detected
MKTF-22	6/7/2021	25.50	28.02	Vac Truck	2.52	0.16	1.56	1.15	0.411	35.09	2	
MKTF-22	6/8/2021	26.59	27.78	Post Recovery	1.19							
MKTF-26	6/7/2021	9.10	9.19	Vac Truck	0.09	0.16	1.27	1.26	0.015	16.89	2	
MKTF-26	6/8/2021	8.47	8.49	Post Recovery	0.02							
MKTF-33	6/7/2021	23.37	23.62	Vac Truck	0.25	0.16	1.59	1.55	0.041	33.15	2	
MKTF-33	6/8/2021	24.33	24.77	Post Recovery	0.44	0.16	1.44	1.37	0.072	33.15	2	
MKTF-39	6/1/2021	9.98	11.18	Vac Truck	1.20	0.16	3.30	3.11	0.196	30.24	2	
MKTF-39	6/2/2021	10.89	11.09	Post Recovery	0.20	0.16	3.15	3.12	0.033	30.24	2	
MKTF-45	6/1/2021	14.19	14.20	Vac Truck	0.01	0.74	11.88	11.87	0.007	30.24	4	
MKTF-45	6/2/2021	15.01	15.02	Post Recovery	0.01	0.74	11.27	11.26	0.007	30.24	4	
						Total Extracted (gal)	**49.95**	**45.52**	**4.421**			

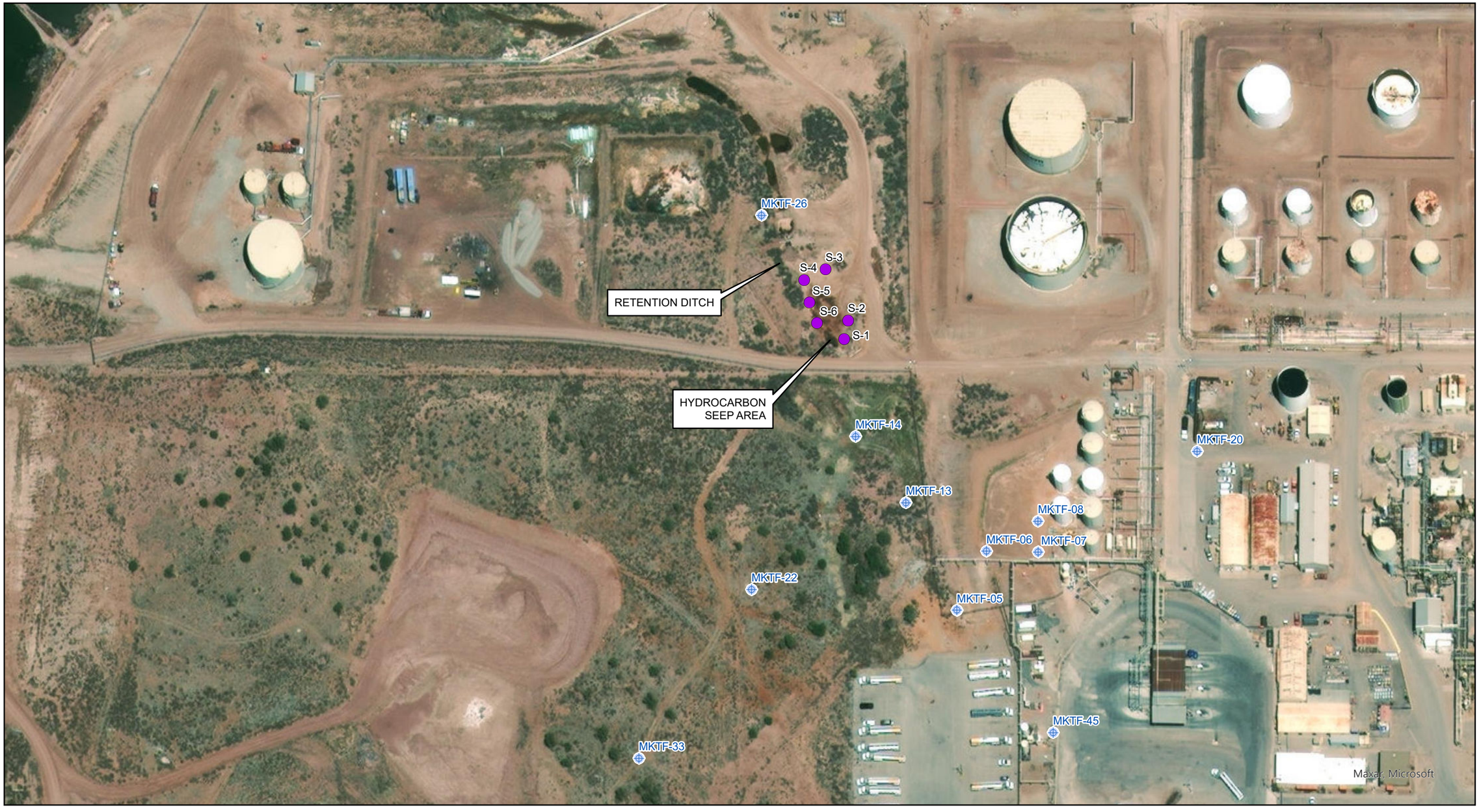
NOTES:
DTP = Depth to product
DTW = Depth to water
ft = feet
gal = gallons
in = inches
Vac = Vacuum

TABLE 3F. JUNE VACUUM TRUCK EXTRACTIONS - TANK FARM WELLS
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Location	Date	DTP (ft)	DTW (ft)	Recovery Method	Product Thickness (ft)	Volume/ Foot (gal.)	Total Fluids Pumped/ Recovered (gal)	Water Volume Recovered (gal)	Product Volume Recovered (gal)	Total Depth (ft)	Casing Diameter (in)	Comments
OW-61	6/2/2021	19.03	23	Vac Truck	3.97	0.74	6.64	3.70	2.94	28.0	4	
OW-61	6/3/2021	21.97	22.48	Post Recovery	0.51							
OW-65	6/2/2021	27.8	34	Vac Truck	6.20	0.74	6.81	2.22	4.59	37.0	4	
OW-65	6/3/2021	28.87	33.89	Post Recovery	5.02							
RW-1	6/2/2021	30.42	31.2	Vac Truck	0.78	0.74	9.34	8.76	0.58	43.0	4	
RW-1	6/3/2021	30.55	30.98	Post Recovery	0.43							
RW-2	6/2/2021	NA	23.8	Vac Truck	0.00	0.74	11.84	11.84	0.00	39.8	4	No SPH detected
RW-2	6/3/2021	NA	24.12	Post Recovery	0.00							No SPH detected
RW-5	6/2/2021	30.01	32.47	Vac Truck	2.46	0.74	7.09	5.27	1.82	39.6	4	
RW-5	6/3/2021	31.05	33.88	Post Recovery	2.83							
RW-6	6/2/2021	30.24	31.97	Vac Truck	1.73	0.74	7.89	6.61	1.28	40.9	4	
RW-6	6/3/2021	29.61	31.12	Post Recovery	1.51							
						Total Extracted (gal)	**37.76**	**26.56**	**11.20**			

NOTES:
DTP = Depth to product
DTW = Depth to water
ft = feet
gal = gallons
in = inches
Vac = Vacuum

FIGURES



EXPLANATION

- HYDROCARBON SEEP SUMPS
- MONITORING WELLS WITH ONGOING SPH EXTRACTIONS

N

0 140'

Trihydro CORPORATION
1252 Commerce Drive
Laramie, WY 82070
www.trihydro.com
(P) 307/745.7474 (F) 307/745.7729

FIGURE 1

HYDROCARBON SEEP AREA

WESTERN REFINING SOUTHWEST, LLC
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Drawn By: KEJ	Checked By: BM	Scale: 1" = 140'	Date: 7/26/21	File: 1_HydrocarbonSeepArea_Fig1

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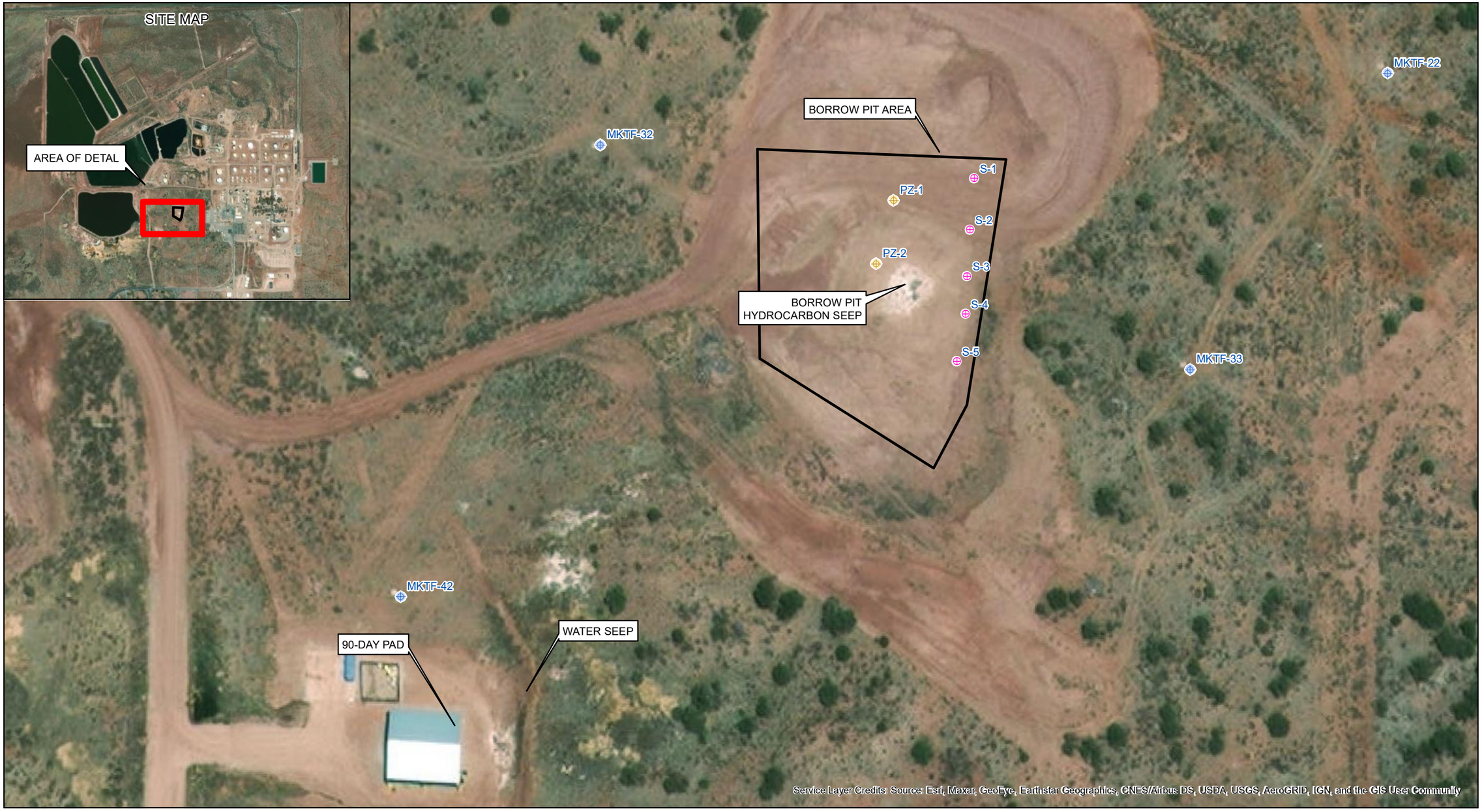


EXPLANATION

- LOCATION OF SUMP
- PIEZOMETER LOCATION
- MONITORING WELL
- SITE FEATURE

N

0 80'

Trihydro CORPORATION
1252 Commerce Drive
Laramie, WY 82070
www.trihydro.com
(P) 307/745.7474 (F) 307/745.7729

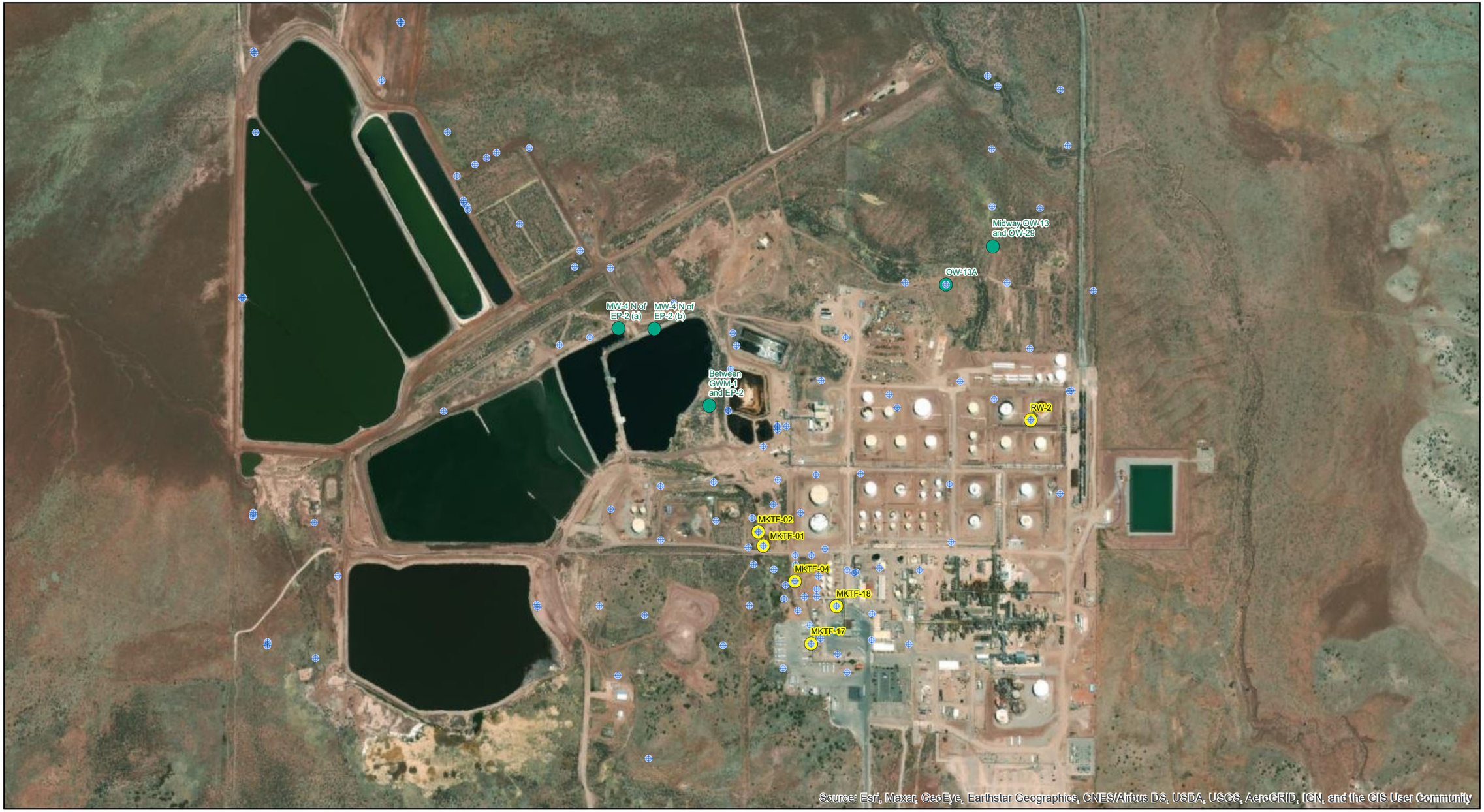
FIGURE 2

BORROW PIT SUMPS

WESTERN REFINING SOUTHWEST, LLC
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Drawn By: KEJ	Checked By: MS	Scale: 1 " = 80 '	Date: 7/26/21	File: 2_SumpPiez_BorrowPit_Fig2.mxd

\\TRIHYDRO.COM\CLIENTS\ITON\MARATHON\GIS\PROJECTS\GALLUP\REFINERY\PM\COSTESTIMATES\2021\202102_ADDNL WELL INSTALL\2_SUMPPIEZ_BORROWPIT_FIG2.MXD



EXPLANATION

- EXISTING MONITORING WELL LOCATION
- PROPOSED REPLACEMENT OF EXISTING MONITORING WELL LOCATION
- PROPOSED NEW MONITORING WELL

N

0 600'

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1252 Commerce Drive
Laramie, WY 82070
www.trihydro.com
(P) 307/745.7474 (F) 307/745.7729

FIGURE 3

PROPOSED WELL LOCATIONS

WESTERN REFINING SOUTHWEST, LLC
MARATHON GALLUP REFINERY
GALLUP, NEW MEXICO

Drawn By: KEJ	Checked By: CF	Scale: 1 " = 600 '	Date: 7/26/21	File: 3_Addnl_Well_Install2021_Fig3.mxd

\\TRIHYDRO.COM\CLIENTS\TONMARATHON\GIS\PROJECTS\GALLUPREFINERY\PM\COSTESTIMATES\2021\2021Q2 ADDNL WELL INSTALLS\ADDNL WELL INSTALL2021_FIG3.MXD

ATTACHMENT A

New Mexico Environment Department to Marathon Gallup Refinery Comment Letter "Approval with Modifications Hydrocarbon Seep Interim Measures 2021 First Quarter Status Report" (July 6, 2021)

New Mexico Environment Department (NMED) Comment	Marathon Gallup Refinery Response
Comment 1:	**Response 1:**
In the *Activities conducted during first quarter 2021*, paragraph 1, page 1, the Permittee states, "[i]n general, the MKTF wells directly south of the hydrocarbon seep area showed an increase in water level[s] when compared to the fourth quarter of 2020. MKTF had the greatest increase of 0.8 feet (ft)." According to Table 2A, *Fluid Level Measurements for Wells MKTF-1 through MKTF-50*, page 6 of 18, the depth to water readings collected from well MKTF-14 in December 2020 and March 2021 are recorded as 7.06 and 6.26 feet, respectively. The groundwater level increased 0.8 feet in the well, as stated. Well MKTF-14 is also located directly south of the hydrocarbon seep area. In contrast, the depth to water readings collected from well MKTF-4 were fluctuating and the well is located southeast of the hydrocarbon seep area. Well MKFT-4 does not appear to match the description. Correct the typographical error in the 2021 second quarter status report, as appropriate.	The comment is acknowledged. In future reports, MKTF-4 will be referred to as southeast of the hydrocarbon seep area.
Comment 2:	**Response 2:**
In the *Activities conducted during first quarter 2021*, paragraph 2, page 1, the Permittee states, "Marathon Petroleum Company (MPC) is continuing to evaluate the reason for increased water levels and will submit a letter with the findings of the evaluation to NMED following completion. In addition, MPC is currently evaluating PW-3 to determine if potable water is being lost through casing leaks. A memorandum detailing the findings of the PW-3 evaluation will be submitted during the third quarter of 2021." In Attachment B, the Permittee's response to Comment 1 of the NMED's *Approval with Modifications*, dated March 30, 2021, also states that the changes in water levels could be a result of the domestic and fire water system operation. The referenced memorandum must be submitted for NMED's review no later than September 30, 2021, as stated. No response required.	The comment is acknowledged. A memorandum detailing the findings of the PW-3 evaluation will be submitted to NMED by September 30, 2021.

New Mexico Environment Department to Marathon Gallup Refinery Comment Letter "Approval with Modifications Hydrocarbon Seep Interim Measures 2021 First Quarter Status Report" (July 6, 2021)

Comment 3:	**Response 3:**
In the *Activities conducted during first quarter 2021*, paragraph 1, page 2, the Permittee states, "[a]dditional Laser Induced Fluorescence (LIF) investigations have also been completed in the area delineating the gasoline release and were submitted in the Marketing Tank Farm Laser-Induced Fluorescence/Hydraulic Profiling Investigation report submitted on April 1, 2021." Comment 5 of the NMED's *Disapproval Marketing Tank Farm Laser-induced Fluorescence/Hydraulic Profiling Investigation Report*, dated June 2, 2021, states, "the water seep location must also be visually monitored on a monthly basis for potential breakthrough. Propose to monitor the seep and report the monitoring results in the future quarterly hydrocarbon seep interim measures status reports." Report the monitoring results in the future status reports accordingly.	Monitoring of the water seep area began in June 2021 and will continue on a monthly basis. The June results have been included in the 2nd Quarter Hydrocarbon Seep report and states, "The water seep was inspected June 22, 2021 and was found to be dry with no evidence of separate phase hydrocarbon."
Comment 4:	**Response 4:**
In Attachment B, the Permittee's response to Comment 5 of the NMED's *Approval with Modifications*, dated March 30, 2021, states, "[a] interim measure report summarizing these activities will be submitted no later than July 30, 2021." Comment 37 of the NMED's Disapproval Marketing Tank Farm Laser-induced Fluorescence/Hydraulic Profiling Investigation Report, dated June 2, 2021, states, "[t]he interim measure work plan required by Comment 5 of the NMED's March 30, 2021 *Approval with Modifications* is no longer necessary because of the recommendations provided in the Report. However, when the remediation system is implemented, its effectiveness must be evaluated and reported to the NMED. Submit an interim measures report that summarizes the monitoring data collected and the effectiveness of the remediation system no later than December 31, 2021. Accordingly, the work plan is no longer required to be submitted.	The comment is acknowledged. An interim measures report that summarizes the monitoring data collected and the effectiveness of the borrow pit remediation system will be submitted no later than December 31, 2021. No work plan will be submitted for the borrow pit sump installation.

New Mexico Environment Department to Marathon Gallup Refinery Comment Letter "Approval with Modifications Hydrocarbon Seep Interim Measures 2021 First Quarter Status Report" (July 6, 2021)

Comment 5:	**Response 5:**
In Attachment B, the Permittee's response to Comment 6 of the NMED's *Approval with Modifications*, dated March 30, 2021, states, "[a] response letter was submitted to NMED on April 14, 2021 in regard to the Investigation Work Plan for Area of Concern 35 that did not include the updated proposed location for [the] monitoring well addressed in this comment. The monitoring well will be relocated west of the borrow pit seep area to support in delineating the SPH plume and the revised location is shown on Figure 1." The location of the proposed well is not shown on Figure 1 of this Report. In addition, the Permittee submitted the *[Response to] Approval with Modifications Response to Disapproval Investigation Work Plan No. 2 Area of - Concern 35*, dated April 6, 2021; however, the document did not include a figure depicting the proposed well location. Provide a clarification in the 2021 second quarter status report. Regardless, the monitoring well proposed to be installed west of the borrow pit seep area does not appear to be necessary based on the results of the LIF investigation because well MKTF-32 is located west of the borrow pit seep area and may serve as a sentinel well. Provide a discussion in the 2021 second quarter status report.	Figure 3, Proposed Well Locations, has been included in the 2nd Quarter Hydrocarbon Seep report. The additional monitoring well planned to be installed west of the borrow pit will not be required, and MKTF-32 will serve as a sentinel well for the Borrow Pit seep. This is discussed in the 2nd Quarter Hydrocarbon Seep report.

Western Refining Southwest LLC
A subsidiary of Marathon Petroleum Corporation
I-40 Exit 39
Jamestown, NM 87347

April 29, 2021

Mr. Kevin Pierard, Chief
New Mexico Environment Department
Hazardous Waste Bureau
2905 Rodeo Park Drive East, Building 1
Santa Fe, New Mexico 87505

RE: Hydrocarbon Seep Interim Measures 2021 First Quarter Status Report
Marathon Petroleum Corporation LP, Gallup Refinery
(dba Western Refining Southwest LLC)
EPA ID# NMD000333211

Dear Mr. Pierard,

Please find enclosed the Hydrocarbon Seep Interim Measures Status Report for the first quarter of 2021 in Attachment A. MPC has included the information requested by NMED in the *Approval with Modifications, Hydrocarbon Seep Interim Measures 2020 Fourth Quarter Status Report* in Attachment B, submitted by New Mexico Environment Department on March 30, 2021. If you have any questions or comments regarding the information contained herein, please do not hesitate to contact John Moore at (505) 879-7643.

Certification

I certify under penalty of law that this document and all attachments were prepared under my direction of supervision according to a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,
Western Refining Southwest LLC, Gallup Refinery

Robert S. Hanks
Refinery General Manager

Enclosure

cc:
D. Cobrain, NMED HWB
C. Chavez, OCD
G. McCartney, MPC
J. Moore, Gallup Refinery
M. Suzuki, NMED HWB
T. McDill, OCD
K. Luka, MPC
H. Jones, Trihydro Corporation

ATTACHMENT A

QUARTERLY STATUS REPORT
HYDROCARBON SEEP INTERIM MEASURES
MARATHON PETROLEUM COMPANY LLC – GALLUP REFINERY
(dba WESTERN REFINING SOUTHWEST LLC)
First Quarter 2021

Activities conducted during the first quarter 2021

Source Control – The refinery has remained in indefinite idle status since April 2020. Refinery resources and personnel were operating at a reduced capacity and continued to focus on tank cleaning and the transition to idle status during the first quarter. There were 13,000 gallons (gals) of water and no separate phase hydrocarbon (SPH) recovered from the standpipe sumps (S1 – S6) during the first quarter. There was no recovery from the retention ditch during this quarter because there was no standing water. The Hydrocarbon Seep area is shown on Figure 1. Standpipe and retention ditch data are presented in Table 1. In general, the MKTF wells directly south of the hydrocarbon seep area showed an increase in water level when compared to the fourth quarter of 2020. MKTF-4 had the greatest increase of 0.8 feet (ft). Fluid levels southwest of the hydrocarbon seep, near and in the Truck Loading Rack, generally decreased. The greatest decrease was in MKTF-45 (1.09 ft). All other variations in these areas were less than 1 ft. West of the Truck Loading rack, MKTF-34 decreased 1.69 ft while MKTF-33 increased 4.3 ft.

Monthly fluid levels are found in Table 2. Despite monthly fluid extraction and the idling of the refinery, fluid levels in the MKTF area have continued to rise and fall seasonally without substantial change from the months prior to the refinery being placed in idle status. Marathon Petroleum Company (MPC) is continuing to evaluate the reason for increased water levels and will submit a letter with the findings of the evaluation to NMED following completion. In addition, MPC is currently evaluating PW-3 to determine if potable water is being lost through casing leaks. A memorandum detailing the findings of the PW-3 evaluation will be submitted during the third quarter of 2021.

Fluid removal in MKTF wells upgradient of the hydrocarbon seep area, with recoverable SPH, was conducted during the first quarter of 2021 using a vacuum truck. There were a total of 159.34 gals of water and 28.79 gals of SPH extracted in the first quarter. The SPH extraction data are shown in Table 3. As requested in Comment 2 in the New Mexico Environment Department's (NMED) *Approval with Modifications Hydrocarbon Seep Interim Measures 2020 Fourth Quarter Status Report*, fluid levels will be taken 24 hours after vac truck extraction in all future events.

Pursuant to NMED's letter of March 5, 2019, the area of the seeps is routinely monitored to evaluate the discharge of hydrocarbons to the land surface where shallow water discharges within the retention ditch and to the south near the original seep location. The measurable amount of SPH discharging into the retention ditch has essentially stopped. MPC will continue to monitor the area and if substantial fluid comes back into the area it will be recovered.

- Source Identification - An Investigation Work Plan (IWP) for Area of Concern (AOC) 35, which includes the area around the Marketing Tanks and the Truck Loading Racks, was approved with modifications on September 12, 2019. However, this investigation was postponed for revision due to a gasoline leak from a transfer pipeline in the Truck Loading area found on October 27, 2019. A revised IWP No.2 for AOC 35 was submitted to NMED on February 2, 2020 to expand the investigation to include the gasoline release. NMED disapproved the revised IWP on August 31, 2020, requesting revisions to the workplan. Marathon submitted a revised workplan and addressed NMED's comments on January 4, 2021. NMED responded to Marathon's response with an Approval with Modifications on February 11, 2021. Marathon submitted a response to the approval on April 14, 2021. Additional Laser Induced Fluorescence (LIF) investigations have also been completed in the area delineating the gasoline release and were submitted in the Marketing Tank Farm Laser-Induced Fluorescence/Hydraulic Profiling Investigation report submitted on April 1, 2021.

<u>Activities planned for the second quarter 2021</u>

- Monitoring – NMED has requested that groundwater monitoring wells will be gauged monthly. Monthly monitoring began in November 2020 and will continue through 2021.

- Source Control – Marathon will continue recovery operations at the standpipe sumps and the retention ditch using a vacuum truck to pump SPH and water from each of the sumps and the downstream retention ditch (when water is present in the retention ditch). The fluid volumes in the standpipe sumps and retention ditch will continue to be monitored and recovery efforts will be adjusted as necessary. Evaluation of the area will be ongoing to determine if additional or alternative methods could be more effective in the future.

  The gasoline release discovered in October 2019 near the Truck Loading Rack is south of the hydrocarbon seep area. Fluid recovery from MKTF wells upgradient of the hydrocarbon seep area, with recoverable SPH, will be conducted monthly to reduce migration potential.

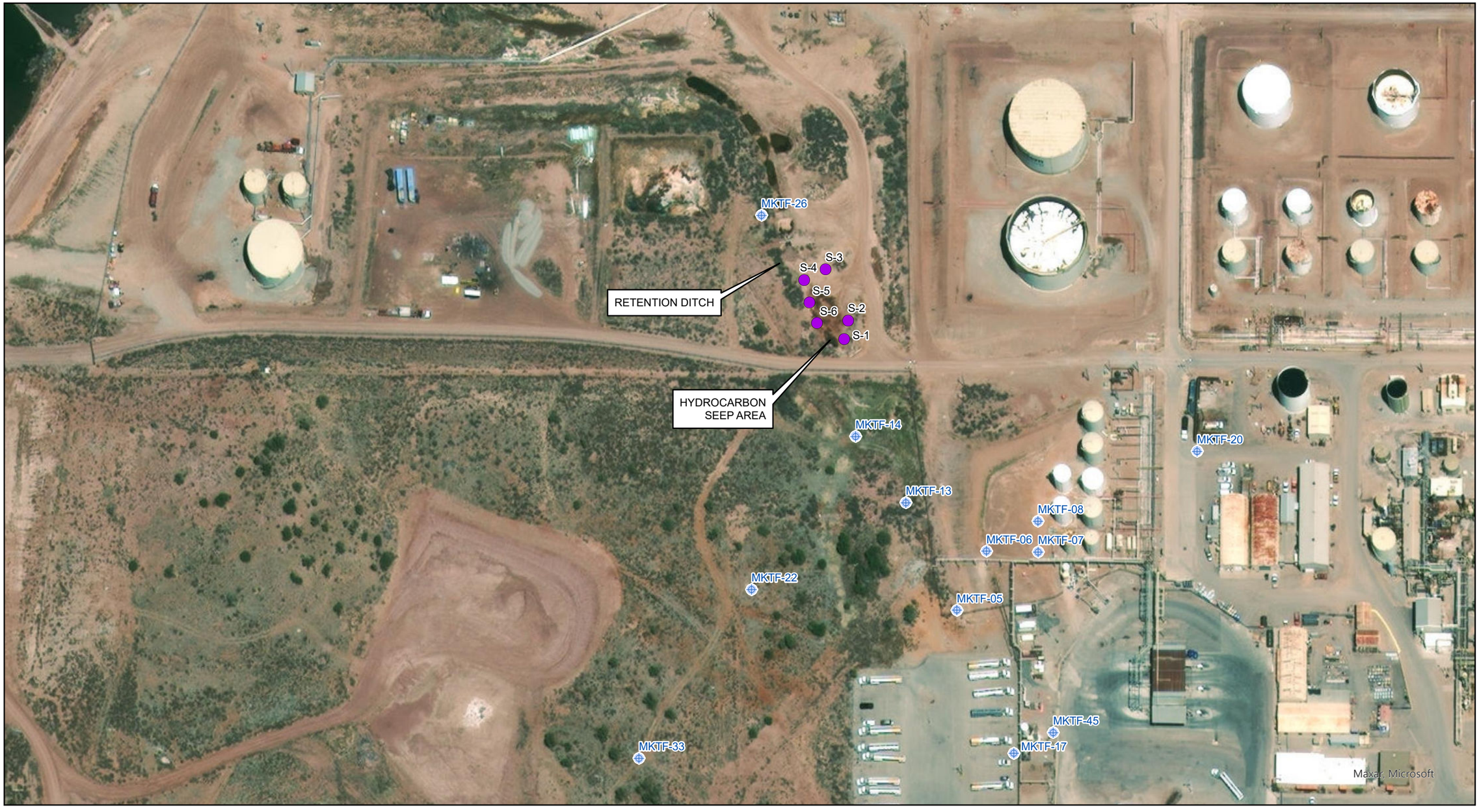
  SPH has been detected in MKTF-33. Marathon conducted the Additional Laser Induced Fluorescence (LIF) Investigation in February 2021 in an effort to further delineate SPH to the west of the Truck Loading Rack. LIF results indicated a product flow path funneling toward the seep in the borrow pit area. In April, five recovery sumps and two piezometers were installed in the borrow pit to limit product migration to the west, beyond the borrow pit. Additionally, the LIF investigation included locations along the road south of the Hydrocarbon Seep Area and south of Tank 102 to determine the extent of product migration to the north of the Truck Loading Rack. The LIF results in this area did not indicate the definitive presence of gasoline as was seen in the west. The Marketing Tank Farm Laser-Induced Fluorescence/Hydraulic Profiling Investigation report was submitted to NMED on April 1, 2021.

  An additional LIF investigation is planned for the second quarter of 2021 focusing on the eastern boundary and tank farm area. In addition, this investigation will include additional locations

west of the truck loading rack to further delineate the plume in the vicinity of the borrow pit area.

- Investigation – The Sanitary Lagoon Investigation Report was submitted to NMED on February 17, 2020, providing information on subsurface SPH distribution in this area. The portion of the investigation along the pipeline was not completed due to the gasoline leak in the area. Investigation in the area along the pipeline has been proposed in an updated work plan, submitted to NMED on March 29, 2021 and an Approval with Modifications was received from NMED on April 26, 2021. MPC will submit the response letter, and replacement pages no later than July 30, 2021.

FIGURE



EXPLANATION

- HYDROCARBON SEEP SUMPS
- MONITORING WELLS WITH ONGOING SPH EXTRACTIONS

N

0 140'

Trihydro CORPORATION
1252 Commerce Drive
Laramie, WY 82070
www.trihydro.com
(P) 307/745.7474 (F) 307/745.7729

DRAFT

FIGURE 1

HYDROCARBON SEEP AREA

MARATHON PETROLEUM COMPANY
GALLUP REFINING DIVISION
GALLUP, NEW MEXICO

Drawn By: KEJ	Checked By: BM	Scale: 1" = 140'	Date: 4/29/21	File: 1_HydrocarbonSeepArea_Fig1

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TABLES

TABLE 1A. STANDPIPE RECOVERY RECORDS
MARATHON PETROLEUM COMPANY, GALLUP REFINERY
GALLUP, NEW MEXICO

DATE	hydrocarbon recovered (gallons)	water pumped (gallons)	total fluid pumped (gallons)
2013 Totals	**2,762**	**115,935**	**118,697**
2014 Totals	**2,108**	**242,182**	**244,290**
2015 Totals	**1,071**	**188,634**	**189,707**
2016 Totals	**8,668**	**357,619**	**366,287**
2017 Totals	**4,238**	**365,712**	**369,950**
2018 Totals	**162**	**279,538**	**279,700**
2019 Totals	**-**	**158,943**	**158,943**
1st Quarter 2020 Totals	**-**	**-**	**-**
4/1/2021	-	3,000	3,000
2nd Quarter 2020 Totals	**-**	**3,000**	**3,000**
3rd Quarter 2020 Totals	**-**	**-**	**-**
12/15/2020	-	4,500	4,500
4th Quarter 2020 Totals	**-**	**4,500**	**4,500**
1/28/2021	-	4,500	4,500
2/22/2021	-	4,500	4,500
3/31/2021	-	4,000	4,000
1st Quarter 2021 Totals	**-**	**13,000**	**13,000**
Project Totals	**19,009**	**1,729,063**	**1,748,074**

TABLE 1B. RETENTION DITCH RECOVERY RECORDS
MARATHON PETROLEUM COMPANY, GALLUP REFINERY
GALLUP, NEW MEXICO

DATE	Truck Loads	Water/Oil Mixture (gallons)	Oil (gallons)
2016 Totals	**63**	**340,200**	**NR**
2017 Totals	**54**	**194,550**	**1,890**
2018 Totals	**38**	**78,780**	**1,426**
2019 Totals	**17**	**34,451**	**1,008**
1st Quarter 2020 Totals	**Dry**	**Dry**	**Dry**
2nd Quarter 2020 Totals	**Dry**	**Dry**	**Dry**
9/1/2020	1	200	2
3rd Quarter 2020 Totals	**1**	**200**	**2**
4th Quarter 2020 Totals	**Dry**	**Dry**	**Dry**
1st Quarter 2021 Totals	**Dry**	**Dry**	**Dry**

Project Totals	**173**	**648,181**	**4,326**

TABLE 2A. FLUID LEVEL MEASUREMENTS FOR WELLS MKTF-1 THROUGH MKTF-50
MARATHON PETROLEUM COMPANY, GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground-water Elevation (ft)	Corrected Water Table[1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
MKTF-01	02/19/19	4.00	17.42	4.40	0.34	4.74	6,915.93	6916.20	5 - 15	Chinle/Alluvium Interface
MKTF-01	05/06/19	4.00	17.42	4.39	0.35	4.74	6,915.93	6916.21	5 - 15	Chinle/Alluvium Interface
MKTF-01	08/30/19	4.00	17.42	4.58	0.37	4.95	6,915.72	6916.02	5 - 15	Chinle/Alluvium Interface
MKTF-01	11/19/19	4.00	17.42	5.14	0.31	5.45	6,915.22	6915.47	5 - 15	Chinle/Alluvium Interface
MKTF-01	02/24/20	4.00	17.42	4.87	0.29	5.16	6,915.51	6915.74	5 - 15	Chinle/Alluvium Interface
MKTF-01	06/26/20	4.00	17.42	5.50	0.21	5.71	6,914.96	6915.13	5 - 15	Chinle/Alluvium Interface
MKTF-01	09/15/20	4.00	17.48	5.61	0.01	5.62	6,914.96	6915.13	5 - 15	Chinle/Alluvium Interface
MKTF-01	11/10/20	4.00	17.48	5.61	0.28	5.89	6,914.96	6915.13	5 - 15	Chinle/Alluvium Interface
MKTF-01	12/03/20	4.00	17.43	5.74	0.28	6.02	6,914.96	6915.13	5 - 15	Chinle/Alluvium Interface
MKTF-01	01/28/21	4.00	17.43	7.60	0.48	8.08	6,914.96	6915.13	5 - 15	Chinle/Alluvium Interface
MKTF-01	02/28/21	4.00	17.45	5.70	0.23	5.93	6,914.96	6915.13	5 - 15	Chinle/Alluvium Interface
MKTF-01	03/31/21	4.00	17.45	6.09	0.24	6.33	6,914.96	6915.13	5 - 15	Chinle/Alluvium Interface
MKTF-02	03/28/19	4.00	20.48	ND	0.00	6.34	6,911.11	NA	7 - 17	Chinle/Alluvium Interface
MKTF-02	05/06/19	4.00	20.48	ND	0.00	6.24	6,911.21	NA	7 - 17	Chinle/Alluvium Interface
MKTF-02	08/23/19	4.00	20.43	ND	0.00	7.05	6,910.40	NA	7 - 17	Chinle/Alluvium Interface
MKTF-02	11/19/19	4.00	20.35	ND	0.00	7.14	6,910.31	NA	7 - 17	Chinle/Alluvium Interface
MKTF-02	02/24/20	4.00	20.48	ND	0.00	6.52	6,910.93	NA	7 - 17	Chinle/Alluvium Interface
MKTF-02	06/26/20	4.00	20.48	ND	0.00	7.70	6,909.75	NA	7 - 17	Chinle/Alluvium Interface
MKTF-02	09/15/20	4.00	20.54	ND	0.00	7.88	6,909.57	NA	7 - 17	Chinle/Alluvium Interface
MKTF-02	11/10/20	4.00	20.54	ND	0.00	7.43	6,910.02	NA	7 - 17	Chinle/Alluvium Interface
MKTF-02	12/03/20	4.00	20.54	ND	0.00	7.72	6,909.73	NA	7 - 17	Chinle/Alluvium Interface
MKTF-02	01/28/21	4.00	20.54	ND	0.00	7.75	6,909.70	NA	7 - 17	Chinle/Alluvium Interface
MKTF-02	02/28/21	4.00	20.54	ND	0.00	7.14	6,910.31	NA	7 - 17	Chinle/Alluvium Interface
MKTF-02	03/31/21	4.00	20.54	ND	0.00	7.84	6,909.61	NA	7 - 17	Chinle/Alluvium Interface
MKTF-03	03/25/19	4.00	18.45	4.50	1.10	5.60	6,926.09	6,926.97	3 - 18	Chinle/Alluvium Interface
MKTF-03	05/13/19	4.00	18.45	4.55	1.11	5.66	6,926.03	6,926.92	3 - 18	Chinle/Alluvium Interface
MKTF-03	08/21/19	4.00	18.53	6.04	1.23	7.27	6,924.42	6,925.40	3 - 18	Chinle/Alluvium Interface
MKTF-03	10/30/19	4.00	18.45	6.70	1.30	8.00	6,923.69	6,924.73	3 - 18	Chinle/Alluvium Interface
MKTF-03	03/05/20	4.00	18.45	6.47	1.37	7.84	6,923.85	6924.95	3 - 18	Chinle/Alluvium Interface
MKTF-03	06/26/20	4.00	18.45	7.36	1.27	8.63	6,923.06	6924.08	3 - 18	Chinle/Alluvium Interface
MKTF-03	09/15/20	4.00	18.59	7.08	0.01	7.09	6,924.60	6924.61	3 - 18	Chinle/Alluvium Interface
MKTF-03	11/10/20	4.00	18.59	7.13	1.30	8.43	6,923.26	6924.30	3 - 18	Chinle/Alluvium Interface
MKTF-03	12/03/20	4.00	18.58	7.46	1.16	8.62	6,923.07	6924.00	3 - 18	Chinle/Alluvium Interface
MKTF-03	12/26/20	4.00	18.57	7.83	0.91	8.74	6,922.95	6923.68	3 - 18	Chinle/Alluvium Interface
MKTF-03	01/28/21	4.00	18.57	7.80	0.93	8.73	6,922.96	6923.70	3 - 18	Chinle/Alluvium Interface
MKTF-03	02/28/21	4.00	18.62	7.46	0.93	8.39	6,923.30	6924.04	3 - 18	Chinle/Alluvium Interface
MKTF-03	03/31/21	4.00	18.62	7.20	1.03	8.23	6,923.46	6924.28	3 - 18	Chinle/Alluvium Interface

TABLE 2A. FLUID LEVEL MEASUREMENTS FOR WELLS MKTF-1 THROUGH MKTF-50
MARATHON PETROLEUM COMPANY, GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground-water Elevation (ft)	Corrected Water Table[1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
MKTF-04	03/25/19	4.00	22.15	ND	0.00	6.45	6,927.12	NA	10 - 22	Chinle/Alluvium Interface
MKTF-04	05/13/19	4.00	22.15	ND	0.00	6.55	6,927.02	NA	10 - 22	Chinle/Alluvium Interface
MKTF-04	08/21/19	4.00	22.39	ND	0.00	8.27	6,925.30	NA	10 - 22	Chinle/Alluvium Interface
MKTF-04	10/30/19	4.00	22.30	ND	0.00	8.93	6,924.64	NA	10 - 22	Chinle/Alluvium Interface
MKTF-04	03/02/20	4.00	22.21	ND	0.00	8.47	6,925.10	NA	10 - 22	Chinle/Alluvium Interface
MKTF-04	06/26/20	4.00	22.15	ND	0.00	9.75	6,923.82	NA	10 - 22	Chinle/Alluvium Interface
MKTF-04	09/15/20	4.00	22.72	9.39	0.01	9.40	6,924.17	NA	10 - 22	Chinle/Alluvium Interface
MKTF-04	11/10/20	4.00	22.72	ND	0.00	9.20	6,924.37	NA	10 - 22	Chinle/Alluvium Interface
MKTF-04	12/03/20	4.00	22.72	9.70	0.01	9.71	6,923.86	NA	10 - 22	Chinle/Alluvium Interface
MKTF-04	01/28/21	4.00	22.72	ND	0.00	10.14	6,923.43	NA	10 - 22	Chinle/Alluvium Interface
MKTF-04	02/28/21	4.00	22.72	9.84	0.12	9.96	6,923.61	NA	10 - 22	Chinle/Alluvium Interface
MKTF-04	03/31/21	4.00	22.72	9.21	0.02	9.23	6,924.34	NA	10 - 22	Chinle/Alluvium Interface
MKTF-05	02/19/19	4.00	17.75	13.87	0.10	13.97	6,928.25	6,928.33	4 - 14	Chinle/Alluvium Interface
MKTF-05	05/13/19	4.00	17.75	12.95	0.17	13.12	6,929.10	6,929.24	4 - 14	Chinle/Alluvium Interface
MKTF-05	08/30/19	4.00	17.75	13.40	0.20	13.60	6,928.62	6,928.78	4 - 14	Chinle/Alluvium Interface
MKTF-05	10/30/19	4.00	17.75	13.90	0.30	14.20	6,928.02	6,928.26	4 - 14	Chinle/Alluvium Interface
MKTF-05	11/12/19	4.00	17.75	11.64	5.09	16.73	6,925.49	6929.56	4 - 14	Chinle/Alluvium Interface
MKTF-05	11/13/19	4.00	17.75	10.96	6.19	17.15	6,925.07	6930.02	4 - 14	Chinle/Alluvium Interface
MKTF-05	11/14/19	4.00	17.75	10.78	6.39	17.17	6,925.05	6930.16	4 - 14	Chinle/Alluvium Interface
MKTF-05	11/15/19	4.00	17.75	10.54	6.62	17.16	6,925.06	6930.36	4 - 14	Chinle/Alluvium Interface
MKTF-05	11/19/19	4.00	17.75	10.04	7.14	17.18	6,925.04	6930.75	4 - 14	Chinle/Alluvium Interface
MKTF-05	11/21/19	4.00	17.75	9.97	7.21	17.18	6,925.04	6930.81	4 - 14	Chinle/Alluvium Interface
MKTF-05	12/02/19	4.00	17.75	10.64	6.53	17.17	6,925.05	6930.27	4 - 14	Chinle/Alluvium Interface
MKTF-05	03/05/20	4.00	17.75	13.58	0.14	13.72	6,928.50	6928.61	4 - 14	Chinle/Alluvium Interface
MKTF-05	06/25/20	4.00	17.75	14.06	0.75	14.80	6,927.42	6928.02	4 - 14	Chinle/Alluvium Interface
MKTF-05	09/15/20	4.00	17.83	13.65	1.03	14.68	6,927.54	6928.36	4 - 14	Chinle/Alluvium Interface
MKTF-05	11/10/20	4.00	17.83	14.02	0.88	14.90	6,927.32	6928.02	4 - 14	Chinle/Alluvium Interface
MKTF-05	12/03/20	4.00	17.80	14.12	0.81	14.93	6,927.29	6927.94	4 - 14	Chinle/Alluvium Interface
MKTF-05	01/28/21	4.00	17.80	14.94	0.19	15.13	6,927.09	6927.24	4 - 14	Chinle/Alluvium Interface
MKTF-05	02/28/21	4.00	17.77	14.60	0.15	14.75	6,927.47	6927.59	4 - 14	Chinle/Alluvium Interface
MKTF-05	03/31/21	4.00	17.77	14.99	0.06	15.05	6,927.17	6927.22	4 - 14	Chinle/Alluvium Interface
MKTF-06	02/19/19	4.00	23.77	15.79	0.76	16.55	6,930.26	6,930.87	8 - 20	Chinle/Alluvium Interface
MKTF-06	05/13/19	4.00	23.77	15.55	0.84	16.39	6,930.42	6,931.09	8 - 20	Chinle/Alluvium Interface
MKTF-06	08/30/19	4.00	23.79	15.82	0.78	16.60	6,930.21	6,930.83	8 - 20	Chinle/Alluvium Interface
MKTF-06	10/30/19	4.00	23.77	16.80	1.11	17.91	6,928.90	6,929.79	8 - 20	Chinle/Alluvium Interface
MKTF-06	11/12/19	4.00	23.77	16.52	0.96	17.48	6,929.33	6930.10	8 - 20	Chinle/Alluvium Interface
MKTF-06	11/13/19	4.00	23.77	16.33	0.85	17.18	6,929.63	6930.31	8 - 20	Chinle/Alluvium Interface

TABLE 2A. FLUID LEVEL MEASUREMENTS FOR WELLS MKTF-1 THROUGH MKTF-50
MARATHON PETROLEUM COMPANY, GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground-water Elevation (ft)	Corrected Water Table[1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
MKTF-06	11/14/19	4.00	23.77	16.42	0.89	17.31	6,929.50	6930.21	8 - 20	Chinle/Alluvium Interface
MKTF-06	11/15/19	4.00	23.77	16.35	0.85	17.20	6,929.61	6930.29	8 - 20	Chinle/Alluvium Interface
MKTF-06	11/19/19	4.00	23.77	16.08	0.75	16.83	6,929.98	6930.58	8 - 20	Chinle/Alluvium Interface
MKTF-06	11/21/19	4.00	23.77	15.93	1.31	17.24	6,929.57	6930.62	8 - 20	Chinle/Alluvium Interface
MKTF-06	12/02/19	4.00	23.77	14.75	6.61	21.36	6,925.45	6930.74	8 - 20	Chinle/Alluvium Interface
MKTF-06	03/05/20	4.00	23.77	16.89	1.71	18.60	6,928.21	6929.58	8 - 20	Chinle/Alluvium Interface
MKTF-06	06/25/20	4.00	23.77	14.05	4.86	18.90	6,927.91	6931.79	8 - 20	Chinle/Alluvium Interface
MKTF-06	09/15/20	4.00	23.79	16.78	1.93	18.71	6,928.10	6929.64	8 - 20	Chinle/Alluvium Interface
MKTF-06	11/10/20	4.00	23.79	17.20	1.39	18.59	6,928.22	6929.33	8 - 20	Chinle/Alluvium Interface
MKTF-06	12/03/20	4.00	23.79	17.38	1.11	18.49	6,928.32	6929.21	8 - 20	Chinle/Alluvium Interface
MKTF-06	01/28/21	4.00	23.79	18.09	1.56	19.65	6,927.16	6928.41	8 - 20	Chinle/Alluvium Interface
MKTF-06	02/28/21	4.00	23.85	17.93	0.72	18.65	6,928.16	6928.74	8 - 20	Chinle/Alluvium Interface
MKTF-06	03/31/21	4.00	23.85	17.97	0.18	18.15	6,928.66	6928.80	8 - 20	Chinle/Alluvium Interface
MKTF-07	02/19/19	4.00	17.62	10.39	1.21	11.60	6,935.58	6,936.55	4 - 14	Chinle/Alluvium Interface
MKTF-07	05/13/19	4.00	17.62	10.72	0.10	10.82	6,936.36	6,936.44	4 - 14	Chinle/Alluvium Interface
MKTF-07	08/30/19	4.00	17.47	11.18	1.11	12.29	6,934.89	6,935.78	4 - 14	Chinle/Alluvium Interface
MKTF-07	10/30/19	4.00	17.62	12.20	1.19	13.39	6,933.79	6,934.74	4 - 14	Chinle/Alluvium Interface
MKTF-07	11/12/19	4.00	17.62	12.03	1.16	13.19	6,933.99	6934.92	4 - 14	Chinle/Alluvium Interface
MKTF-07	11/13/19	4.00	17.62	11.81	1.08	12.89	6,934.29	6935.15	4 - 14	Chinle/Alluvium Interface
MKTF-07	11/14/19	4.00	17.62	11.98	1.16	13.14	6,934.04	6934.97	4 - 14	Chinle/Alluvium Interface
MKTF-07	11/15/19	4.00	17.62	12.00	1.16	13.16	6,934.02	6934.95	4 - 14	Chinle/Alluvium Interface
MKTF-07	11/19/19	4.00	17.62	11.40	2.77	14.17	6,933.01	6935.23	4 - 14	Chinle/Alluvium Interface
MKTF-07	11/21/19	4.00	17.62	10.83	5.72	16.55	6,930.63	6935.21	4 - 14	Chinle/Alluvium Interface
MKTF-07	12/02/19	4.00	17.62	11.38	5.74	17.12	6,930.06	6934.65	4 - 14	Chinle/Alluvium Interface
MKTF-07	03/05/20	4.00	17.62	12.50	1.22	13.72	6,933.46	6934.44	4 - 14	Chinle/Alluvium Interface
MKTF-07	06/25/20	4.00	17.62	12.23	1.53	13.76	6,933.42	6934.64	4 - 14	Chinle/Alluvium Interface
MKTF-07	09/18/20	4.00	17.43	11.42	2.35	13.77	6,933.41	6935.29	4 - 14	Chinle/Alluvium Interface
MKTF-07	11/10/20	4.00	17.43	12.56	1.20	13.76	6,933.42	6934.38	4 - 14	Chinle/Alluvium Interface
MKTF-07	12/03/20	4.00	17.66	12.93	0.87	13.80	6,933.38	6934.08	4 - 14	Chinle/Alluvium Interface
MKTF-07	01/28/21	4.00	17.66	13.80	0.40	14.20	6,932.98	6933.30	4 - 14	Chinle/Alluvium Interface
MKTF-07	02/28/21	4.00	17.86	13.51	0.21	13.72	6,933.46	6933.63	4 - 14	Chinle/Alluvium Interface
MKTF-07	03/31/21	4.00	17.86	13.70	0.11	13.81	6,933.37	6933.46	4 - 14	Chinle/Alluvium Interface
MKTF-08	02/19/19	4.00	21.98	11.35	0.65	12.00	6,935.09	6,935.61	8 - 18	Chinle/Alluvium Interface
MKTF-08	05/13/19	4.00	21.98	11.95	0.48	12.43	6,934.66	6,935.04	8 - 18	Chinle/Alluvium Interface
MKTF-08	08/30/19	4.00	21.98	12.50	0.40	12.90	6,934.19	6,934.51	8 - 18	Chinle/Alluvium Interface
MKTF-08	10/30/19	4.00	21.98	13.54	0.45	13.99	6,933.10	6,933.46	8 - 18	Chinle/Alluvium Interface
MKTF-08	11/21/19	4.00	21.98	13.47	0.38	13.85	6,933.24	6933.54	8 - 18	Chinle/Alluvium Interface
MKTF-08	12/02/19	4.00	21.98	13.72	0.41	14.13	6,932.96	6933.29	8 - 18	Chinle/Alluvium Interface

TABLE 2A. FLUID LEVEL MEASUREMENTS FOR WELLS MKTF-1 THROUGH MKTF-50
MARATHON PETROLEUM COMPANY, GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground-water Elevation (ft)	Corrected Water Table[1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
MKTF-08	03/05/20	4.00	21.98	14.03	0.34	14.37	6,932.72	6932.99	8 - 18	Chinle/Alluvium Interface
MKTF-08	06/25/20	4.00	21.98	14.00	0.40	14.40	6,932.69	6933.01	8 - 18	Chinle/Alluvium Interface
MKTF-08	09/18/20	4.00	22.00	13.76	0.39	14.15	6,932.94	6933.25	8 - 18	Chinle/Alluvium Interface
MKTF-08	11/10/20	4.00	22.00	14.23	0.46	14.69	6,932.40	6932.77	8 - 18	Chinle/Alluvium Interface
MKTF-08	12/03/20	4.00	22.01	14.36	0.40	14.76	6,932.33	6932.65	8 - 18	Chinle/Alluvium Interface
MKTF-08	01/28/21	4.00	22.01	14.84	0.31	15.15	6,931.94	6932.19	8 - 18	Chinle/Alluvium Interface
MKTF-08	02/28/21	4.00	22.00	14.76	0.13	14.89	6,932.20	6932.30	8 - 18	Chinle/Alluvium Interface
MKTF-08	03/31/21	4.00	22.00	14.60	0.10	14.70	6,932.39	6932.47	8 - 18	Chinle/Alluvium Interface
MKTF-09	03/25/19	4.00	22.70	ND	0.00	11.10	6,935.40	NA	7 - 19	Chinle/Alluvium Interface
MKTF-09	05/13/19	4.00	22.70	ND	0.00	12.27	6,934.23	NA	7 - 19	Chinle/Alluvium Interface
MKTF-09	08/28/19	4.00	22.74	ND	0.00	13.28	6,933.22	NA	7 - 19	Chinle/Alluvium Interface
MKTF-09	11/18/19	4.00	22.75	ND	0.00	13.97	6,932.53	NA	7 - 19	Chinle/Alluvium Interface
MKTF-09	03/02/20	4.00	22.76	ND	0.00	14.23	6,932.27	NA	7 - 19	Chinle/Alluvium Interface
MKTF-09	06/25/20	4.00	22.77	ND	0.00	14.55	6,931.95	NA	7 - 19	Chinle/Alluvium Interface
MKTF-09	09/18/20	4.00	22.41	14.19	0.01	14.20	6,932.30	6932.31	7 - 19	Chinle/Alluvium Interface
MKTF-09	11/10/20	4.00	22.41	14.61	0.01	14.62	6,931.88	6931.89	7 - 19	Chinle/Alluvium Interface
MKTF-09	12/03/20	4.00	22.78	14.75	0.01	14.76	6,931.74	6931.75	7 - 19	Chinle/Alluvium Interface
MKTF-09	01/28/21	4.00	22.78	ND	0.00	15.11	6,931.39	6931.39	7 - 19	Chinle/Alluvium Interface
MKTF-09	02/28/21	4.00	22.70	14.76	0.13	14.89	6,931.61	6931.71	7 - 19	Chinle/Alluvium Interface
MKTF-09	03/31/21	4.00	22.70	14.85	0.02	14.87	6,931.63	6931.65	7 - 19	Chinle/Alluvium Interface
MKTF-10	03/25/19	4.00	15.99	ND	0.00	5.70	6,931.46	NA	7 - 17	Chinle/Alluvium Interface
MKTF-10	05/13/19	4.00	15.99	ND	0.00	6.23	6,930.93	NA	7 - 17	Chinle/Alluvium Interface
MKTF-10	08/21/19	4.00	16.28	ND	0.00	7.65	6,929.51	NA	7 - 17	Chinle/Alluvium Interface
MKTF-10	10/30/19	4.00	15.99	ND	0.00	7.28	6,929.88	NA	7 - 17	Chinle/Alluvium Interface
MKTF-10	03/02/20	4.00	15.99	ND	0.00	7.67	6,929.49	NA	7 - 17	Chinle/Alluvium Interface
MKTF-10	06/25/20	4.00	15.99	ND	0.00	7.07	6,930.09	NA	7 - 17	Chinle/Alluvium Interface
MKTF-10	09/18/20	4.00	16.41	7.52	0.01	7.53	6,929.63	6929.64	7 - 17	Chinle/Alluvium Interface
MKTF-10	11/10/20	4.00	16.41	ND	0.00	7.79	6,929.37	NA	7 - 17	Chinle/Alluvium Interface
MKTF-10	12/03/20	4.00	16.50	ND	0.00	7.80	6,929.36	NA	7 - 17	Chinle/Alluvium Interface
MKTF-10	01/28/21	4.00	16.50	ND	0.00	7.91	6,929.25	NA	7 - 17	Chinle/Alluvium Interface
MKTF-10	02/28/21	4.00	16.50	ND	0.00	7.89	6,929.27	NA	7 - 17	Chinle/Alluvium Interface
MKTF-10	03/31/21	4.00	16.50	ND	0.00	7.74	6,929.42	NA	7 - 17	Chinle/Alluvium Interface
MKTF-11	03/25/19	4.00	18.14	ND	0.00	4.96	6,926.38	NA	8 - 18	Chinle/Alluvium Interface
MKTF-11	05/13/19	4.00	18.14	ND	0.00	5.24	6,926.10	NA	8 - 18	Chinle/Alluvium Interface
MKTF-11	08/21/19	4.00	18.48	ND	0.00	6.22	6,925.12	NA	8 - 18	Chinle/Alluvium Interface
MKTF-11	10/30/19	4.00	18.14	ND	0.00	7.06	6,924.28	NA	8 - 18	Chinle/Alluvium Interface
MKTF-11	03/02/20	4.00	18.14	ND	0.00	7.89	6,923.45	NA	8 - 18	Chinle/Alluvium Interface

TABLE 2A. FLUID LEVEL MEASUREMENTS FOR WELLS MKTF-1 THROUGH MKTF-50
MARATHON PETROLEUM COMPANY, GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground-water Elevation (ft)	Corrected Water Table[1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
MKTF-11	06/26/20	4.00	18.14	7.67	0.01	7.68	6,923.66	6923.67	8 - 18	Chinle/Alluvium Interface
MKTF-11	09/18/20	4.00	18.45	7.59	0.01	7.60	6,923.74	6923.75	8 - 18	Chinle/Alluvium Interface
MKTF-11	11/10/20	4.00	18.45	ND	0.00	7.61	6,923.73	NA	8 - 18	Chinle/Alluvium Interface
MKTF-11	12/03/20	4.00	18.45	7.89	0.02	7.91	6,923.43	NA	8 - 18	Chinle/Alluvium Interface
MKTF-11	01/28/21	4.00	18.45	ND	0.00	7.88	6,923.46	NA	8 - 18	Chinle/Alluvium Interface
MKTF-11	02/28/21	4.00	18.53	ND	0.00	7.84	6,923.50	NA	8 - 18	Chinle/Alluvium Interface
MKTF-11	03/31/21	4.00	18.53	ND	0.00	7.63	6,923.71	NA	8 - 18	Chinle/Alluvium Interface
MKTF-12	03/26/19	4.00	25.60	16.65	0.35	17.00	6,925.11	6,925.39	12 - 22	Chinle/Alluvium Interface
MKTF-12	05/09/19	4.00	25.60	17.25	0.10	17.35	6,924.76	6,924.84	12 - 22	Chinle/Alluvium Interface
MKTF-12	08/20/19	4.00	25.60	17.92	0.09	18.01	6,924.10	6,924.17	12 - 22	Chinle/Alluvium Interface
MKTF-12	10/28/19	4.00	25.60	18.35	0.12	18.47	6,923.64	6,923.74	12 - 22	Chinle/Alluvium Interface
MKTF-12	11/12/19	4.00	25.60	18.14	0.08	18.22	6,923.89	6923.95	12 - 22	Chinle/Alluvium Interface
MKTF-12	11/13/19	4.00	25.60	18.02	0.10	18.12	6,923.99	6924.07	12 - 22	Chinle/Alluvium Interface
MKTF-12	11/14/19	4.00	25.60	18.11	0.08	18.19	6,923.92	6923.98	12 - 22	Chinle/Alluvium Interface
MKTF-12	11/15/19	4.00	25.60	18.10	0.08	18.18	6,923.93	6923.99	12 - 22	Chinle/Alluvium Interface
MKTF-12	11/19/19	4.00	25.60	18.00	0.09	18.09	6,924.02	6924.09	12 - 22	Chinle/Alluvium Interface
MKTF-12	11/21/19	4.00	25.60	18.04	0.16	18.20	6,923.91	6924.04	12 - 22	Chinle/Alluvium Interface
MKTF-12	12/02/19	4.00	25.60	17.70	0.05	17.75	6,924.36	6924.40	12 - 22	Chinle/Alluvium Interface
MKTF-12	02/27/20	4.00	25.60	17.84	0.08	17.92	6,924.19	6924.25	12 - 22	Chinle/Alluvium Interface
MKTF-12	06/29/20	4.00	25.60	19.13	0.12	19.25	6,922.86	6922.96	12 - 22	Chinle/Alluvium Interface
MKTF-12	09/18/20	4.00	25.82	18.64	0.01	18.65	6,923.46	6923.47	12 - 22	Chinle/Alluvium Interface
MKTF-12	11/10/20	4.00	25.82	17.97	0.03	18.00	6,924.11	6924.13	12 - 22	Chinle/Alluvium Interface
MKTF-12	12/03/20	4.00	25.89	18.90	0.16	19.06	6,923.05	6923.18	12 - 22	Chinle/Alluvium Interface
MKTF-12	01/28/21	4.00	25.89	19.46	0.17	19.63	6,922.48	6922.62	12 - 22	Chinle/Alluvium Interface
MKTF-12	02/28/21	4.00	25.85	18.82	0.10	18.92	6,923.19	6923.27	12 - 22	Chinle/Alluvium Interface
MKTF-12	03/31/21	4.00	25.85	18.59	0.04	18.63	6,923.48	6923.51	12 - 22	Chinle/Alluvium Interface
MKTF-13	03/26/19	4.00	21.25	ND	0.00	10.90	6,924.28	NA	8 - 18	Chinle/Alluvium Interface
MKTF-13	05/09/19	4.00	21.25	ND	0.00	11.60	6,923.58	NA	8 - 18	Chinle/Alluvium Interface
MKTF-13	08/20/19	4.00	21.55	ND	0.00	12.45	6,922.73	NA	8 - 18	Chinle/Alluvium Interface
MKTF-13	10/28/19	4.00	21.25	ND	0.00	12.95	6,922.23	NA	8 - 18	Chinle/Alluvium Interface
MKTF-13	11/12/19	4.00	21.25	ND	0.00	12.82	6,922.36	NA	8 - 18	Chinle/Alluvium Interface
MKTF-13	11/13/19	4.00	21.25	ND	0.00	12.75	6,922.43	NA	8 - 18	Chinle/Alluvium Interface
MKTF-13	11/14/19	4.00	21.25	ND	0.00	12.85	6,922.33	NA	8 - 18	Chinle/Alluvium Interface
MKTF-13	11/15/19	4.00	21.25	ND	0.00	12.80	6,922.38	NA	8 - 18	Chinle/Alluvium Interface
MKTF-13	11/19/19	4.00	21.25	ND	0.00	12.71	6,922.47	NA	8 - 18	Chinle/Alluvium Interface
MKTF-13	11/21/19	4.00	21.25	ND	0.00	12.75	6,922.43	NA	8 - 18	Chinle/Alluvium Interface
MKTF-13	12/02/19	4.00	21.25	ND	0.00	12.40	6,922.78	NA	8 - 18	Chinle/Alluvium Interface
MKTF-13	02/27/20	4.00	21.25	11.13	6.18	17.31	6,917.87	6922.81	8 - 18	Chinle/Alluvium Interface

TABLE 2A. FLUID LEVEL MEASUREMENTS FOR WELLS MKTF-1 THROUGH MKTF-50
MARATHON PETROLEUM COMPANY, GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground-water Elevation (ft)	Corrected Water Table[1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
MKTF-13	06/29/20	4.00	21.25	12.67	5.54	18.21	6,916.97	6921.40	8 - 18	Chinle/Alluvium Interface
MKTF-13	09/18/20	4.00	22.13	12.55	4.37	16.92	6,918.26	6921.76	8 - 18	Chinle/Alluvium Interface
MKTF-13	11/10/20	4.00	22.13	11.98	4.38	16.36	6,918.82	6922.32	8 - 18	Chinle/Alluvium Interface
MKTF-13	12/03/20	4.00	21.92	12.84	3.81	16.65	6,918.53	6921.58	8 - 18	Chinle/Alluvium Interface
MKTF-13	01/28/21	4.00	21.92	13.25	4.01	17.26	6,917.92	6921.13	8 - 18	Chinle/Alluvium Interface
MKTF-13	02/28/21	4.00	21.75	12.60	4.30	16.90	6,918.28	6921.72	8 - 18	Chinle/Alluvium Interface
MKTF-13	03/31/21	4.00	21.75	12.21	4.44	16.65	6,918.53	6922.08	8 - 18	Chinle/Alluvium Interface
MKTF-14	03/25/19	4.00	17.46	3.89	0.36	4.25	6,923.77	6,924.06	4 - 14	Chinle/Alluvium Interface
MKTF-14	05/09/19	4.00	17.46	4.65	0.39	5.04	6,922.98	6,923.29	4 - 14	Chinle/Alluvium Interface
MKTF-14	08/20/19	4.00	17.45	5.64	0.28	5.92	6,922.10	6,922.32	4 - 14	Chinle/Alluvium Interface
MKTF-14	10/28/19	4.00	17.46	6.02	0.37	6.39	6,921.63	6,921.93	4 - 14	Chinle/Alluvium Interface
MKTF-14	02/27/20	4.00	17.46	5.35	0.30	5.65	6,922.37	6922.61	4 - 14	Chinle/Alluvium Interface
MKTF-14	06/29/20	4.00	17.46	6.38	2.20	8.58	6,919.44	6921.20	4 - 14	Chinle/Alluvium Interface
MKTF-14	09/18/20	4.00	17.32	6.18	1.98	8.16	6,919.86	6921.44	4 - 14	Chinle/Alluvium Interface
MKTF-14	11/10/20	4.00	17.32	5.98	0.30	6.28	6,921.74	6921.98	4 - 14	Chinle/Alluvium Interface
MKTF-14	12/03/20	4.00	17.55	6.79	0.27	7.06	6,920.96	6921.18	4 - 14	Chinle/Alluvium Interface
MKTF-14	01/28/21	4.00	17.55	7.11	0.30	7.41	6,920.61	6920.85	4 - 14	Chinle/Alluvium Interface
MKTF-14	02/28/21	4.00	17.55	6.64	0.34	6.98	6,921.04	6921.31	4 - 14	Chinle/Alluvium Interface
MKTF-14	03/31/21	4.00	17.55	6.14	0.12	6.26	6,921.76	6921.86	4 - 14	Chinle/Alluvium Interface
MKTF-15	03/25/19	2.00	19.48	10.98	0.02	11.00	6,932.48	6,932.50	9 - 19	Chinle/Alluvium Interface
MKTF-15	05/13/19	2.00	19.48	ND	0.00	11.59	6,931.89	NA	9 - 19	Chinle/Alluvium Interface
MKTF-15	08/21/19	2.00	19.50	12.02	0.01	12.03	6,931.45	NA	9 - 19	Chinle/Alluvium Interface
MKTF-15	10/30/19	2.00	19.48	12.65	0.05	12.70	6,930.78	6,930.82	9 - 19	Chinle/Alluvium Interface
MKTF-15	02/03/20	2.00	19.48	13.02	0.09	13.11	6,930.37	6,930.44	9 - 19	Chinle/Alluvium Interface
MKTF-15	06/26/20	2.00	19.48	13.11	0.06	13.17	6,930.31	6,930.36	9 - 19	Chinle/Alluvium Interface
MKTF-15	09/18/20	2.00	19.18	13.00	0.03	13.03	6,930.45	6,930.47	9 - 19	Chinle/Alluvium Interface
MKTF-15	11/10/20	2.00	19.18	13.25	0.25	13.50	6,929.98	6,930.18	9 - 19	Chinle/Alluvium Interface
MKTF-15	12/03/20	2.00	19.52	13.39	0.21	13.60	6,929.88	6,930.05	9 - 19	Chinle/Alluvium Interface
MKTF-15	01/28/21	2.00	19.52	13.54	0.21	13.75	6,929.73	6,929.90	9 - 19	Chinle/Alluvium Interface
MKTF-15	02/28/21	2.00	19.53	13.45	0.07	13.52	6,929.96	6,930.02	9 - 19	Chinle/Alluvium Interface
MKTF-15	03/31/21	2.00	19.53	13.39	0.03	13.42	6,930.06	6,930.08	9 - 19	Chinle/Alluvium Interface
MKTF-16	02/20/19	2.00	14.10	ND	0.00	7.05	6,943.53	NA	4 - 14	Chinle/Alluvium Interface
MKTF-16	05/13/19	2.00	14.10	ND	0.00	8.35	6,942.23	NA	4 - 14	Chinle/Alluvium Interface
MKTF-16	08/21/19	2.00	14.08	ND	0.00	9.22	6,941.36	NA	4 - 14	Chinle/Alluvium Interface
MKTF-16	10/30/19	2.00	14.10	ND	0.00	9.89	6,940.69	NA	4 - 14	Chinle/Alluvium Interface
MKTF-16	02/05/20	2.00	14.10	ND	0.00	9.68	6,940.90	NA	4 - 14	Chinle/Alluvium Interface
MKTF-16	06/26/20	2.00	14.10	ND	0.00	9.54	6,941.04	NA	4 - 14	Chinle/Alluvium Interface

TABLE 2A. FLUID LEVEL MEASUREMENTS FOR WELLS MKTF-1 THROUGH MKTF-50
MARATHON PETROLEUM COMPANY, GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground-water Elevation (ft)	Corrected Water Table[1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
MKTF-16	09/18/20	2.00	10.92	9.18	0.01	9.19	6,941.39	6,941.40	4 - 14	Chinle/Alluvium Interface
MKTF-16	11/10/20	2.00	10.92	ND	0.00	7.20	6,943.38	NA	4 - 14	Chinle/Alluvium Interface
MKTF-16	12/08/20	2.00	10.95	ND	0.00	9.70	6,940.88	NA	4 - 14	Chinle/Alluvium Interface
MKTF-16	01/28/21	2.00	10.95	ND	0.00	6.15	6,944.43	NA	4 - 14	Chinle/Alluvium Interface
MKTF-16	02/28/21	2.00	10.95	ND	0.00	8.84	6,941.74	NA	4 - 14	Chinle/Alluvium Interface
MKTF-16	03/31/21	2.00	10.95	ND	0.00	9.31	6,941.27	NA	4 - 14	Chinle/Alluvium Interface
MKTF-17	03/25/19	2.00	24.11	ND	0.00	10.70	6,935.06	NA	14 - 24	Chinle/Alluvium Interface
MKTF-17	05/09/19	2.00	24.11	ND	0.00	14.05	6,931.71	NA	14 - 24	Chinle/Alluvium Interface
MKTF-17	08/19/19	2.00	24.68	ND	0.00	10.79	6,934.97	NA	14 - 24	Chinle/Alluvium Interface
MKTF-17	10/28/19	2.00	24.65	ND	0.00	9.00	6,936.76	NA	14 - 24	Chinle/Alluvium Interface
MKTF-17	10/29/19	2.00	24.65	ND	0.00	15.20	6,930.56	NA	14 - 24	Chinle/Alluvium Interface
MKTF-17	11/12/19	2.00	24.65	ND	0.00	11.86	6,933.90	NA	14 - 24	Chinle/Alluvium Interface
MKTF-17	11/19/19	2.00	24.65	12.35	1.60	13.95	6,931.81	6,933.09	14 - 24	Chinle/Alluvium Interface
MKTF-17	11/21/19	2.00	24.65	12.42	2.88	15.30	6,930.46	6,932.76	14 - 24	Chinle/Alluvium Interface
MKTF-17	12/02/19	2.00	24.65	13.17	4.88	18.05	6,927.71	6,931.61	14 - 24	Chinle/Alluvium Interface
MKTF-17	02/03/20	2.00	24.11	11.44	5.41	16.85	6,928.91	6,933.24	14 - 24	Chinle/Alluvium Interface
MKTF-17	06/29/20	2.00	24.11	10.19	5.31	15.50	6,930.26	6,934.51	14 - 24	Chinle/Alluvium Interface
MKTF-17	09/14/20	2.00	24.67	10.00	5.37	15.37	6,930.39	6,934.69	14 - 24	Chinle/Alluvium Interface
MKTF-17	11/10/20	2.00	24.67	11.39	0.20	11.59	6,934.17	6,934.33	14 - 24	Chinle/Alluvium Interface
MKTF-17	12/04/20	2.00	24.66	11.28	0.19	11.47	6,934.29	6,934.44	14 - 24	Chinle/Alluvium Interface
MKTF-17	01/28/21	2.00	24.65	11.88	0.02	11.90	6,933.86	6,933.88	14 - 24	Chinle/Alluvium Interface
MKTF-17	02/28/21	2.00	24.70	11.88	0.02	11.90	6,933.86	6,933.88	14 - 24	Chinle/Alluvium Interface
MKTF-17	03/31/21	2.00	24.70	12.06	0.03	12.09	6,933.67	6,933.69	14 - 24	Chinle/Alluvium Interface
MKTF-18	03/25/19	2.00	25.38	ND	0.00	7.32	6,943.33	NA	17 - 27	Chinle/Alluvium Interface
MKTF-18	05/16/19	2.00	25.38	ND	0.00	7.54	6,943.11	NA	17 - 27	Chinle/Alluvium Interface
MKTF-18	08/19/19	2.00	27.45	7.71	0.01	7.72	6,942.93	6,942.94	17 - 27	Chinle/Alluvium Interface
MKTF-18	10/28/19	2.00	25.38	ND	0.00	7.79	6,942.86	NA	17 - 27	Chinle/Alluvium Interface
MKTF-18	10/29/19	2.00	25.38	ND	0.00	8.30	6,942.35	NA	17 - 27	Chinle/Alluvium Interface
MKTF-18	11/12/19	2.00	25.38	ND	0.00	8.19	6,942.46	NA	17 - 27	Chinle/Alluvium Interface
MKTF-18	02/05/20	2.00	25.38	ND	0.00	9.10	6,941.55	NA	17 - 27	Chinle/Alluvium Interface
MKTF-18	06/30/20	2.00	25.38	ND	0.00	8.98	6,941.67	NA	17 - 27	Chinle/Alluvium Interface
MKTF-18	09/18/20	2.00	21.73	8.49	0.01	8.50	6,942.15	6,942.16	17 - 27	Chinle/Alluvium Interface
MKTF-18	11/10/20	2.00	21.73	ND	0.00	8.74	6,941.91	NA	17 - 27	Chinle/Alluvium Interface
MKTF-18	12/04/20	2.00	25.50	ND	0.00	8.80	6,941.85	NA	17 - 27	Chinle/Alluvium Interface
MKTF-18	01/28/21	2.00	25.50	ND	0.00	9.28	6,941.37	NA	17 - 27	Chinle/Alluvium Interface
MKTF-18	02/28/21	2.00	27.55	ND	0.00	9.08	6,941.57	NA	17 - 27	Chinle/Alluvium Interface
MKTF-18	03/31/21	2.00	27.55	ND	0.00	9.30	6,941.35	NA	17 - 27	Chinle/Alluvium Interface

TABLE 2A. FLUID LEVEL MEASUREMENTS FOR WELLS MKTF-1 THROUGH MKTF-50
MARATHON PETROLEUM COMPANY, GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground-water Elevation (ft)	Corrected Water Table[1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
MKTF-19	03/25/19	2.00	17.47	ND	0.00	11.40	6,933.27	NA	10 - 20	Chinle/Alluvium Interface
MKTF-19	05/09/19	2.00	17.47	ND	0.00	11.31	6,933.36	NA	10 - 20	Chinle/Alluvium Interface
MKTF-19	08/19/19	2.00	19.30	ND	0.00	11.06	6,933.61	NA	10 - 20	Chinle/Alluvium Interface
MKTF-19	10/28/19	2.00	18.20	ND	0.00	10.91	6,933.76	NA	10 - 20	Chinle/Alluvium Interface
MKTF-19	10/29/19	2.00	18.20	ND	0.00	15.76	6,928.91	NA	10 - 20	Chinle/Alluvium Interface
MKTF-19	11/12/19	2.00	18.20	ND	0.00	10.85	6,933.82	NA	10 - 20	Chinle/Alluvium Interface
MKTF-19	11/19/19	2.00	18.20	ND	0.00	10.90	6,933.77	NA	10 - 20	Chinle/Alluvium Interface
MKTF-19	11/21/19	2.00	18.20	ND	0.00	11.05	6,933.62	NA	10 - 20	Chinle/Alluvium Interface
MKTF-19	12/02/19	2.00	18.20	11.63	0.87	12.50	6,932.17	6,932.87	10 - 20	Chinle/Alluvium Interface
MKTF-19	02/03/20	2.00	17.47	11.35	1.05	12.40	6,932.27	6,933.11	10 - 20	Chinle/Alluvium Interface
MKTF-19	06/29/20	2.00	17.47	12.08	1.21	13.29	6,931.38	6,932.35	10 - 20	Chinle/Alluvium Interface
MKTF-19	09/14/20	2.00	19.24	11.95	0.02	11.97	6,932.70	6,932.72	10 - 20	Chinle/Alluvium Interface
MKTF-19	11/10/20	2.00	19.24	12.22	1.33	13.55	6,931.12	6,932.18	10 - 20	Chinle/Alluvium Interface
MKTF-19	12/04/20	2.00	19.38	12.18	1.24	13.42	6,931.25	6,932.24	10 - 20	Chinle/Alluvium Interface
MKTF-19	01/28/21	2.00	19.38	12.22	1.24	13.46	6,931.21	6,932.20	10 - 20	Chinle/Alluvium Interface
MKTF-19	02/28/21	2.00	19.44	12.45	1.14	13.59	6,931.08	6,931.99	10 - 20	Chinle/Alluvium Interface
MKTF-19	03/31/21	2.00	19.44	12.60	1.23	13.83	6,930.84	6,931.82	10 - 20	Chinle/Alluvium Interface
MKTF-20	02/20/19	4.00	8.83	ND	0.00	6.29	6,945.49	NA	2 - 10	Chinle/Alluvium Interface
MKTF-20	05/13/19	4.00	8.83	ND	0.00	7.14	6,944.64	NA	2 - 10	Chinle/Alluvium Interface
MKTF-20	08/20/19	4.00	8.83	ND	0.00	8.03	6,943.75	NA	2 - 10	Chinle/Alluvium Interface
MKTF-20	11/04/19	4.00	8.83	ND	0.00	7.68	6,944.10	NA	2 - 10	Chinle/Alluvium Interface
MKTF-20	02/05/20	4.00	8.83	ND	0.00	9.02	6,942.76	NA	2 - 10	Chinle/Alluvium Interface
MKTF-20	06/26/20	4.00	8.83	ND	0.00	8.67	6,943.11	NA	2 - 10	Chinle/Alluvium Interface
MKTF-20	09/15/20	4.00	9.62	8.54	0.81	9.35	6,942.43	6,943.08	2 - 10	Chinle/Alluvium Interface
MKTF-20	11/10/20	4.00	9.62	8.10	0.80	8.90	6,942.88	6,943.52	2 - 10	Chinle/Alluvium Interface
MKTF-20	12/08/20	4.00	9.60	8.76	0.19	8.95	6,942.83	6,942.98	2 - 10	Chinle/Alluvium Interface
MKTF-20	01/28/21	4.00	9.60	8.99	0.61	9.60	6,942.18	6,942.67	2 - 10	Chinle/Alluvium Interface
MKTF-20	02/28/21	4.00	9.61	ND	0.00	DRY	6,951.78	6,951.78	2 - 10	Chinle/Alluvium Interface
MKTF-20	03/31/21	4.00	9.61	8.95	0.28	9.23	6,951.78	6,952.00	2 - 10	Chinle/Alluvium Interface
MKTF-21	02/20/19	4.00	8.81	ND	0.00	5.62	6,946.95	NA	2 - 10	Chinle/Alluvium Interface
MKTF-21	05/13/19	4.00	8.81	ND	0.00	6.70	6,945.87	NA	2 - 10	Chinle/Alluvium Interface
MKTF-21	08/20/19	4.00	8.81	ND	0.00	7.22	6,945.35	NA	2 - 10	Chinle/Alluvium Interface
MKTF-21	10/30/19	4.00	8.81	ND	0.00	8.32	6,944.25	NA	2 - 10	Chinle/Alluvium Interface
MKTF-21	02/05/20	4.00	8.83	ND	0.00	8.25	6,944.32	NA	2 - 10	Chinle/Alluvium Interface
MKTF-21	06/26/20	4.00	8.83	8.17	0.03	8.20	6,944.37	6944.39	2 - 10	Chinle/Alluvium Interface
MKTF-21	09/15/20	4.00	8.84	7.08	0.01	7.09	6,945.48	6945.49	2 - 10	Chinle/Alluvium Interface
MKTF-21	11/10/20	4.00	8.84	ND	0.00	6.41	6,946.16	NA	2 - 10	Chinle/Alluvium Interface
MKTF-21	12/04/20	4.00	8.80	8.04	0.01	8.05	6,944.52	6944.53	2 - 10	Chinle/Alluvium Interface

TABLE 2A. FLUID LEVEL MEASUREMENTS FOR WELLS MKTF-1 THROUGH MKTF-50
MARATHON PETROLEUM COMPANY, GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground-water Elevation (ft)	Corrected Water Table[1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
MKTF-21	01/28/21	4.00	8.80	ND	0.00	7.34	6,945.23	NA	2 - 10	Chinle/Alluvium Interface
MKTF-21	02/28/21	4.00	8.87	ND	0.00	7.81	6,944.76	NA	2 - 10	Chinle/Alluvium Interface
MKTF-21	03/31/21	4.00	8.87	ND	0.00	7.73	6,944.84	NA	2 - 10	Chinle/Alluvium Interface
MKTF-22	03/25/19	2.00	35.25	ND	0.00	24.43	6,917.88	NA	22 - 32	Chinle/Alluvium Interface
MKTF-22	05/09/19	2.00	35.25	ND	0.00	24.64	6,917.67	NA	22 - 32	Chinle/Alluvium Interface
MKTF-22	08/20/19	2.00	35.62	ND	0.00	24.95	6,917.36	NA	22 - 32	Chinle/Alluvium Interface
MKTF-22	10/24/19	2.00	35.60	ND	0.00	25.40	6,916.91	NA	22 - 32	Chinle/Alluvium Interface
MKTF-22	02/27/20	2.00	35.25	24.48	1.05	25.53	6,916.78	6917.62	22 - 32	Chinle/Alluvium Interface
MKTF-22	06/29/20	2.00	35.25	24.57	3.14	27.71	6,914.60	6917.11	22 - 32	Chinle/Alluvium Interface
MKTF-22	09/14/20	2.00	35.09	24.98	2.70	27.68	6,914.63	6916.79	22 - 32	Chinle/Alluvium Interface
MKTF-22	11/10/20	2.00	35.09	24.94	2.35	27.29	6,915.02	6916.90	22 - 32	Chinle/Alluvium Interface
MKTF-22	12/04/20	2.00	35.09	25.10	2.45	27.55	6,914.76	6916.72	22 - 32	Chinle/Alluvium Interface
MKTF-22	01/28/21	2.00	35.09	25.28	2.69	27.97	6,914.34	6916.49	22 - 32	Chinle/Alluvium Interface
MKTF-22	02/28/21	2.00	35.66	25.17	2.68	27.85	6,914.46	6916.60	22 - 32	Chinle/Alluvium Interface
MKTF-22	03/31/21	2.00	35.66	25.77	1.48	27.25	6,915.06	6916.24	22 - 32	Chinle/Alluvium Interface
MKTF-23	03/25/19	2.00	20.36	ND	ND	12.55	6,917.43	NA	7 - 17	Chinle/Alluvium Interface
MKTF-23	05/09/19	2.00	20.36	12.95	0.07	13.02	6,916.96	6,917.02	7 - 17	Chinle/Alluvium Interface
MKTF-23	08/20/19	2.00	20.38	13.47	0.03	13.50	6,916.48	6,916.50	7 - 17	Chinle/Alluvium Interface
MKTF-23	10/28/19	2.00	20.36	ND	0.00	13.95	6,916.03	NA	7 - 17	Chinle/Alluvium Interface
MKTF-23	02/27/20	2.00	20.36	ND	0.00	13.42	6,916.56	NA	7 - 17	Chinle/Alluvium Interface
MKTF-23	06/29/20	2.00	20.36	ND	0.00	13.25	6,916.73	NA	7 - 17	Chinle/Alluvium Interface
MKTF-23	09/19/20	2.00	20.02	15.42	0.02	15.44	6,914.54	6,914.56	7 - 17	Chinle/Alluvium Interface
MKTF-23	11/10/20	2.00	20.02	ND	0.00	14.23	6,915.75	NA	7 - 17	Chinle/Alluvium Interface
MKTF-23	12/04/20	2.00	20.39	14.15	0.01	14.16	6,915.82	6,915.83	7 - 17	Chinle/Alluvium Interface
MKTF-23	12/28/20	2.00	20.76	ND	0.00	14.09	6,915.89	NA	7 - 17	Chinle/Alluvium Interface
MKTF-23	01/28/21	2.00	20.76	14.22	0.01	14.23	6,915.75	6,915.76	7 - 17	Chinle/Alluvium Interface
MKTF-23	02/28/21	2.00	20.41	14.38	0.01	14.39	6,915.59	6,915.60	7 - 17	Chinle/Alluvium Interface
MKTF-23	03/31/21	2.00	20.41	ND	0.00	14.21	6,915.77	6,915.77	7 - 17	Chinle/Alluvium Interface
MKTF-24	02/25/19	2.00	30.47	ND	0.00	22.43	6,906.29	NA	18 - 28	Chinle/Alluvium Interface
MKTF-24	05/06/19	2.00	30.47	ND	0.00	21.53	6,907.19	NA	18 - 28	Chinle/Alluvium Interface
MKTF-24	08/23/19	2.00	30.85	ND	0.00	22.05	6,906.67	NA	18 - 28	Chinle/Alluvium Interface
MKTF-24	10/22/19	2.00	30.82	ND	0.00	23.21	6,905.51	NA	18 - 28	Chinle/Alluvium Interface
MKTF-24	02/24/20	2.00	30.47	ND	0.00	22.17	6,906.55	NA	18 - 28	Chinle/Alluvium Interface
MKTF-24	06/26/20	2.00	30.47	ND	0.00	22.80	6,905.92	NA	18 - 28	Chinle/Alluvium Interface
MKTF-24	09/15/20	2.00	31.13	ND	0.00	23.35	6,905.37	NA	18 - 28	Chinle/Alluvium Interface
MKTF-24	11/10/20	2.00	31.13	ND	0.00	23.32	6,905.40	NA	18 - 28	Chinle/Alluvium Interface
MKTF-24	12/04/20	2.00	31.18	ND	0.00	23.22	6,905.50	NA	18 - 28	Chinle/Alluvium Interface

TABLE 2A. FLUID LEVEL MEASUREMENTS FOR WELLS MKTF-1 THROUGH MKTF-50
MARATHON PETROLEUM COMPANY, GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground-water Elevation (ft)	Corrected Water Table[1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
MKTF-24	01/28/21	2.00	31.23	ND	0.00	23.26	6,905.46	NA	18 - 28	Chinle/Alluvium Interface
MKTF-24	02/27/21	2.00	31.47	ND	0.00	22.97	6,905.75	NA	18 - 28	Chinle/Alluvium Interface
MKTF-24	03/31/21	2.00	31.47	ND	0.00	23.16	6,905.56	NA	18 - 28	Chinle/Alluvium Interface
MKTF-25	02/14/19	2.00	19.43	ND	0.00	13.13	6,903.06	NA	6 - 16	Chinle/Alluvium Interface
MKTF-25	05/06/19	2.00	19.43	ND	0.00	12.00	6,904.19	NA	6 - 16	Chinle/Alluvium Interface
MKTF-25	08/23/19	2.00	19.78	ND	0.00	13.12	6,903.07	NA	6 - 16	Chinle/Alluvium Interface
MKTF-25	08/27/19	2.00	20.78	ND	0.00	13.23	6,902.96	NA	6 - 16	Chinle/Alluvium Interface
MKTF-25	10/22/19	2.00	19.80	ND	0.00	13.72	6,902.47	NA	6 - 16	Chinle/Alluvium Interface
MKTF-25	02/26/20	2.00	19.43	ND	0.00	12.94	6,903.25	NA	6 - 16	Chinle/Alluvium Interface
MKTF-25	06/26/20	2.00	19.43	ND	0.00	13.33	6,902.86	NA	6 - 16	Chinle/Alluvium Interface
MKTF-25	09/15/20	2.00	20.09	ND	0.00	13.90	6,902.29	NA	6 - 16	Chinle/Alluvium Interface
MKTF-25	11/10/20	2.00	20.09	ND	0.00	13.75	6,902.44	NA	6 - 16	Chinle/Alluvium Interface
MKTF-25	12/04/20	2.00	20.38	ND	0.00	13.62	6,902.57	NA	6 - 16	Chinle/Alluvium Interface
MKTF-25	01/28/21	2.00	20.38	ND	0.00	13.54	6,902.65	NA	6 - 16	Chinle/Alluvium Interface
MKTF-25	02/27/21	2.00	20.09	ND	0.00	13.46	6,902.73	NA	6 - 16	Chinle/Alluvium Interface
MKTF-25	03/31/21	2.00	20.09	ND	0.00	13.41	6,902.78	NA	6 - 16	Chinle/Alluvium Interface
MKTF-26	02/14/19	2.00	17.15	8.38	0.77	9.15	6,906.16	6,906.78	4 - 14	Chinle/Alluvium Interface
MKTF-26	05/06/19	2.00	17.15	7.80	0.85	8.65	6,906.66	6,907.34	4 - 14	Chinle/Alluvium Interface
MKTF-26	08/23/19	2.00	17.17	8.22	0.83	9.05	6,906.26	6,906.92	4 - 14	Chinle/Alluvium Interface
MKTF-26	10/22/19	2.00	17.15	8.63	0.73	9.36	6,905.95	6,906.53	4 - 14	Chinle/Alluvium Interface
MKTF-26	02/26/20	2.00	17.15	8.35	0.76	9.11	6,906.20	6906.81	4 - 14	Chinle/Alluvium Interface
MKTF-26	06/26/20	2.00	17.15	8.61	0.89	9.50	6,905.81	6906.52	4 - 14	Chinle/Alluvium Interface
MKTF-26	09/15/20	2.00	16.85	8.81	0.75	9.56	6,905.75	6906.35	4 - 14	Chinle/Alluvium Interface
MKTF-26	11/10/20	2.00	16.85	8.65	0.71	9.36	6,905.95	6906.52	4 - 14	Chinle/Alluvium Interface
MKTF-26	12/04/20	2.00	17.16	7.67	1.72	9.39	6,905.92	6907.30	4 - 14	Chinle/Alluvium Interface
MKTF-26	01/28/21	2.00	17.16	8.93	0.27	9.20	6,906.11	6906.33	4 - 14	Chinle/Alluvium Interface
MKTF-26	02/27/21	2.00	16.90	8.88	0.17	9.05	6,906.26	6906.40	4 - 14	Chinle/Alluvium Interface
MKTF-26	03/31/21	2.00	16.90	9.00	0.11	9.11	6,906.20	6906.29	4 - 14	Chinle/Alluvium Interface
MKTF-27	02/25/19	2.00	14.72	ND	0.00	3.75	6,914.15	NA	1 - 12	Chinle/Alluvium Interface
MKTF-27	05/06/19	2.00	14.72	ND	0.00	5.73	6,912.17	NA	1 - 12	Chinle/Alluvium Interface
MKTF-27	08/21/19	2.00	14.72	ND	0.00	5.66	6,912.24	NA	1 - 12	Chinle/Alluvium Interface
MKTF-27	10/30/19	2.00	14.72	ND	0.00	6.14	6,911.76	NA	1 - 12	Chinle/Alluvium Interface
MKTF-27	02/24/20	2.00	14.72	ND	0.00	3.61	6,914.29	NA	1 - 12	Chinle/Alluvium Interface
MKTF-27	06/30/20	2.00	14.72	ND	0.00	6.70	6,911.20	NA	1 - 12	Chinle/Alluvium Interface
MKTF-27	09/15/20	2.00	14.72	ND	0.00	6.21	6,911.69	NA	1 - 12	Chinle/Alluvium Interface
MKTF-27	11/10/20	2.00	14.72	ND	0.00	6.72	6,911.18	NA	1 - 12	Chinle/Alluvium Interface
MKTF-27	12/04/20	2.00	14.74	ND	0.00	6.47	6,911.43	NA	1 - 12	Chinle/Alluvium Interface

TABLE 2A. FLUID LEVEL MEASUREMENTS FOR WELLS MKTF-1 THROUGH MKTF-50
MARATHON PETROLEUM COMPANY, GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground-water Elevation (ft)	Corrected Water Table[1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
MKTF-27	01/28/21	2.00	14.74	ND	0.00	6.62	6,911.28	NA	1 - 12	Chinle/Alluvium Interface
MKTF-27	02/28/21	2.00	14.76	ND	0.00	5.51	6,912.39	NA	1 - 12	Chinle/Alluvium Interface
MKTF-27	03/31/21	2.00	14.76	ND	0.00	6.48	6,911.42	NA	1 - 12	Chinle/Alluvium Interface
MKTF-28	02/25/19	2.00	16.16	ND	0.00	4.91	6,916.61	NA	3 - 13	Chinle/Alluvium Interface
MKTF-28	05/06/19	2.00	16.16	ND	0.00	9.27	6,912.25	NA	3 - 13	Chinle/Alluvium Interface
MKTF-28	08/21/19	2.00	16.15	ND	0.00	3.82	6,917.70	NA	3 - 13	Chinle/Alluvium Interface
MKTF-28	10/22/19	2.00	16.13	ND	0.00	6.38	6,915.14	NA	3 - 13	Chinle/Alluvium Interface
MKTF-28	02/24/20	2.00	16.16	ND	0.00	4.53	6,916.99	NA	3 - 13	Chinle/Alluvium Interface
MKTF-28	06/30/20	2.00	16.16	ND	0.00	4.84	6,916.68	NA	3 - 13	Chinle/Alluvium Interface
MKTF-28	09/15/20	2.00	16.17	ND	0.00	4.59	6,916.93	NA	3 - 13	Chinle/Alluvium Interface
MKTF-28	11/10/20	2.00	16.17	ND	0.00	8.81	6,912.71	NA	3 - 13	Chinle/Alluvium Interface
MKTF-28	12/04/20	2.00	16.16	ND	0.00	7.13	6,914.39	NA	3 - 13	Chinle/Alluvium Interface
MKTF-28	01/28/21	2.00	16.16	ND	0.00	9.74	6,911.78	NA	3 - 13	Chinle/Alluvium Interface
MKTF-28	02/28/21	2.00	16.16	ND	0.00	8.18	6,913.34	NA	3 - 13	Chinle/Alluvium Interface
MKTF-28	03/31/21	2.00	16.16	ND	0.00	8.51	6,913.01	NA	3 - 13	Chinle/Alluvium Interface
MKTF-29	02/25/19	2.00	22.84	ND	0.00	3.73	6,897.89	NA	10 - 20	Chinle/Alluvium Interface
MKTF-29	05/06/19	2.00	22.84	ND	0.00	3.72	6,897.90	NA	10 - 20	Chinle/Alluvium Interface
MKTF-29	08/23/19	2.00	22.82	ND	0.00	5.83	6,895.79	NA	10 - 20	Chinle/Alluvium Interface
MKTF-29	10/22/19	2.00	22.80	ND	0.00	6.32	6,895.30	NA	10 - 20	Chinle/Alluvium Interface
MKTF-29	02/24/20	2.00	22.84	ND	0.00	4.49	6,897.13	NA	10 - 20	Chinle/Alluvium Interface
MKTF-29	06/26/20	2.00	22.84	ND	0.00	6.42	6,895.20	NA	10 - 20	Chinle/Alluvium Interface
MKTF-29	09/15/20	2.00	22.78	ND	0.00	8.01	6,893.61	NA	10 - 20	Chinle/Alluvium Interface
MKTF-29	11/10/20	2.00	22.78	ND	0.00	6.98	6,894.64	NA	10 - 20	Chinle/Alluvium Interface
MKTF-29	12/04/20	2.00	22.85	ND	0.00	6.40	6,895.22	NA	10 - 20	Chinle/Alluvium Interface
MKTF-29	01/28/21	2.00	22.85	ND	0.00	5.61	6,896.01	NA	10 - 20	Chinle/Alluvium Interface
MKTF-29	02/28/21	2.00	22.83	ND	0.00	5.31	6,896.31	NA	10 - 20	Chinle/Alluvium Interface
MKTF-29	03/31/21	2.00	22.83	ND	0.00	5.20	6,896.42	NA	10 - 20	Chinle/Alluvium Interface
MKTF-30	03/28/19	2.00	23.20	ND	0.00	13.68	6,887.12	NA	10 - 20	Chinle/Alluvium Interface
MKTF-30	05/06/19	2.00	23.20	ND	0.00	13.81	6,886.99	NA	10 - 20	Chinle/Alluvium Interface
MKTF-30	08/23/19	2.00	23.20	ND	0.00	14.88	6,885.92	NA	10 - 20	Chinle/Alluvium Interface
MKTF-30	10/22/19	2.00	23.19	ND	0.00	15.82	6,884.98	NA	10 - 20	Chinle/Alluvium Interface
MKTF-30	02/26/20	2.00	23.20	ND	0.00	15.31	6,885.49	NA	10 - 20	Chinle/Alluvium Interface
MKTF-30	06/26/20	2.00	23.20	ND	0.00	16.19	6,884.61	NA	10 - 20	Chinle/Alluvium Interface
MKTF-30	09/15/20	2.00	23.22	ND	0.00	16.66	6,884.14	NA	10 - 20	Chinle/Alluvium Interface
MKTF-30	11/10/20	2.00	23.22	ND	0.00	16.87	6,883.93	NA	10 - 20	Chinle/Alluvium Interface
MKTF-30	12/04/20	2.00	23.22	ND	0.00	16.76	6,884.04	NA	10 - 20	Chinle/Alluvium Interface
MKTF-30	01/28/21	2.00	23.22	ND	0.00	16.79	6,884.01	NA	10 - 20	Chinle/Alluvium Interface

TABLE 2A. FLUID LEVEL MEASUREMENTS FOR WELLS MKTF-1 THROUGH MKTF-50
MARATHON PETROLEUM COMPANY, GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground-water Elevation (ft)	Corrected Water Table[1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
MKTF-30	02/28/21	2.00	22.95	ND	0.00	16.33	6,884.47	NA	10 - 20	Chinle/Alluvium Interface
MKTF-30	03/31/21	2.00	22.95	ND	0.00	16.40	6,884.40	NA	10 - 20	Chinle/Alluvium Interface
MKTF-31	02/14/19	2.00	22.81	ND	0.00	8.25	6,898.62	NA	6 - 21	Chinle/Alluvium Interface
MKTF-31	05/06/19	2.00	22.81	ND	0.00	7.72	6,899.15	NA	6 - 21	Chinle/Alluvium Interface
MKTF-31	08/23/19	2.00	19.35	ND	0.00	8.30	6,898.57	NA	6 - 21	Chinle/Alluvium Interface
MKTF-31	10/22/19	2.00	19.30	ND	0.00	8.64	6,898.23	NA	6 - 21	Chinle/Alluvium Interface
MKTF-31	02/24/20	2.00	22.81	ND	0.00	8.10	6,898.77	NA	6 - 21	Chinle/Alluvium Interface
MKTF-31	06/26/20	2.00	22.81	ND	0.00	8.25	6,898.62	NA	6 - 21	Chinle/Alluvium Interface
MKTF-31	09/15/20	2.00	19.34	ND	0.00	8.75	6,898.12	NA	6 - 21	Chinle/Alluvium Interface
MKTF-31	11/10/20	2.00	19.34	ND	0.00	8.79	6,898.08	NA	6 - 21	Chinle/Alluvium Interface
MKTF-31	12/04/20	2.00	19.37	ND	0.00	8.73	6,898.14	NA	6 - 21	Chinle/Alluvium Interface
MKTF-31	01/28/21	2.00	13.37	ND	0.00	8.62	6,898.25	NA	6 - 21	Chinle/Alluvium Interface
MKTF-31	02/28/21	2.00	19.36	ND	0.00	8.53	6,898.34	NA	6 - 21	Chinle/Alluvium Interface
MKTF-31	03/31/21	2.00	19.36	ND	0.00	8.61	6,898.26	NA	6 - 21	Chinle/Alluvium Interface
MKTF-32	02/13/19	2.00	27.75	ND	0.00	13.49	6,897.62	NA	9 - 24	Chinle/Alluvium Interface
MKTF-32	05/07/19	2.00	27.75	ND	0.00	13.25	6,897.86	NA	9 - 24	Chinle/Alluvium Interface
MKTF-32	08/20/19	2.00	27.77	ND	0.00	14.03	6,897.08	NA	9- 24	Chinle/Alluvium Interface
MKTF-32	10/23/19	2.00	27.75	ND	0.00	14.01	6,897.10	NA	9 - 24	Chinle/Alluvium Interface
MKTF-32	02/26/20	2.00	27.75	ND	0.00	13.78	6,897.33	NA	9- 25	Chinle/Alluvium Interface
MKTF-32	06/29/20	2.00	27.75	ND	0.00	14.25	6,896.86	NA	10 - 24	Chinle/Alluvium Interface
MKTF-32	09/14/20	2.00	27.46	ND	0.00	14.58	6,896.53	NA	9- 26	Chinle/Alluvium Interface
MKTF-32	11/10/20	2.00	27.46	ND	0.00	14.31	6,896.80	NA	9- 26	Chinle/Alluvium Interface
MKTF-32	12/04/20	2.00	27.82	ND	0.00	14.25	6,896.86	NA	9- 26	Chinle/Alluvium Interface
MKTF-32	01/28/21	2.00	27.82	14.08	0.01	14.08	6,897.03	NA	9- 26	Chinle/Alluvium Interface
MKTF-32	02/27/21	2.00	27.79	14.01	0.01	14.02	6,897.09	NA	9- 26	Chinle/Alluvium Interface
MKTF-32	03/31/21	2.00	27.79	ND	0.00	14.11	6,897.00	NA	9- 26	Chinle/Alluvium Interface
MKTF-33	03/25/19	2.00	33.20	ND	0.00	22.00	6,917.75	NA	20 - 30	Chinle/Alluvium Interface
MKTF-33	05/09/19	2.00	33.20	ND	0.00	22.04	6,917.71	NA	20 - 30	Chinle/Alluvium Interface
MKTF-33	08/20/19	2.00	33.23	ND	0.00	22.35	6,917.40	NA	20 - 30	Chinle/Alluvium Interface
MKTF-33	10/24/19	2.00	33.22	ND	0.00	22.50	6,917.25	NA	20 - 30	Chinle/Alluvium Interface
MKTF-33	02/27/20	2.00	33.20	ND	0.00	22.71	6,917.04	NA	20 - 30	Chinle/Alluvium Interface
MKTF-33	06/29/20	2.00	33.20	ND	0.00	21.17	6,918.58	NA	20 - 30	Chinle/Alluvium Interface
MKTF-33	09/14/20	2.00	33.15	21.61	6.41	28.02	6,911.73	6916.86	20 - 30	Chinle/Alluvium Interface
MKTF-33	11/10/20	2.00	33.15	21.65	6.16	27.81	6,911.94	6916.87	20 - 30	Chinle/Alluvium Interface
MKTF-33	12/04/20	2.00	33.57	21.69	6.08	27.77	6,911.98	6916.84	20 - 30	Chinle/Alluvium Interface
MKTF-33	01/28/21	2.00	33.57	22.58	3.38	25.96	6,913.79	6916.49	20 - 30	Chinle/Alluvium Interface
MKTF-33	02/27/21	2.00	33.28	23.00	0.75	23.75	6,916.00	6916.60	20 - 30	Chinle/Alluvium Interface

TABLE 2A. FLUID LEVEL MEASUREMENTS FOR WELLS MKTF-1 THROUGH MKTF-50
MARATHON PETROLEUM COMPANY, GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground-water Elevation (ft)	Corrected Water Table[1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
MKTF-33	03/30/21	2.00	33.28	23.19	0.22	23.41	6,916.34	6916.52	20 - 30	Chinle/Alluvium Interface
MKTF-34	03/25/19	2.00	27.68	ND	0.00	16.95	6,928.40	NA	9 - 24	Chinle/Alluvium Interface
MKTF-34	05/09/19	2.00	27.68	ND	0.00	18.09	6,927.26	NA	9 - 24	Chinle/Alluvium Interface
MKTF-34	08/19/19	2.00	27.70	ND	0.00	17.70	6,927.65	NA	9 - 24	Chinle/Alluvium Interface
MKTF-34	10/29/19	2.00	27.70	ND	0.00	18.03	6,927.32	NA	9 - 24	Chinle/Alluvium Interface
MKTF-34	11/12/19	2.00	27.70	ND	0.00	18.06	6,927.29	NA	9 - 24	Chinle/Alluvium Interface
MKTF-34	02/05/20	2.00	27.70	ND	0.00	17.78	6,927.57	NA	9 - 24	Chinle/Alluvium Interface
MKTF-34	06/29/20	2.00	27.70	19.04	0.02	19.06	6,926.29	6926.31	9 - 24	Chinle/Alluvium Interface
MKTF-34	09/14/20	2.00	27.76	ND	0.00	19.09	6,926.26	NA	9 - 24	Chinle/Alluvium Interface
MKTF-34	11/10/20	2.00	27.76	ND	0.00	19.08	6,926.27	NA	9 - 24	Chinle/Alluvium Interface
MKTF-34	12/04/20	2.00	27.78	18.91	0.01	18.92	6,926.43	6,926.44	9 - 24	Chinle/Alluvium Interface
MKTF-34	01/28/21	2.00	27.80	ND	0.00	19.39	6,925.96	NA	9 - 24	Chinle/Alluvium Interface
MKTF-34	02/28/21	2.00	27.79	18.40	0.01	18.41	6,926.94	6,926.95	9 - 24	Chinle/Alluvium Interface
MKTF-34	03/31/21	2.00	27.79	ND	0.00	20.61	6,924.74	6,924.74	9 - 24	Chinle/Alluvium Interface
MKTF-35	03/25/19	2.00	16.45	ND	0.00	8.54	6,943.11	NA	6 - 16	Chinle/Alluvium Interface
MKTF-35	05/16/19	2.00	16.45	ND	0.00	8.49	6,943.16	NA	6 - 16	Chinle/Alluvium Interface
MKTF-35	08/19/19	2.00	16.48	ND	0.00	8.09	6,943.56	NA	6 - 16	Chinle/Alluvium Interface
MKTF-35	10/28/19	2.00	16.45	ND	0.00	8.42	6,943.23	NA	6 - 16	Chinle/Alluvium Interface
MKTF-35	10/29/19	2.00	16.45	ND	0.00	8.40	6,943.25	NA	6 - 16	Chinle/Alluvium Interface
MKTF-35	11/12/19	2.00	16.45	ND	0.00	8.60	6,943.05	NA	6 - 16	Chinle/Alluvium Interface
MKTF-35	02/05/20	2.00	16.45	ND	0.00	9.28	6,942.37	NA	6 - 16	Chinle/Alluvium Interface
MKTF-35	06/30/20	2.00	16.45	ND	0.00	9.25	6,942.40	NA	6 - 16	Chinle/Alluvium Interface
MKTF-35	09/14/20	2.00	16.23	ND	0.00	8.59	6,943.06	NA	6 - 16	Chinle/Alluvium Interface
MKTF-35	11/10/20	2.00	16.23	ND	0.00	8.86	6,942.79	NA	6 - 16	Chinle/Alluvium Interface
MKTF-35	12/04/20	2.00	16.39	9.02	0.01	9.03	6,942.62	6,942.63	6 - 16	Chinle/Alluvium Interface
MKTF-35	01/28/21	2.00	16.39	ND	0.00	9.46	6,942.19	NA	6 - 16	Chinle/Alluvium Interface
MKTF-35	02/28/21	2.00	16.55	ND	0.00	9.17	6,942.48	NA	6 - 16	Chinle/Alluvium Interface
MKTF-35	03/31/21	2.00	16.55	ND	0.00	9.50	6,942.15	NA	6 - 16	Chinle/Alluvium Interface
MKTF-36	03/25/19	2.00	NM	NM	0.00	NM	NA	NA	5 - 15	Chinle/Alluvium Interface
MKTF-36	05/14/19	2.00	NM	NM	0.00	NM	NA	NA	5 - 15	Chinle/Alluvium Interface
MKTF-36	08/19/19	2.00	NM	NM	0.00	NM	NA	NA	5 - 15	Chinle/Alluvium Interface
MKTF-36	11/06/19	2.00	15.40	5.08	5.25	10.33	6,939.79	6,943.99	5 - 15	Chinle/Alluvium Interface
MKTF-36	11/07/19	2.00	15.61	4.30	5.91	10.21	6,943.30	6,948.03	5 - 15	Chinle/Alluvium Interface
MKTF-36	11/12/19	2.00	15.61	6.80	2.85	9.65	6,943.86	6,946.14	5 - 15	Chinle/Alluvium Interface
MKTF-36	11/13/19	2.00	15.61	6.95	2.45	9.40	6,944.11	6,946.07	5 - 15	Chinle/Alluvium Interface
MKTF-36	11/14/19	2.00	15.61	7.14	2.47	9.61	6,943.90	6,945.88	5 - 15	Chinle/Alluvium Interface
MKTF-36	11/15/19	2.00	15.61	7.31	2.15	9.46	6,944.05	6,945.77	5 - 15	Chinle/Alluvium Interface

TABLE 2A. FLUID LEVEL MEASUREMENTS FOR WELLS MKTF-1 THROUGH MKTF-50
MARATHON PETROLEUM COMPANY, GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground-water Elevation (ft)	Corrected Water Table[1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
MKTF-36	11/19/19	2.00	15.61	7.80	1.18	8.98	6,944.53	6,945.47	5 - 15	Chinle/Alluvium Interface
MKTF-36	11/21/19	2.00	15.61	8.00	0.78	8.78	6,944.73	6,945.35	5 - 15	Chinle/Alluvium Interface
MKTF-36	12/02/19	2.00	15.61	8.25	0.70	8.95	6,944.56	6,945.12	5 - 15	Chinle/Alluvium Interface
MKTF-36	02/03/20	2.00	15.61	7.89	0.55	8.44	6,945.07	6945.51	5 - 15	Chinle/Alluvium Interface
MKTF-36	06/30/20	2.00	15.61	8.04	0.21	8.25	6,945.26	6945.43	5 - 15	Chinle/Alluvium Interface
MKTF-36	09/14/20	2.00	15.58	ND	0.00	7.87	6,945.64	NA	5 - 15	Chinle/Alluvium Interface
MKTF-36	11/10/20	2.00	15.58	7.98	0.05	8.03	6,945.48	6945.52	5 - 15	Chinle/Alluvium Interface
MKTF-36	12/04/20	2.00	15.58	8.10	0.07	8.17	6,945.34	6945.40	5 - 15	Chinle/Alluvium Interface
MKTF-36	01/28/21	2.00	15.58	8.13	0.05	8.18	6,945.33	6945.37	5 - 15	Chinle/Alluvium Interface
MKTF-36	02/28/21	2.00	15.58	8.26	0.01	8.27	6,945.24	6945.25	5 - 15	Chinle/Alluvium Interface
MKTF-36	03/31/21	2.00	15.58	ND	0.00	8.36	6,945.15	6945.15	5 - 15	Chinle/Alluvium Interface
MKTF-37	03/25/19	2.00	24.60	ND	0.00	8.39	6,950.48	NA	4 - 24	Chinle/Alluvium Interface
MKTF-37	05/16/19	2.00	24.60	9.10	0.08	9.18	6,949.69	6,949.75	4 - 24	Chinle/Alluvium Interface
MKTF-37	08/23/19	2.00	24.59	8.85	0.02	8.87	6,950.00	6,950.02	4 - 24	Chinle/Alluvium Interface
MKTF-37	10/28/19	2.00	24.60	9.30	0.03	9.33	6,949.54	6,949.56	4 - 24	Chinle/Alluvium Interface
MKTF-37	10/29/19	2.00	24.60	9.17	0.03	9.20	6,949.67	6,949.69	4 - 24	Chinle/Alluvium Interface
MKTF-37	11/12/19	2.00	24.60	9.52	0.04	9.56	6,949.31	6,949.34	4 - 24	Chinle/Alluvium Interface
MKTF-37	02/03/20	2.00	24.60	9.77	0.12	9.89	6,948.98	6949.08	4 - 24	Chinle/Alluvium Interface
MKTF-37	06/30/20	2.00	24.60	9.61	0.02	9.63	6,949.24	6949.26	4 - 24	Chinle/Alluvium Interface
MKTF-37	09/14/20	2.00	24.54	ND	0.00	8.76	6,950.11	NA	4 - 24	Chinle/Alluvium Interface
MKTF-37	11/10/20	2.00	24.54	9.36	0.01	9.37	6,949.50	6949.51	4 - 24	Chinle/Alluvium Interface
MKTF-37	12/04/20	2.00	24.61	9.64	0.01	9.65	6,949.22	6949.23	4 - 24	Chinle/Alluvium Interface
MKTF-37	01/28/21	2.00	24.61	9.64	0.01	9.65	6,949.22	6949.23	4 - 24	Chinle/Alluvium Interface
MKTF-37	02/28/21	2.00	24.67	9.65	0.02	9.67	6,949.20	6949.22	4 - 24	Chinle/Alluvium Interface
MKTF-37	03/31/21	2.00	24.67	9.83	0.02	9.85	6,949.02	6949.04	4 - 24	Chinle/Alluvium Interface
MKTF-38	03/26/19	2.00	20.29	ND	0.00	11.30	6,943.59	NA	5 - 20	Chinle/Alluvium Interface
MKTF-38	05/14/19	2.00	20.29	ND	0.00	8.66	6,946.23	NA	5 - 20	Chinle/Alluvium Interface
MKTF-38	06/27/19	2.00	20.29	ND	0.00	8.75	6,946.14	NA	5 - 20	Chinle/Alluvium Interface
MKTF-38	08/20/19	2.00	20.27	ND	0.00	8.77	6,946.12	NA	5 - 20	Chinle/Alluvium Interface
MKTF-38	12/03/19	2.00	20.29	ND	0.00	9.50	6,945.39	NA	5 - 20	Chinle/Alluvium Interface
MKTF-38	03/04/20	2.00	20.31	ND	0.00	9.61	6,945.28	NA	5 - 20	Chinle/Alluvium Interface
MKTF-38	06/26/20	2.00	20.33	ND	0.00	9.38	6,945.51	NA	5 - 20	Chinle/Alluvium Interface
MKTF-38	09/14/20	2.00	20.18	ND	0.00	8.55	6,946.34	NA	5 - 20	Chinle/Alluvium Interface
MKTF-38	11/10/20	2.00	20.18	ND	0.00	9.12	6,945.77	NA	5 - 20	Chinle/Alluvium Interface
MKTF-38	12/04/20	2.00	21.30	9.35	0.01	9.36	6,945.53	6,945.54	5 - 20	Chinle/Alluvium Interface
MKTF-38	02/28/21	2.00	21.30	ND	0.00	9.22	6,945.67	NA	5 - 20	Chinle/Alluvium Interface
MKTF-38	02/28/21	2.00	20.34	ND	0.00	9.17	6,945.72	NA	5 - 20	Chinle/Alluvium Interface
MKTF-38	03/31/21	2.00	20.34	ND	0.00	9.30	6,945.59	NA	5 - 20	Chinle/Alluvium Interface

TABLE 2A. FLUID LEVEL MEASUREMENTS FOR WELLS MKTF-1 THROUGH MKTF-50
MARATHON PETROLEUM COMPANY, GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground-water Elevation (ft)	Corrected Water Table[1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
MKTF-39	03/28/19	2.00	15.20	NM	0.00	NM	NA	NA	5 - 15	Chinle/Alluvium Interface
MKTF-39	06/05/19	2.00	15.20	ND	0.00	8.69	6,945.06	NA	5 - 15	Chinle/Alluvium Interface
MKTF-39	08/20/19	2.00	15.20	ND	0.00	9.04	6,944.71	NA	5 - 15	Chinle/Alluvium Interface
MKTF-39	11/04/19	2.00	15.18	ND	0.00	9.59	6,944.16	NA	5 - 15	Chinle/Alluvium Interface
MKTF-39	02/03/20	2.00	15.20	ND	0.00	10.10	6,943.65	NA	5 - 15	Chinle/Alluvium Interface
MKTF-39	06/26/20	2.00	15.00	ND	0.00	9.63	6,944.12	NA	5 - 15	Chinle/Alluvium Interface
MKTF-39	09/15/20	2.00	14.19	ND	0.00	9.58	6,944.17	NA	5 - 15	Chinle/Alluvium Interface
MKTF-39	11/10/20	2.00	14.19	ND	0.00	10.05	6,943.70	NA	5 - 15	Chinle/Alluvium Interface
MKTF-39	12/04/20	2.00	15.19	ND	0.00	10.15	6,943.70	NA	5 - 15	Chinle/Alluvium Interface
MKTF-39	01/28/21	2.00	15.19	9.45	2.13	11.58	6,942.17	6,943.87	5 - 15	Chinle/Alluvium Interface
MKTF-39	02/28/21	2.00	15.21	9.31	0.71	10.02	6,943.73	6,944.30	5 - 15	Chinle/Alluvium Interface
MKTF-39	03/31/21	2.00	15.21	9.38	0.82	10.20	6,943.55	6,944.21	5 - 15	Chinle/Alluvium Interface
MKTF-40	02/20/19	2.00	23.64	ND	0.00	12.79	6,881.54	NA	5 - 20	Chinle/Alluvium Interface
MKTF-40	05/06/19	2.00	23.64	ND	0.00	12.36	6,881.97	NA	5 - 20	Chinle/Alluvium Interface
MKTF-40	08/22/19	2.00	23.54	ND	0.00	12.15	6,882.18	NA	5 - 20	Chinle/Alluvium Interface
MKTF-40	10/22/19	2.00	23.62	ND	0.00	13.04	6,881.29	NA	5 - 20	Chinle/Alluvium Interface
MKTF-40	02/27/20	2.00	23.64	ND	0.00	13.23	6,881.10	NA	5 - 20	Chinle/Alluvium Interface
MKTF-40	06/26/20	2.00	23.64	ND	0.00	12.75	6,881.58	NA	5 - 20	Chinle/Alluvium Interface
MKTF-40	09/15/20	2.00	23.66	ND	0.00	13.39	6,880.94	NA	5 - 20	Chinle/Alluvium Interface
MKTF-40	11/10/20	2.00	23.66	ND	0.00	13.71	6,880.62	NA	5 - 20	Chinle/Alluvium Interface
MKTF-40	12/04/20	2.00	23.67	ND	0.00	13.99	6,880.34	NA	5 - 20	Chinle/Alluvium Interface
MKTF-40	01/28/21	2.00	23.68	ND	0.00	14.22	6,880.11	NA	5 - 20	Chinle/Alluvium Interface
MKTF-40	02/28/21	2.00	23.66	ND	0.00	14.17	6,880.16	NA	5 - 20	Chinle/Alluvium Interface
MKTF-40	03/31/21	2.00	23.66	ND	0.00	14.65	6,879.68	NA	5 - 20	Chinle/Alluvium Interface
MKTF-41	02/13/19	2.00	40.10	ND	0.00	20.10	6,873.54	NA	22 - 37	Chinle/Alluvium Interface
MKTF-41	05/07/19	2.00	40.10	ND	0.00	19.52	6,874.12	NA	22 - 37	Chinle/Alluvium Interface
MKTF-41	08/22/19	2.00	39.74	ND	0.00	19.55	6,874.09	NA	22 - 37	Chinle/Alluvium Interface
MKTF-41	10/23/19	2.00	39.71	ND	0.00	20.02	6,873.62	NA	22 - 37	Chinle/Alluvium Interface
MKTF-41	02/26/20	2.00	40.10	ND	0.00	20.15	6,873.49	NA	22 - 37	Chinle/Alluvium Interface
MKTF-41	06/29/20	2.00	40.10	ND	0.00	19.77	6,873.87	NA	22 - 37	Chinle/Alluvium Interface
MKTF-41	09/14/20	2.00	39.66	ND	0.00	20.72	6,872.92	NA	22 - 37	Chinle/Alluvium Interface
MKTF-41	11/10/20	2.00	39.66	ND	0.00	21.01	6,872.63	NA	22 - 37	Chinle/Alluvium Interface
MKTF-41	12/04/20	2.00	39.80	ND	0.00	20.90	6,872.74	NA	22 - 37	Chinle/Alluvium Interface
MKTF-41	01/28/21	2.00	39.94	ND	0.00	21.21	6,872.43	NA	22 - 37	Chinle/Alluvium Interface
MKTF-41	02/27/21	2.00	39.85	ND	0.00	21.11	6,872.53	NA	22 - 37	Chinle/Alluvium Interface
MKTF-41	03/31/21	2.00	39.85	ND	0.00	21.41	6,872.23	NA	22 - 37	Chinle/Alluvium Interface

TABLE 2A. FLUID LEVEL MEASUREMENTS FOR WELLS MKTF-1 THROUGH MKTF-50
MARATHON PETROLEUM COMPANY, GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground-water Elevation (ft)	Corrected Water Table[1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
MKTF-42	02/13/19	2.00	33.15	ND	0.00	17.18	6,875.77	NA	10 - 30	Chinle/Alluvium Interface
MKTF-42	05/07/19	2.00	33.15	ND	0.00	16.68	6,876.27	NA	10 - 30	Chinle/Alluvium Interface
MKTF-42	08/22/19	2.00	33.20	ND	0.00	16.40	6,876.55	NA	10 - 30	Chinle/Alluvium Interface
MKTF-42	10/23/19	2.00	33.18	ND	0.00	16.52	6,876.43	NA	10 - 30	Chinle/Alluvium Interface
MKTF-42	02/26/20	2.00	33.15	ND	0.00	16.79	6,876.16	NA	10 - 30	Chinle/Alluvium Interface
MKTF-42	06/30/20	2.00	33.15	ND	0.00	16.25	6,876.70	NA	10 - 30	Chinle/Alluvium Interface
MKTF-42	09/14/20	2.00	33.10	ND	0.00	16.35	6,876.60	NA	10 - 30	Chinle/Alluvium Interface
MKTF-42	11/10/20	2.00	33.10	ND	0.00	15.30	6,877.65	NA	10 - 30	Chinle/Alluvium Interface
MKTF-42	12/04/20	2.00	32.95	ND	0.00	16.41	6,876.54	NA	10 - 30	Chinle/Alluvium Interface
MKTF-42	01/28/21	2.00	32.95	ND	0.00	16.85	6,876.10	NA	10 - 30	Chinle/Alluvium Interface
MKTF-42	02/27/21	2.00	33.24	ND	0.00	16.83	6,876.12	NA	10 - 30	Chinle/Alluvium Interface
MKTF-42	03/31/21	2.00	33.24	ND	0.00	17.17	6,875.78	NA	10 - 30	Chinle/Alluvium Interface
MKTF-43	02/13/19	2.00	15.43	ND	0.00	5.99	6,870.91	NA	2 - 12	Chinle/Alluvium Interface
MKTF-43	05/08/19	2.00	15.43	ND	0.00	3.97	6,872.93	NA	2 - 12	Chinle/Alluvium Interface
MKTF-43	08/22/19	2.00	15.41	ND	0.00	3.67	6,873.23	NA	2 - 12	Chinle/Alluvium Interface
MKTF-43	10/24/19	2.00	15.38	ND	0.00	4.34	6,872.56	NA	2 - 12	Chinle/Alluvium Interface
MKTF-43	02/26/20	2.00	15.43	ND	0.00	6.33	6,870.57	NA	2 - 12	Chinle/Alluvium Interface
MKTF-43	06/30/20	2.00	15.43	ND	0.00	5.50	6,871.40	NA	2 - 12	Chinle/Alluvium Interface
MKTF-43	09/14/20	2.00	16.22	ND	0.00	6.45	6,870.45	NA	2 - 12	Chinle/Alluvium Interface
MKTF-43	11/10/20	2.00	16.22	ND	0.00	7.48	6,869.42	NA	2 - 12	Chinle/Alluvium Interface
MKTF-43	12/04/20	2.00	16.92	ND	0.00	8.12	6,868.78	NA	2 - 12	Chinle/Alluvium Interface
MKTF-43	01/28/21	2.00	16.92	ND	0.00	8.69	6,868.21	NA	2 - 12	Chinle/Alluvium Interface
MKTF-43	02/27/21	2.00	16.95	ND	0.00	8.67	6,868.23	NA	2 - 12	Chinle/Alluvium Interface
MKTF-43	03/31/21	2.00	16.95	ND	0.00	8.49	6,868.41	NA	2 - 12	Chinle/Alluvium Interface
MKTF-44	02/13/19	2.00	51.15	ND	0.00	33.39	6,836.56	NA	38 - 48	Chinle/Alluvium Interface
MKTF-44	05/08/19	2.00	51.15	ND	0.00	34.20	6,835.75	NA	38 - 48	Chinle/Alluvium Interface
MKTF-44	08/22/19	2.00	51.20	ND	0.00	30.96	6,838.99	NA	38 - 48	Chinle/Alluvium Interface
MKTF-44	10/24/19	2.00	51.16	ND	0.00	38.54	6,831.41	NA	38 - 48	Chinle/Alluvium Interface
MKTF-44	03/04/20	2.00	51.15	ND	0.00	30.34	6,839.61	NA	38 - 48	Chinle/Alluvium Interface
MKTF-44	06/26/20	2.00	51.15	ND	0.00	33.08	6,836.87	NA	38 - 48	Chinle/Alluvium Interface
MKTF-44	09/14/20	2.00	51.95	ND	0.00	28.00	6,841.95	NA	38 - 48	Chinle/Alluvium Interface
MKTF-44	12/04/20	2.00	51.39	ND	0.00	39.59	6,830.36	NA	38 - 48	Chinle/Alluvium Interface
MKTF-44	02/28/21	2.00	51.50	ND	0.00	38.50	6,831.45	NA	38 - 48	Chinle/Alluvium Interface
MKTF-44	03/31/21	2.00	51.50	ND	0.00	45.28	6,824.67	NA	38 - 48	Chinle/Alluvium Interface
MKTF-45	03/26/19	4.00	30.24	12.00	0.50	12.50	6,937.09	6,937.49	Unknown	Chinle/Alluvium Interface
MKTF-45	05/14/19	4.00	30.24	12.43	0.59	13.02	6,936.57	6,937.04	Unknown	Chinle/Alluvium Interface
MKTF-45	08/19/19	4.00	30.33	14.02	0.46	14.48	6,935.11	6,935.48	Unknown	Chinle/Alluvium Interface

TABLE 2A. FLUID LEVEL MEASUREMENTS FOR WELLS MKTF-1 THROUGH MKTF-50
MARATHON PETROLEUM COMPANY, GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground-water Elevation (ft)	Corrected Water Table[1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
MKTF-45	10/28/19	4.00	30.24	11.97	1.03	13.00	6,936.59	6,937.41	Unknown	Chinle/Alluvium Interface
MKTF-45	10/29/19	4.00	30.24	11.38	2.37	13.75	6,935.84	6,937.74	Unknown	Chinle/Alluvium Interface
MKTF-45	10/31/18	4.00	30.24	10.66	6.24	16.90	6,932.69	6,937.68	Unknown	Chinle/Alluvium Interface
MKTF-45	11/06/19	4.00	30.24	9.57	12.95	22.52	6,927.07	6,937.43	Unknown	Chinle/Alluvium Interface
MKTF-45	11/07/19	4.00	30.24	9.00	13.25	22.25	6,927.34	6,937.94	Unknown	Chinle/Alluvium Interface
MKTF-45	11/11/19	4.00	30.24	8.75	14.85	23.60	6,925.99	6,937.87	Unknown	Chinle/Alluvium Interface
MKTF-45	11/12/19	4.00	30.24	9.62	14.30	23.92	6,925.67	6,937.11	Unknown	Chinle/Alluvium Interface
MKTF-45	11/13/19	4.00	30.24	9.70	16.23	25.93	6,923.66	6,936.64	Unknown	Chinle/Alluvium Interface
MKTF-45	11/14/19	4.00	30.24	10.06	15.23	25.29	6,924.30	6,936.48	Unknown	Chinle/Alluvium Interface
MKTF-45	11/15/19	4.00	30.24	10.28	14.29	24.57	6,925.02	6,936.45	Unknown	Chinle/Alluvium Interface
MKTF-45	11/19/19	4.00	30.24	10.84	11.91	22.75	6,926.84	6,936.37	Unknown	Chinle/Alluvium Interface
MKTF-45	11/21/19	4.00	30.24	11.00	10.90	21.90	6,927.69	6,936.41	Unknown	Chinle/Alluvium Interface
MKTF-45	12/02/19	4.00	30.24	12.38	6.57	18.95	6,930.64	6,935.90	Unknown	Chinle/Alluvium Interface
MKTF-45	02/03/20	4.00	30.24	9.60	9.02	18.62	6,930.97	6938.19	Unknown	Chinle/Alluvium Interface
MKTF-45	06/30/20	4.00	30.24	11.08	8.00	19.08	6,930.51	6936.91	Unknown	Chinle/Alluvium Interface
MKTF-45	09/14/20	4.00	37.45	13.14	5.29	18.43	6,931.16	6935.39	Unknown	Chinle/Alluvium Interface
MKTF-45	11/10/20	4.00	37.45	12.94	1.82	14.76	6,934.83	6936.29	Unknown	Chinle/Alluvium Interface
MKTF-45	12/04/20	4.00	30.45	12.66	1.85	14.51	6,935.08	6936.56	Unknown	Chinle/Alluvium Interface
MKTF-45	01/28/21	4.00	30.45	16.00	0.13	16.13	6,933.46	6933.56	Unknown	Chinle/Alluvium Interface
MKTF-45	02/27/21	4.00	30.50	13.55	0.01	13.56	6,936.03	6936.04	Unknown	Chinle/Alluvium Interface
MKTF-45	03/30/21	4.00	30.50	15.40	0.20	15.60	6,933.99	6934.15	Unknown	Chinle/Alluvium Interface
MKTF-46	10/29/19	2.00	21.29	ND	0.00	10.28	6,947.32	NA	3 - 18	Chinle/Alluvium Interface
MKTF-46	11/12/19	2.00	21.29	ND	0.00	10.46	6,947.14	NA	3 - 18	Chinle/Alluvium Interface
MKTF-46	12/02/19	2.00	21.29	ND	0.00	10.70	6,946.90	NA	3 - 18	Chinle/Alluvium Interface
MKTF-46	03/05/20	2.00	18.00	ND	0.00	10.93	6,946.67	NA	3 - 18	Chinle/Alluvium Interface
MKTF-46	06/30/20	2.00	18.00	ND	0.00	11.08	6,946.52	NA	3 - 18	Chinle/Alluvium Interface
MKTF-46	09/14/20	2.00	25.29	ND	0.00	10.18	6,947.42	NA	3 - 18	Chinle/Alluvium Interface
MKTF-46	11/10/20	2.00	25.29	ND	0.00	10.57	6,947.03	NA	3 - 18	Chinle/Alluvium Interface
MKTF-46	12/04/20	2.00	21.30	ND	0.00	10.77	6,946.83	NA	3 - 18	Chinle/Alluvium Interface
MKTF-46	01/28/21	2.00	21.30	ND	0.00	11.32	6,946.28	NA	3 - 18	Chinle/Alluvium Interface
MKTF-46	02/27/21	2.00	21.30	ND	0.00	10.82	6,946.78	NA	3 - 18	Chinle/Alluvium Interface
MKTF-46	03/31/21	2.00	21.30	ND	0.00	10.90	6,946.70	NA	3 - 18	Chinle/Alluvium Interface
MKTF-47	12/02/19	2.00	14.30	ND	0.00	9.78	6,949.31	NA	4 - 14	Chinle/Alluvium Interface
MKTF-47	03/05/20	2.00	14.00	ND	0.00	9.89	6,949.20	NA	4 - 14	Chinle/Alluvium Interface
MKTF-47	06/29/20	2.00	14.00	ND	0.00	9.50	6,949.59	NA	4 - 14	Chinle/Alluvium Interface
MKTF-47	09/15/20	2.00	14.31	8.53	0.01	8.54	6,950.55	6950.56	4 - 14	Chinle/Alluvium Interface
MKTF-47	11/10/20	2.00	14.31	ND	0.00	9.33	6,949.76	NA	4 - 14	Chinle/Alluvium Interface
MKTF-47	12/04/20	2.00	14.31	9.58	0.01	9.59	6,949.50	NA	4 - 14	Chinle/Alluvium Interface

TABLE 2A. FLUID LEVEL MEASUREMENTS FOR WELLS MKTF-1 THROUGH MKTF-50
MARATHON PETROLEUM COMPANY, GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground-water Elevation (ft)	Corrected Water Table[1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
MKTF-47	01/28/21	2.00	14.31	ND	0.00	9.34	6,949.75	NA	4 - 14	Chinle/Alluvium Interface
MKTF-47	02/27/21	2.00	14.30	ND	0.00	9.15	6,949.94	NA	4 - 14	Chinle/Alluvium Interface
MKTF-47	03/31/21	2.00	14.30	ND	0.00	DRY	NA	NA	4 - 14	Chinle/Alluvium Interface
MKTF-48	12/02/19	2.00	20.92	ND	0.00	11.85	6,949.88	NA	2 - 17	Chinle/Alluvium Interface
MKTF-48	03/03/20	2.00	18.00	12.66	0.16	12.82	6,948.91	6949.04	2 - 17	Chinle/Alluvium Interface
MKTF-48	06/29/20	2.00	18.00	ND	0.00	11.58	6,950.15	NA	2 - 17	Chinle/Alluvium Interface
MKTF-48	09/15/20	2.00	19.91	11.85	0.01	11.86	6,949.87	6949.88	2 - 17	Chinle/Alluvium Interface
MKTF-48	11/10/20	2.00	19.91	12.40	0.11	12.51	6,949.22	6949.31	2 - 17	Chinle/Alluvium Interface
MKTF-48	12/04/20	2.00	20.94	12.77	0.33	13.10	6,948.63	6948.89	2 - 17	Chinle/Alluvium Interface
MKTF-48	01/28/21	2.00	21.97	12.19	0.01	12.20	6,949.53	6949.54	2 - 17	Chinle/Alluvium Interface
MKTF-48	02/27/21	2.00	20.95	12.19	0.06	12.25	6,949.48	6949.53	2 - 17	Chinle/Alluvium Interface
MKTF-48	03/31/21	2.00	20.95	12.41	0.24	12.65	6,949.08	6949.27	2 - 17	Chinle/Alluvium Interface
MKTF-49	12/03/19	2.00	24.90	ND	0.00	19.90	6,926.86	NA	5 - 25	Chinle/Alluvium Interface
MKTF-49	03/04/20	2.00	28.00	ND	0.00	20.27	6,926.49	NA	5 - 25	Chinle/Alluvium Interface
MKTF-49	06/30/20	2.00	28.00	ND	0.00	20.65	6,926.11	NA	5 - 25	Chinle/Alluvium Interface
MKTF-49	09/15/20	2.00	24.96	ND	0.00	20.33	6,926.43	NA	5 - 25	Chinle/Alluvium Interface
MKTF-49	11/10/20	2.00	24.96	ND	0.00	20.75	6,926.01	NA	5 - 25	Chinle/Alluvium Interface
MKTF-49	12/04/20	2.00	24.97	ND	0.00	20.81	6,925.95	NA	5 - 25	Chinle/Alluvium Interface
MKTF-49	01/28/21	2.00	24.98	ND	0.00	21.05	6,925.71	NA	5 - 25	Chinle/Alluvium Interface
MKTF-49	02/28/21	2.00	25.02	ND	0.00	21.05	6,925.71	NA	5 - 25	Chinle/Alluvium Interface
MKTF-49	03/31/21	2.00	25.02	ND	0.00	21.15	6,925.61	NA	5 - 25	Chinle/Alluvium Interface
MKTF-50	12/03/19	2.00	21.65	ND	0.00	15.61	6,927.21	NA	3 - 18	Chinle/Alluvium Interface
MKTF-50	03/04/20	2.00	26.00	ND	0.00	15.87	6,926.95	NA	3 - 18	Chinle/Alluvium Interface
MKTF-50	06/30/20	2.00	26.00	ND	0.00	16.00	6,926.82	NA	3 - 18	Chinle/Alluvium Interface
MKTF-50	09/15/20	2.00	22.64	15.36	0.01	15.37	6,927.45	6927.46	3 - 18	Chinle/Alluvium Interface
MKTF-50	11/10/20	2.00	22.64	ND	0.00	16.03	6,926.79	NA	3 - 18	Chinle/Alluvium Interface
MKTF-50	12/04/20	2.00	21.63	ND	0.00	16.17	6,926.65	NA	3 - 18	Chinle/Alluvium Interface
MKTF-50	01/28/21	2.00	20.62	ND	0.00	16.43	6,926.39	NA	3 - 18	Chinle/Alluvium Interface
MKTF-50	02/28/21	2.00	21.70	ND	0.00	16.38	6,926.44	NA	3 - 18	Chinle/Alluvium Interface
MKTF-50	03/31/21	2.00	21.70	ND	0.00	16.48	6,926.34	NA	3 - 18	Chinle/Alluvium Interface

Notes:
NA = Not Applicable
Negative number in Stick up Length column indicates well is flushmount and located at or below ground level.
Depth to Water Column - if 0.00 is indicated - means water is at top of casing (full) under artesian flow conditions.
Dry indicates no water was detected.

TABLE 2B. FLUID LEVEL MEASUREMENTS FOR NON MKTF WELLS
MARATHON PETROLEUM COMPANY, GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground water Elevation (ft)	Corrected Water Table [1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
GWM-1	03/28/19	2.00	26.20	21.59	0.48	22.07	6,890.54	6890.92	17.5 - 23.5	Chinle/Alluvial Interface
GWM-1	05/08/19	2.00	26.20	21.32	0.29	21.61	6,891.00	6891.23	17.5 - 23.5	Chinle/Alluvial Interface
GWM-1	08/06/19	2.00	26.42	20.77	0.13	20.90	6,891.71	6891.81	17.5 - 23.5	Chinle/Alluvial Interface
GWM-1	10/21/19	2.00	26.20	20.64	0.19	20.83	6,891.78	6891.93	17.5 - 23.5	Chinle/Alluvial Interface
GWM-1	09/15/20	2.00	26.65	20.73	0.67	21.40	6,891.21	6891.75	17.5 - 23.5	Chinle/Alluvial Interface
GWM-1	11/09/20	2.00	26.65	20.88	0.84	21.72	6,890.89	6891.56	17.5 - 23.5	Chinle/Alluvial Interface
GWM-1	12/07/20	2.00	26.45	20.91	0.94	21.85	6,890.89	6891.56	17.5 - 23.5	Chinle/Alluvial Interface
GWM-1	01/28/21	2.00	26.25	21.10	1.20	22.30	6,890.31	6891.27	17.5 - 23.5	Chinle/Alluvial Interface
GWM-1	02/28/21	2.00	26.40	21.19	1.38	22.57	6,890.04	6891.14	17.5 - 23.5	Chinle/Alluvial Interface
GWM-1	03/31/21	2.00	26.55	22.57	3.83	26.40	6,886.21	6889.27	17.5 - 23.5	Chinle/Alluvial Interface
GWM-2	03/28/19	2.00	19.09	ND	NA	DRY	NA	NA	3.2 - 16.2	Chinle/Alluvial Interface
GWM-2	05/08/19	2.00	19.09	ND	NA	DRY	NA	NA	3.2 - 16.2	Chinle/Alluvial Interface
GWM-2	08/06/19	2.00	19.04	ND	NA	DRY	NA	NA	3.2 - 16.2	Chinle/Alluvial Interface
GWM-2	10/19/19	2.00	18.81	ND	NA	DRY	NA	NA	3.2 - 16.2	Chinle/Alluvial Interface
GWM-2	09/15/20	2.00	18.08	ND	NA	DRY	NA	NA	3.2 - 16.2	Chinle/Alluvial Interface
GWM-2	11/10/20	2.00	18.08	ND	NA	DRY	NA	NA	3.2 - 16.2	Chinle/Alluvial Interface
GWM-2	12/07/20	2.00	18.08	ND	NA	DRY	NA	NA	3.2 - 16.2	Chinle/Alluvial Interface
GWM-2	01/28/21	2.00	18.08	ND	NA	DRY	NA	NA	3.2 - 16.2	Chinle/Alluvial Interface
GWM-2	02/28/21	2.00	18.08	ND	NA	DRY	NA	NA	3.2 - 16.2	Chinle/Alluvial Interface
GWM-2	03/31/21	2.00	18.08	ND	NA	DRY	NA	NA	3.2 - 16.2	Chinle/Alluvial Interface

TABLE 2B. FLUID LEVEL MEASUREMENTS FOR NON MKTF WELLS
MARATHON PETROLEUM COMPANY, GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground water Elevation (ft)	Corrected Water Table [1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
GWM-3	03/28/19	2.00	18.06	ND	NA	DRY	DRY	NA	3 - 15	Chinle/Alluvial Interface
GWM-3	05/08/19	2.00	18.06	ND	NA	DRY	DRY	NA	3 - 15	Chinle/Alluvial Interface
GWM-3	08/06/19	2.00	18.04	ND	NA	DRY	DRY	NA	3 - 15	Chinle/Alluvial Interface
GWM-3	09/15/20	2.00	19.15	ND	NA	DRY	DRY	NA	3 - 15	Chinle/Alluvial Interface
GWM-3	10/11/20	2.00	19.15	ND	NA	DRY	DRY	NA	3 - 15	Chinle/Alluvial Interface
GWM-3	12/07/20	2.00	19.15	ND	NA	DRY	DRY	NA	3 - 15	Chinle/Alluvial Interface
GWM-3	01/28/21	2.00	19.15	ND	NA	DRY	DRY	NA	3 - 15	Chinle/Alluvial Interface
GWM-3	02/28/21	2.00	19.15	ND	NA	DRY	DRY	NA	3 - 15	Chinle/Alluvial Interface
GWM-3	03/31/21	2.00	19.15	ND	NA	DRY	DRY	NA	3 - 15	Chinle/Alluvial Interface
KA-3	03/28/19	2.00	NM	NM	NA	NM	NA	NA	15 - 25	Chinle/Alluvial Interface
KA-3	05/28/19	2.00	23.20	ND	NA	9.95	6,902.57	NA	15 - 25	Chinle/Alluvial Interface
KA-3	08/22/19	2.00	23.20	ND	NA	9.05	6,903.47	NA	15 - 25	Chinle/Alluvial Interface
KA-3	10/21/19	2.00	23.20	ND	NA	9.16	6,903.36	NA	15 - 25	Chinle/Alluvial Interface
KA-3	09/15/20	2.00	23.20	ND	NA	8.08	6,904.44	NA	15 - 25	Chinle/Alluvial Interface
KA-3	11/10/20	2.00	23.20	ND	NA	9.15	6,903.37	NA	15 - 25	Chinle/Alluvial Interface
KA-3	12/07/20	2.00	23.20	ND	NA	9.56	6,902.96	NA	15 - 25	Chinle/Alluvial Interface
KA-3	01/28/21	2.00	23.20	ND	NA	10.50	6,902.02	NA	15 - 25	Chinle/Alluvial Interface
KA-3	02/28/21	2.00	23.20	ND	NA	10.55	6,901.97	NA	15 - 25	Chinle/Alluvial Interface
KA-3	03/31/21	2.00	23.20	ND	NA	10.68	6,901.84	NA	15 - 25	Chinle/Alluvial Interface

TABLE 2B. FLUID LEVEL MEASUREMENTS FOR NON MKTF WELLS
MARATHON PETROLEUM COMPANY, GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground water Elevation (ft)	Corrected Water Table [1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
NAPIS-1	03/28/19	2.00	NM	NM	NA	NM	NA	NA	3.7 - 13.7	Chinle/Alluvial Interface
NAPIS-1	05/28/19	2.00	13.53	7.72	0.16	7.88	6,905.98	6906.11	3.7 - 13.7	Chinle/Alluvial Interface
NAPIS-1	08/22/19	2.00	13.53	7.45	0.08	7.53	6,906.33	6906.39	3.7 - 13.7	Chinle/Alluvial Interface
NAPIS-1	10/21/19	2.00	13.53	7.66	0.20	7.86	6,906.00	6906.16	3.7 - 13.7	Chinle/Alluvial Interface
NAPIS-1	09/15/20	2.00	13.58	6.70	0.01	6.71	6,907.15	6907.158	3.7 - 13.7	Chinle/Alluvial Interface
NAPIS-1	11/10/20	2.00	13.58	7.19	0.01	7.20	6,906.66	6906.668	3.7 - 13.7	Chinle/Alluvial Interface
NAPIS-1	12/07/20	2.00	13.76	7.43	0.01	7.44	6,906.42	6906.428	3.7 - 13.7	Chinle/Alluvial Interface
NAPIS-1	01/28/21	2.00	13.94	7.88	0.01	7.89	6,905.97	6905.978	3.7 - 13.7	Chinle/Alluvial Interface
NAPIS-1	02/27/21	2.00	13.94	7.90	0.05	7.95	6,905.91	6905.95	3.7 - 13.7	Chinle/Alluvial Interface
NAPIS-1	03/31/21	2.00	13.94	ND	NA	8.01	6,905.85	NA	3.7 - 13.7	Chinle/Alluvial Interface
NAPIS-2	03/28/19	2.00	NM	NM	NA	NM	NA	NA	4.2 - 14.2	Chinle/Alluvial Interface
NAPIS-2	05/28/19	2.00	13.61	ND	NA	9.54	6,903.11	NA	4.2 - 14.2	Chinle/Alluvial Interface
NAPIS-2	08/22/19	2.00	13.61	ND	NA	9.15	6,903.50	NA	4.2 - 14.2	Chinle/Alluvial Interface
NAPIS-2	10/21/19	2.00	13.61	ND	NA	9.40	6,903.25	NA	4.2 - 14.2	Chinle/Alluvial Interface
NAPIS-2	09/15/20	2.00	14.60	ND	NA	8.12	6,904.53	NA	4.2 - 14.2	Chinle/Alluvial Interface
NAPIS-2	11/10/20	2.00	14.60	ND	NA	8.51	6,904.14	NA	4.2 - 14.2	Chinle/Alluvial Interface
NAPIS-2	12/07/20	2.00	14.61	ND	NA	8.72	6,903.93	NA	4.2 - 14.2	Chinle/Alluvial Interface
NAPIS-2	01/28/21	2.00	14.62	ND	NA	9.16	6,903.49	NA	4.2 - 14.2	Chinle/Alluvial Interface
NAPIS-2	02/27/21	2.00	14.65	ND	NA	9.15	6,903.50	NA	4.2 - 14.2	Chinle/Alluvial Interface
NAPIS-2	03/31/21	2.00	14.65	ND	NA	9.32	6,903.33	NA	4.2 - 14.2	Chinle/Alluvial Interface

TABLE 2B. FLUID LEVEL MEASUREMENTS FOR NON MKTF WELLS
MARATHON PETROLEUM COMPANY, GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground water Elevation (ft)	Corrected Water Table [1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
NAPIS-3	03/28/19	2.00	NM	NM	NA	NM	NA	NA	25.4 - 30-4	Chinle/Alluvial Interface
NAPIS-3	05/28/19	2.00	30.42	ND	NA	10.57	6,902.19	NA	25.4 - 30-4	Chinle/Alluvial Interface
NAPIS-3	08/22/19	2.00	30.42	ND	NA	10.18	6,902.58	NA	25.4 - 30-4	Chinle/Alluvial Interface
NAPIS-3	10/21/19	2.00	30.42	ND	NA	10.02	6,902.74	NA	25.4 - 30-4	Chinle/Alluvial Interface
NAPIS-3	09/15/20	2.00	31.50	ND	NA	9.25	6,903.51	NA	25.4 - 30-4	Chinle/Alluvial Interface
NAPIS-3	11/10/20	2.00	31.50	ND	NA	9.47	6,903.29	NA	25.4 - 30-4	Chinle/Alluvial Interface
NAPIS-3	12/07/20	2.00	31.50	ND	NA	8.51	6,904.25	NA	25.4 - 30-4	Chinle/Alluvial Interface
NAPIS-3	01/28/21	2.00	31.50	ND	NA	9.00	6,903.76	NA	25.4 - 30-4	Chinle/Alluvial Interface
NAPIS-3	02/28/21	2.00	31.50	ND	NA	9.09	6,903.67	NA	25.4 - 30-4	Chinle/Alluvial Interface
NAPIS-3	03/31/21	2.00	31.50	ND	NA	9.27	6,903.49	NA	25.4 - 30-4	Chinle/Alluvial Interface
OAPIS-1	03/28/19	2.00	26.00	ND	NA	11.43	6,905.30	NA	16 - 26	Chinle/Alluvial Interface
OAPIS-1	05/08/19	2.00	26.00	ND	NA	12.09	6,904.64	NA	16 - 26	Chinle/Alluvial Interface
OAPIS-1	08/22/19	2.00	27.86	ND	NA	11.09	6,905.64	NA	16 - 26	Chinle/Alluvial Interface
OAPIS-1	10/21/19	2.00	27.78	ND	NA	11.44	6,905.29	NA	16 - 26	Chinle/Alluvial Interface
OAPIS-1	09/15/20	2.00	28.00	ND	NA	11.90	6,904.83	NA	16 - 26	Chinle/Alluvial Interface
OAPIS-1	11/10/20	2.00	28.00	ND	NA	12.02	6,904.71	NA	16 - 26	Chinle/Alluvial Interface
OAPIS-1	12/07/20	2.00	28.00	ND	NA	12.31	6,904.42	NA	16 - 26	Chinle/Alluvial Interface
OAPIS-1	01/28/21	2.00	28.00	ND	NA	12.98	6,903.75	NA	16 - 26	Chinle/Alluvial Interface
OAPIS-1	02/27/21	2.00	28.00	ND	NA	12.96	6,903.77	NA	16 - 26	Chinle/Alluvial Interface
OAPIS-1	03/31/21	2.00	28.00	ND	NA	13.48	6,903.25	NA	16 - 26	Chinle/Alluvial Interface

TABLE 2B. FLUID LEVEL MEASUREMENTS FOR NON MKTF WELLS
MARATHON PETROLEUM COMPANY, GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground water Elevation (ft)	Corrected Water Table [1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
OW-10	03/27/19	4.00	60.33	ND	NA	0.00	6,874.91	NA	40 - 60	Sonsela Sandstone
OW-10	05/22/19	4.00	60.33	ND	NA	0.00	6,874.91	NA	40 - 60	Sonsela Sandstone
OW-10	08/15/19	4.00	60.13	ND	NA	1.02	6,873.89	NA	40 - 60	Sonsela Sandstone
OW-10	10/17/19	4.00	60.33	ND	NA	2.33	6,872.58	NA	40 - 60	Sonsela Sandstone
OW-10	09/20/20	4.00	66.30	ND	NA	7.70	6,867.21	NA	40 - 60	Sonsela Sandstone
OW-10	10/09/20	4.00	66.30	ND	NA	7.70	6,867.21	NA	40 - 60	Sonsela Sandstone
OW-10	12/07/20	4.00	66.30	ND	NA	7.61	6,867.30	NA	40 - 60	Sonsela Sandstone
OW-10	01/28/21	4.00	66.30	ND	NA	7.84	6,867.07	NA	40 - 60	Sonsela Sandstone
OW-10	02/28/21	4.00	66.30	ND	NA	7.85	6,867.06	NA	40 - 60	Sonsela Sandstone
OW-10	03/31/21	4.00	66.30	ND	NA	7.68	6,867.23	NA	40 - 60	Sonsela Sandstone
OW-57	02/19/19	2.00	28.10	ND	NA	20.29	6,912.81	NA	15 - 25	Chinle/Alluvial Interface
OW-57	05/15/19	2.00	28.10	ND	NA	20.02	6,913.08	NA	15 - 25	Chinle/Alluvial Interface
OW-57	08/20/19	2.00	28.07	ND	NA	19.78	6,913.32	NA	15 - 25	Chinle/Alluvial Interface
OW-57	11/04/19	2.00	28.35	ND	NA	19.97	6,913.13	NA	15 - 25	Chinle/Alluvial Interface
OW-57	09/14/20	2.00	28.09	ND	NA	20.50	6,912.60	NA	15 - 25	Chinle/Alluvial Interface
OW-57	11/09/20	2.00	28.09	ND	NA	20.53	6,912.57	NA	15 - 25	Chinle/Alluvial Interface
OW-57	12/07/20	2.00	28.39	ND	NA	20.64	6,912.46	NA	15 - 25	Chinle/Alluvial Interface
OW-57	01/28/21	2.00	28.39	ND	NA	20.73	6,912.46	NA	15 - 25	Chinle/Alluvial Interface
OW-57	02/27/21	2.00	28.09	ND	NA	20.73	6,912.46	NA	15 - 25	Chinle/Alluvial Interface
OW-57	03/31/21	2.00	28.09	ND	NA	20.98	6,912.46	NA	15 - 25	Chinle/Alluvial Interface

TABLE 2B. FLUID LEVEL MEASUREMENTS FOR NON MKTF WELLS
MARATHON PETROLEUM COMPANY, GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground water Elevation (ft)	Corrected Water Table [1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
OW-58	03/28/19	2.00	47.30	ND	NA	24.28	6,910.22	NA	38 - 48	Chinle/Alluvial Interface
OW-58	06/05/19	2.00	47.30	ND	NA	24.09	6,910.41	NA	38 - 48	Chinle/Alluvial Interface
OW-58	08/20/19	2.00	47.49	ND	NA	24.00	6,910.50	NA	38 - 48	Chinle/Alluvial Interface
OW-58	11/18/19	2.00	47.50	ND	NA	23.99	6,910.51	NA	38 - 48	Chinle/Alluvial Interface
OW-58	09/14/20	2.00	48.00	ND	NA	23.55	6,910.95	NA	38 - 48	Chinle/Alluvial Interface
OW-58	11/09/20	2.00	48.00	ND	NA	23.31	6,911.19	NA	38 - 48	Chinle/Alluvial Interface
OW-58	12/08/20	2.00	47.95	ND	NA	24.32	6,910.18	NA	38 - 48	Chinle/Alluvial Interface
OW-58	01/28/21	2.00	47.95	ND	NA	24.29	6,910.18	NA	38 - 48	Chinle/Alluvial Interface
OW-58	02/28/21	2.00	47.95	ND	NA	23.80	6,910.18	NA	38 - 48	Chinle/Alluvial Interface
OW-58	03/31/21	2.00	47.95	ND	NA	24.40	6,910.18	NA	38 - 48	Chinle/Alluvial Interface
OW-58A	09/15/20	4.00	36.00	ND	NA	26.87	6,909.42	NA	25 - 33	Chinle/Alluvial Interface
OW-58A	11/09/20	4.00	36.91	ND	NA	24.31	6,911.98	NA	25 - 33	Chinle/Alluvial Interface
OW-58A	12/08/20	4.00	36.38	ND	NA	26.71	6,909.58	NA	25 - 33	Chinle/Alluvial Interface
OW-58A	01/28/21	4.00	36.38	ND	NA	26.66	6,909.58	NA	25 - 33	Chinle/Alluvial Interface
OW-58A	02/28/21	4.00	36.50	ND	NA	26.51	6,909.58	NA	25 - 33	Chinle/Alluvial Interface
OW-58A	03/31/21	4.00	36.50	ND	NA	26.75	6,909.58	NA	25 - 33	Chinle/Alluvial Interface

TABLE 2B. FLUID LEVEL MEASUREMENTS FOR NON MKTF WELLS
MARATHON PETROLEUM COMPANY, GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground water Elevation (ft)	Corrected Water Table [1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
OW-61	02/19/19	4.00	32.00	18.00	4.09	22.09	6,939.79	6943.06	8 - 28	Chinle/Alluvial Interface
OW-61	05/15/19	4.00	32.00	17.62	3.51	21.13	6,940.75	6943.56	8 - 28	Chinle/Alluvial Interface
OW-61	08/20/19	4.00	31.70	17.42	2.73	20.15	6,941.73	6943.91	8 - 28	Chinle/Alluvial Interface
OW-61	11/04/19	4.00	32.00	17.54	3.09	20.63	6,941.25	6943.722	8 - 28	Chinle/Alluvial Interface
OW-61	09/15/20	4.00	31.85	16.88	2.52	19.40	6,942.48	6944.496	8 - 28	Chinle/Alluvial Interface
OW-61	11/09/20	4.00	31.85	18.22	1.36	19.58	6,942.30	6943.388	8 - 28	Chinle/Alluvial Interface
OW-61	12/08/20	4.00	31.33	18.40	1.90	20.30	6,941.58	6943.1	8 - 28	Chinle/Alluvial Interface
OW-61	01/28/21	4.00	30.81	19.13	0.65	19.78	6,942.10	6942.62	8 - 28	Chinle/Alluvial Interface
OW-61	02/27/21	4.00	31.83	18.89	1.21	20.10	6,941.78	6942.748	8 - 28	Chinle/Alluvial Interface
OW-61	03/31/21	4.00	31.83	18.82	2.46	21.28	6,940.60	6942.568	8 - 28	Chinle/Alluvial Interface
OW-62	02/19/19	4.00	31.47	23.75	1.20	24.95	6,911.14	6912.10	8 - 28	Chinle/Alluvial Interface
OW-62	05/15/19	4.00	31.47	23.40	0.60	24.00	6,912.09	6912.57	8 - 28	Chinle/Alluvial Interface
OW-62	08/20/19	4.00	31.47	23.86	0.43	24.29	6,911.80	6912.14	8 - 28	Chinle/Alluvial Interface
OW-62	11/18/19	4.00	31.47	23.72	0.62	24.34	6,911.75	6912.25	8 - 28	Chinle/Alluvial Interface
OW-62	09/15/20	4.00	32.05	23.62	0.25	23.87	6,912.22	6912.42	8 - 28	Chinle/Alluvial Interface
OW-62	11/09/20	4.00	32.05	23.70	0.30	24.00	6,912.09	6912.33	8 - 28	Chinle/Alluvial Interface
OW-62	12/08/20	4.00	31.66	23.69	0.29	23.98	6,912.11	6912.34	8 - 28	Chinle/Alluvial Interface
OW-62	01/28/21	4.00	31.27	23.75	0.30	24.05	6,912.04	6912.28	8 - 28	Chinle/Alluvial Interface
OW-62	02/27/21	4.00	31.67	23.82	0.33	24.15	6,911.94	6912.20	8 - 28	Chinle/Alluvial Interface
OW-62	03/31/21	4.00	31.67	23.85	0.31	24.16	6,911.93	6912.18	8 - 28	Chinle/Alluvial Interface

TABLE 2B. FLUID LEVEL MEASUREMENTS FOR NON MKTF WELLS
MARATHON PETROLEUM COMPANY, GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground water Elevation (ft)	Corrected Water Table [1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
OW-63	02/19/19	4.00	32.00	ND	NA	20.74	6,913.13	NA	9 - 29	Chinle/Alluvial Interface
OW-63	05/15/19	4.00	32.00	ND	NA	20.35	6,913.52	NA	9 - 29	Chinle/Alluvial Interface
OW-63	08/19/19	4.00	32.20	ND	NA	20.12	6,913.75	NA	9 - 29	Chinle/Alluvial Interface
OW-63	11/18/19	4.00	32.00	ND	NA	20.30	6,913.57	NA	9 - 29	Chinle/Alluvial Interface
OW-63	09/14/20	4.00	32.05	ND	NA	20.73	6,913.14	NA	9 - 29	Chinle/Alluvial Interface
OW-63	11/09/20	4.00	32.05	ND	NA	20.85	6,913.02	NA	9 - 29	Chinle/Alluvial Interface
OW-63	12/08/20	4.00	32.22	ND	NA	20.97	6,912.90	NA	9 - 29	Chinle/Alluvial Interface
OW-63	01/28/21	4.00	32.22	ND	NA	21.15	6,912.90	NA	9 - 29	Chinle/Alluvial Interface
OW-63	02/27/21	4.00	32.22	ND	NA	21.13	6,912.90	NA	9 - 29	Chinle/Alluvial Interface
OW-63	03/31/21	4.00	32.22	ND	NA	21.28	6,912.90	NA	9 - 29	Chinle/Alluvial Interface
OW-64	02/19/19	4.00	27.63	7.00	0.02	7.02	6,939.07	6939.09	4 - 24	Chinle/Alluvial Interface
OW-64	05/15/19	4.00	27.63	ND	NA	6.83	6,939.26	NA	4 - 24	Chinle/Alluvial Interface
OW-64	08/19/19	4.00	27.35	ND	NA	7.10	6,938.99	NA	4 - 24	Chinle/Alluvial Interface
OW-64	11/18/19	4.00	27.35	ND	NA	8.40	6,937.69	NA	4 - 24	Chinle/Alluvial Interface
OW-64	09/14/20	4.00	27.35	ND	NA	7.95	6,938.14	NA	4 - 24	Chinle/Alluvial Interface
OW-64	11/09/20	4.00	27.35	ND	NA	8.18	6,937.91	NA	4 - 24	Chinle/Alluvial Interface
OW-64	12/07/20	4.00	27.35	ND	NA	8.26	6,937.83	NA	4 - 24	Chinle/Alluvial Interface
OW-64	01/28/21	4.00	27.35	ND	NA	8.54	6,937.55	NA	4 - 24	Chinle/Alluvial Interface
OW-64	02/27/21	4.00	27.35	ND	NA	8.29	6,937.80	NA	4 - 24	Chinle/Alluvial Interface
OW-64	03/31/21	4.00	27.35	ND	NA	8.37	6,937.72	NA	4 - 24	Chinle/Alluvial Interface

TABLE 2B. FLUID LEVEL MEASUREMENTS FOR NON MKTF WELLS
MARATHON PETROLEUM COMPANY, GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground water Elevation (ft)	Corrected Water Table [1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
OW-65	02/19/19	4.00	40.00	22.24	9.27	31.51	6,921.32	6928.74	17 - 37	Chinle/Alluvial Interface
OW-65	05/15/19	4.00	40.00	23.47	8.74	32.21	6,920.62	6927.61	17 - 37	Chinle/Alluvial Interface
OW-65	08/20/19	4.00	41.66	21.97	9.18	31.15	6,921.68	6929.02	17 - 37	Chinle/Alluvial Interface
OW-65	11/04/19	4.00	40.00	22.30	8.55	30.85	6,921.98	6928.82	17 - 37	Chinle/Alluvial Interface
OW-65	09/14/20	4.00	42.80	24.70	6.06	30.76	6,922.07	6926.918	17 - 37	Chinle/Alluvial Interface
OW-65	11/09/20	4.00	42.80	25.05	7.30	32.35	6,920.48	6926.32	17 - 37	Chinle/Alluvial Interface
OW-65	12/08/20	4.00	42.50	25.79	6.16	31.95	6,920.88	6925.808	17 - 37	Chinle/Alluvial Interface
OW-65	01/28/21	4.00	42.50	26.63	5.12	31.75	6,920.88	6925.808	17 - 37	Chinle/Alluvial Interface
OW-65	02/27/21	4.00	41.75	26.41	7.30	33.71	6,920.88	6925.808	17 - 37	Chinle/Alluvial Interface
OW-65	03/31/21	4.00	41.75	27.40	6.48	33.88	6,920.88	6925.808	17 - 37	Chinle/Alluvial Interface
RW-1	03/28/19	4.00	NM	NM	NA	NA	NA	NA	25 - 40	Chinle/Alluvial Interface
RW-1	05/08/19	4.00	NM	NM	NA	NA	NA	NA	25 - 40	Chinle/Alluvial Interface
RW-1	08/16/19	4.00	NM	NM	NA	NA	NA	NA	25 - 40	Chinle/Alluvial Interface
RW-1	11/01/19	4.00	NM	NM	NA	NM	NA	NA	25 - 40	Chinle/Alluvial Interface
RW-1	09/19/20	4.00	43.45	28.07	2.13	30.20	6,915.86	6,917.56	25 - 40	Chinle/Alluvial Interface
RW-1	11/10/20	4.00	43.45	29.50	0.83	30.33	6,915.73	6,916.39	25 - 40	Chinle/Alluvial Interface
RW-1	12/08/20	4.00	43.45	29.50	0.83	30.33	6,915.73	6,916.39	25 - 40	Chinle/Alluvial Interface
RW-1	01/28/21	4.00	43.45	29.98	0.35	30.33	6,915.73	6,916.01	25 - 40	Chinle/Alluvial Interface
RW-1	02/27/21	4.00	43.45	29.75	1.30	31.05	6,915.01	6,916.05	25 - 40	Chinle/Alluvial Interface
RW-1	03/31/21	4.00	43.45	29.90	2.11	32.01	6,914.05	6,915.74	25 - 40	Chinle/Alluvial Interface

TABLE 2B. FLUID LEVEL MEASUREMENTS FOR NON MKTF WELLS
MARATHON PETROLEUM COMPANY, GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground water Elevation (ft)	Corrected Water Table [1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
RW-2	03/28/19	4.00	NM	NM	NA	NM	NA	NA	26.1 - 36.1	Chinle/Alluvial Interface
RW-2	05/08/19	4.00	NM	NM	NA	NM	NA	NA	26.1 - 36.1	Chinle/Alluvial Interface
RW-2	08/16/19	4.00	NM	NM	NA	NM	NA	NA	26.1 - 36.1	Chinle/Alluvial Interface
RW-2	11/01/19	4.00	NM	NM	NA	NM	NA	NA	26.1 - 36.1	Chinle/Alluvial Interface
RW-2	09/19/20	4.00	40.00	22.10	0.13	22.23	6,906.30	NA	26.1 - 36.1	Chinle/Alluvial Interface
RW-2	11/09/20	4.00	40.00	22.09	0.19	22.28	6,906.25	NA	26.1 - 36.1	Chinle/Alluvial Interface
RW-2	12/08/20	4.00	40.00	22.20	0.18	22.38	6,906.15	NA	26.1 - 36.1	Chinle/Alluvial Interface
RW-2	01/28/21	4.00	40.00	ND	NA	22.40	6,906.13	NA	26.1 - 36.1	Chinle/Alluvial Interface
RW-2	02/27/21	4.00	40.00	22.40	0.05	22.45	6,906.08	NA	26.1 - 36.1	Chinle/Alluvial Interface
RW-2	03/31/21	4.00	40.00	22.70	0.15	22.85	6,905.68	NA	26.1 - 36.1	Chinle/Alluvial Interface
RW-5	03/28/19	4.00	NM	NM	NA	NM	NA	NA	29.5 - 39.5	Chinle/Alluvial Interface
RW-5	05/08/19	4.00	NM	NM	NA	NM	NA	NA	29.5 - 39.5	Chinle/Alluvial Interface
RW-5	08/16/19	4.00	NM	NM	NA	NM	NA	NA	29.5 - 39.5	Chinle/Alluvial Interface
RW-5	11/01/19	4.00	NM	NM	NA	NM	NA	NA	29.5 - 39.5	Chinle/Alluvial Interface
RW-5	09/19/20	4.00	39.51	29.59	3.22	32.81	6,910.76	6,913.34	29.5 - 39.5	Chinle/Alluvial Interface
RW-5	11/09/20	4.00	39.51	29.86	3.17	33.03	6,910.54	6,913.08	29.5 - 39.5	Chinle/Alluvial Interface
RW-5	12/08/20	4.00	39.51	33.15	6.36	39.51	6,904.06	6,909.15	29.5 - 39.5	Chinle/Alluvial Interface
RW-5	01/28/21	4.00	39.51	32.42	1.56	33.98	6,909.59	6,910.84	29.5 - 39.5	Chinle/Alluvial Interface
RW-5	02/27/21	4.00	39.51	31.02	0.63	31.65	6,911.92	6,912.42	29.5 - 39.5	Chinle/Alluvial Interface
RW-5	03/31/21	4.00	39.51	30.10	1.49	31.59	6,911.98	6,913.17	29.5 - 39.5	Chinle/Alluvial Interface

TABLE 2B. FLUID LEVEL MEASUREMENTS FOR NON MKTF WELLS
MARATHON PETROLEUM COMPANY, GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground water Elevation (ft)	Corrected Water Table [1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
RW-6	03/28/19	4.00	NM	NM	NA	NM	NA	NA	28.5 - 38.5	Chinle/Alluvial Interface
RW-6	05/08/19	4.00	NM	NM	NA	NM	NA	NA	28.5 - 38.5	Chinle/Alluvial Interface
RW-6	08/16/19	4.00	NM	NM	NA	NM	NA	NA	28.5 - 38.5	Chinle/Alluvial Interface
RW-6	09/19/20	4.00	40.85	29.72	2.92	32.64	6,911.37	6,913.71	28.5 - 38.5	Chinle/Alluvial Interface
RW-6	11/09/20	4.00	40.85	29.98	3.07	33.05	6,910.96	6,913.42	28.5 - 38.5	Chinle/Alluvial Interface
RW-6	12/08/20	4.00	40.85	30.18	3.13	33.31	6,910.70	6,913.20	28.5 - 38.5	Chinle/Alluvial Interface
RW-6	01/28/21	4.00	40.85	30.22	2.90	33.12	6,910.89	6,913.21	28.5 - 38.5	Chinle/Alluvial Interface
RW-6	02/27/21	4.00	40.85	30.45	3.23	33.68	6,910.33	6,912.91	28.5 - 38.5	Chinle/Alluvial Interface
RW-6	03/31/21	4.00	40.85	5.17	26.53	31.70	6,912.31	6,933.54	28.5 - 38.5	Chinle/Alluvial Interface
STP1-NW	02/13/19	2.00	50.00	ND	NA	20.35	6,884.12	NA	20 - 50	Chinle/Alluvial Interface
STP1-NW	05/08/19	2.00	50.00	ND	NA	19.54	6,884.93	NA	20 - 50	Chinle/Alluvial Interface
STP1-NW	08/21/19	2.00	50.00	ND	NA	20.79	6,883.68	NA	20 - 50	Chinle/Alluvial Interface
STP1-NW	10/22/19	2.00	50.00	ND	NA	20.76	6,883.71	NA	20 - 50	Chinle/Alluvial Interface
STP1-NW	12/08/20	2.00	50.28	ND	NA	20.78	6,883.69	NA	20 - 50	Chinle/Alluvial Interface
STP1-NW	01/28/21	2.00	50.56	ND	NA	20.76	6,883.71	NA	20 - 50	Chinle/Alluvial Interface
STP1-NW	02/28/21	2.00	49.85	ND	NA	20.60	6,883.87	NA	20 - 50	Chinle/Alluvial Interface
STP1-NW	03/31/21	2.00	49.85	ND	NA	21.95	6,882.52	NA	20 - 50	Chinle/Alluvial Interface

TABLE 2B. FLUID LEVEL MEASUREMENTS FOR NON MKTF WELLS
MARATHON PETROLEUM COMPANY, GALLUP REFINERY
GALLUP, NEW MEXICO

Well ID Number	Inspection or Sample Date	Casing Diameter (Inch)	Total Well Depth (ft)	Depth to SPH (ft)	SPH Column Thickness (ft)	Depth to Water (ft)	Ground water Elevation (ft)	Corrected Water Table [1] Elevation (ft)	Screened Interval Depth Top to Bottom (ft)	Stratigraphic unit in which screen exists
STP1-SW	02/13/19	2.00	NM	NM	NA	NM	NA	NA	15 - 30	Chinle/Alluvial Interface
STP1-SW	05/08/19	2.00	NM	NM	NA	NM	NA	NA	15 - 30	Chinle/Alluvial Interface
STP1-SW	08/21/19	2.00	NM	NM	NA	NM	NA	NA	15 - 30	Chinle/Alluvial Interface
STP1-SW	10/22/19	2.00	NM	NM	NA	NM	NA	NA	15 - 30	Chinle/Alluvial Interface
STP1-SW	12/08/20	2.00	29.25	ND	NA	29.23	NA	NA	15 - 30	Chinle/Alluvial Interface
STP1-SW	02/28/21	2.00	29.15	29.10	0.02	29.12	NA	NA	15 - 30	Chinle/Alluvial Interface
STP1-SW	03/31/21	2.00	29.15	29.10	0.05	29.15	NA	NA	15 - 30	Chinle/Alluvial Interface

Notes:
NA = Not Applicable
NS = Not Surveyed
Negative number in Stick up Length column indicates well is flushmount and located at or below ground level.
Depth to Water Column - if 0.00 is indicated - means water is at top of casing (full) under artesian flow conditions.
Dry indicates no water was detected.

TABLE 3A. JANUARY VACUUM TRUCK EXTRACTIONS - MKTF WELLS
MARATHON PETROLEUM COMPANY, GALLUP REFINERY
GALLUP, NEW MEXICO

Location	Date	DTP (ft.)	DTW (ft.)	Recovery Method	Product Thickness (ft.)	Volume/Foot (gals)	Volume Pumped/ Recovered (gals)	Water Volume (gals)	Product Volume (gals)	Total Depth (ft)	Casing Diameter (in)	Comments
MKTF-5	1/14/2021	14.94	15.13	Vac Truck	0.19	0.74	2.14	1.998	0.14	17.83	4	
MKTF-6	1/14/2021	18.06	19.65	Vac Truck	1.59	0.74	4.24	3.0636	1.18	23.79	4	
MKTF-7	1/14/2021	13.80	14.68	Vac Truck	0.88	0.74	2.69	2.035	0.65	17.43	4	
MKTF-8	1/14/2021	14.84	15.15	Vac Truck	0.31	0.74	5.30	5.069	0.23	22.00	4	
MKTF-13	1/14/2021	13.16	17.29	Vac Truck	4.13	0.74	6.64	3.5816	3.06	22.13	4	
MKTF-14	1/14/2021	6.97	7.51	Vac Truck	0.54	0.74	7.66	7.2594	0.40	17.32	4	
MKTF-17	1/14/2021	11.73	11.89	Vac Truck	0.16	0.16	2.11	2.08314	0.03	24.67	2	
MKTF-20	1/14/2021	8.99	9.60	Vac Truck	0.61	0.74	0.47	0.0148	0.45	9.62	4	
MKTF-22	1/14/2021	25.49	27.22	Vac Truck	1.73	0.16	1.56	1.28281	0.28	35.09	2	
MKTF-26	1/14/2021	8.93	9.20	Vac Truck	0.27	0.16	1.30	1.25347	0.04	16.89	2	
MKTF-33	1/14/2021	22.58	25.96	Vac Truck	3.38	0.16	1.72	1.17197	0.55	33.15	2	
MKTF-45	1/14/2021	13.28	13.44	Vac Truck	0.16	0.74	12.55	12.432	0.12	30.24	4	
						Total Initially Extracted (gal.)	**48.37**	**41.24**	**7.13**			

TABLE 3B. JANUARY VACUUM TRUCK EXTRACTIONS - TANK FARM WELLS
MARATHON PETROLEUM COMPANY, GALLUP REFINERY
GALLUP, NEW MEXICO

Location	Date	DTP (ft)	DTW (ft)	Recovery Method	Product Thickness (ft)	Volume/ Foot (gal.)	Volume Pumped/ Recovered (gal.)	Water Volume (gal.)	Product Volume (gal.)	Total Depth (ft)	Casing Diameter (in)	Comments
OW-61	1/13/2021	18.88	20.16	Vac Truck	1.28	0.74	6.75	5.8016	0.95	28.00	4	
OW-65	1/20/2021	26.22	33.49	Vac Truck	7.27	0.74	7.98	2.5974	5.38	37.00	4	
RW-1	1/15/2021	28.71	30.86	Vac Truck	2.15	0.74	10.60	9.0132	1.59	43.04	4	
RW-2	1/13/2021	21.89	21.89	Vac Truck	0.00	0.74	13.25	13.2534	0.00	39.80	4	No SPH detected, operator still extracted water
RW-5	1/13/2021	29.71	30.19	Vac Truck	0.48	0.74	7.31	6.956	0.36	39.59	4	
RW-6	1/13/2021	29.28	31.93	Vac Truck	2.65	0.74	8.60	6.6378	1.96	40.90	4	
						Total Initially Extracted (ga.)	**41.24**	**31.01**	**10.23**			

TABLE 3C. MARCH VACUUM TRUCK EXTRACTIONS - MKTF WELLS
MARATHON PETROLEUM COMPANY, GALLUP REFINERY
GALLUP, NEW MEXICO

Location	Date	DTP (ft.)	DTW (ft.)	Recovery Method	Product Thickness (ft.)	Volume/Foot (gals)	Volume Pumped/ Recovered (gals)	Water Volume (gals)	Product Volume (gals)	Total Depth (ft)	Casing Diameter (in)	Comments
MKTF-5	3/31/2021	14.50	15.65	Vac Truck	1.15	0.74	2.46	1.6132	0.85	17.83	4	
MKTF-5	4/1/2021	14.73	14.79	Re-Guaging	0.06	0.74	2.29	2.2496	0.04	17.83	4	
MKTF-6	3/30/2021	17.70	18.50	Vac Truck	0.80	0.74	4.51	3.9146	0.59	23.79	4	
MKTF-6	3/31/2021	17.97	18.15	Re-Guaging	0.18	0.74	4.31	4.1736	0.13	23.79	4	
MKTF-7	3/30/2021	13.20	13.40	Vac Truck	0.20	0.74	3.13	2.9822	0.15	17.43	4	
MKTF-7	3/31/2021	13.70	13.81	Re-Guaging	0.11	0.74	2.76	2.6788	0.08	17.43	4	
MKTF-8	3/30/2021	14.30	14.50	Vac Truck	0.20	0.74	5.70	5.55	0.15	22.00	4	
MKTF-8	3/31/2021	14.60	14.70	Re-Guaging	0.10	0.74	5.48	5.402	0.07	22.00	4	
MKTF-13				Vac Truck	0.00	0.74	16.38	16.3762	0.00	22.13	4	Could not access with the vac truck due to muddy conditions
MKTF-13				Re-Guaging	0.00	0.74	16.38	16.3762	0.00	22.13	4	
MKTF-14	3/31/2021	6.00	6.40	Vac Truck	0.40	0.74	8.38	8.0808	0.30	17.32	4	
MKTF-14	4/1/2021	5.74	6.13	Re-Guaging	0.39	0.74	8.57	8.2806	0.29	17.32	4	
MKTF-17	3/30/2021	11.75	11.77	Vac Truck	0.02	0.16	2.11	2.1027	0.00	24.67	2	
MKTF-17	3/31/2021	15.06	15.09	Re-Guaging	0.03	0.16	1.57	1.56154	0.00	24.67	2	
MKTF-20	4/1/2021	8.97	9.26	Vac Truck	0.29	0.74	0.48	0.2664	0.21	9.62	4	
MKTF-20	4/2/2021	8.68	8.72	Re-Guaging	0.04	0.74	0.70	0.666	0.03	9.62	4	
MKTF-22	3/31/2021	25.20	27.70	Vac Truck	2.50	0.16	1.61	1.20457	0.41	35.09	2	
MKTF-22	4/1/2021	26.16	27.41	Re-Guaging	1.25	0.16	1.46	1.25184	0.20	35.09	2	
MKTF-26	3/31/2021	8.80	8.85	Vac Truck	0.05	0.16	1.32	1.31052	0.01	16.89	2	
MKTF-26	4/1/2021	7.68	7.93	Re-Guaging	0.25	0.16	1.50	1.46048	0.04	16.89	2	
MKTF-33	3/31/2021	23.10	23.80	Vac Truck	0.70	0.16	1.64	1.52405	0.11	33.15	2	
MKTF-33	4/1/2021	24.33	24.77	Re-Guaging	0.44	0.16	1.44	1.36594	0.07	33.15	2	
MKTF-45	3/30/2021	15.40	15.60	Vac Truck	0.20	0.74	10.98	10.8336	0.15	30.24	4	
MKTF-45	3/31/2021	14.16	14.23	Re-Guaging	0.07	0.74	11.90	11.8474	0.05	30.24	4	
						Total Initially Extracted (gal.)	**58.69**	**55.76**	**2.93**			
						Re-Gauging After Recharge Total (gal.)	**58.34**	**57.31**	**1.02**			
						Difference (gal.)	**-0.35**	**1.56**	**-1.91**			

TABLE 3D. MARCH VACUUM TRUCK EXTRACTIONS - TANK FARM WELLS
MARATHON PETROLEUM COMPANY, GALLUP REFINERY
GALLUP, NEW MEXICO

Location	Date	DTP (ft)	DTW (ft)	Recovery Method	Product Thickness (ft)	Volume/ Foot (gal.)	Volume Pumped/ Recovered (gal.)	Water Volume (gal.)	Product Volume (gal.)	Total Depth (ft)	Casing Diameter (in)	Comments
OW-61	3/31/2021	18.78	21.81	Vac Truck	3.03	0.74	6.82	4.58	2.24	28.0	4	
OW-61	4/1/2021	19.30	19.57	Vac Truck	0.27	0.74	6.44	6.24	0.20	28.00	4	
OW-65	3/31/2021	27.11	29.72	Vac Truck	2.61	0.74	7.32	5.39	1.93	37.0	4	
OW-65	4/1/2021	27.59	29.72	Vac Truck	2.13	0.74	6.96	5.39	1.58	37.00	4	
RW-1	3/31/2021	28.71	30.86	Vac Truck	2.15	0.74	10.60	9.01	1.59	43.0	4	
RW-1	4/1/2021	26.52	29.16	Vac Truck	2.64	0.74	12.22	10.27	1.95	43.04	4	
RW-2	3/31/2021	21.7	21.71	Vac Truck	0.01	0.74	13.39	13.39	0.01	39.8	4	
RW-2	4/1/2021	22.80	22.80	Vac Truck	0.00	0.74	12.58	12.58	0.00	39.80	4	
RW-5	3/31/2021	30.3	30.9	Vac Truck	0.60	0.74	6.87	6.43	0.44	39.6	4	
RW-5	4/1/2021	29.90	31.10	Vac Truck	1.20	0.74	7.17	6.28	0.89	39.59	4	
RW-6	3/31/2021	29.8	32.9	Vac Truck	3.10	0.74	8.21	5.92	2.29	40.9	4	
RW-6	4/1/2021	28.76	31.05	Vac Truck	2.29	0.74	8.98	7.29	1.69	40.90	4	
						Total Initially Extracted (gal.)	**39.83**	**31.33**	**8.50**			
						Re-Gauging After Recharge Total (gal.)	**41.78**	**35.47**	**6.31**			
						Difference (gal.)	**1.95**	**4.14**	**-2.19**			

ATTACHMENT B

New Mexico Environment Department to Marathon Petroleum Company Comment Letter "Approval with Modifications Hydrocarbon Seep Interim Measures 2020 Fourth Quarter Status Report" (March 30, 2021)

New Mexico Environment Department (NMED) Comment	Marathon Petroleum Company (MPC) Response
Comment 1:	**Response 1:**
In the Activities conducted during fourth quarter 2020, paragraph 1, page 1, the Permittee states, "[e]xcept for MKTF-01, the MKTF wells due south and upgradient of the hydrocarbon seep area increased in water level when compared to the third quarter. The greatest increases were in MKTF-3 (1.53 feet [ft]), MKTF—19 (1.45 ft), and MKTF-23 (1.28 ft). Fluid levels tended to decrease southwest, toward the Truck Loading Rack. The greatest decreases were in MKTF-14 (1.01 ft) and MKTF-45 (3.92 ft). All other variations were less than 1 ft." NMED's Approval Hydrocarbon Seep Interim Measures 2020 Third Quarter Status Report, dated December 10, 2020, approved the proposed monthly gauging for all groundwater monitoring wells and directed the Permittee to report the gauging data in future status reports. The gauging data was not included in the Report. Provide a table that presents the gauging data in the 2021 first quarter status report. In addition, the refinery was placed in indefinite idle as of October 9, 2020. Accordingly, water levels were expected to decrease in the MKTF wells south and upgradient of the hydrocarbon seep area. In the 2021 first quarter status report, explain potential causes of the water level increases in the area. Furthermore, clarify whether the decrease in water levels in wells MKTF-14 and MKTF-45 was caused by the fluid recovery events conducted in October and December 2020 rather than the idling of the plant in the 2021 first quarter status report.	Gauging data will be presented in quarterly status reports starting with the first quarter 2021 report. The first quarter 2021 status report includes a discussion on the decrease in water levels MKTF-14 and MKTF-45. The changes in water levels could be a result of the domestic and fire water systems operation.

New Mexico Environment Department to Marathon Petroleum Company Comment Letter "Approval with Modifications Hydrocarbon Seep Interim Measures 2020 Fourth Quarter Status Report" (March 30, 2021)

Comment 2:	**Response 2:**
In the Activities conducted during fourth quarter 2020, paragraph 2, page 1, the Permittee states, "[f]luid removal in MKTF wells upgradient of the hydrocarbon seep area, with recoverable SPH, was conducted in October and December of 2020 using a vacuum truck to control product migration. In October, 16.6 gallons of SPH were extracted. In December, 9.53 gallons were extracted." Provide a table listing all MKTF wells where fluid recovery events were conducted and the gauging data, if available, in the 2021 first quarter status report. If the gauging data was not collected at the time of fluid recovery, the Permittee must gauge fluid levels before and after conducting fluid recovery and when fluid level returns to the baseline condition (e.g., after 24 hours) in the future and report these data in future status reports.	Comment noted. Fluid levels will be taken 24 hours after vac truck extraction in future events.
Comment 3:	**Response 3:**
In the Activities conducted during fourth quarter 2020, paragraph 4, page 1, the Permittee states, "Marathon submitted a revised workplan and address[ed] NMED's comments on January 4, 2021." NMED issued an approval with modifications on February 11, 2021 and required a response letter no later than **May 31, 2021**. This comment serves as a reminder; no revision is required.	A response letter was submitted to NMED on April 14, 2021 in regard to the Investigation Work Plan for Area of Concern 35.
Comment 4:	**Response 4:**
In the Activities conducted during fourth quarter 2020, paragraph 1, page 2, the Permittee states, "Marathon also continues to evaluate PW-3 to determine if potable water is being lost through casing leaks." Describe the ongoing efforts for the evaluation of well PW-3 in the 2021 first quarter status report.	The first quarter 2021 hydrocarbon seep report includes the following discussion regarding the evaluation of PW-3: "Marathon is currently evaluating PW-3 to determine if potable water is being lost through casing leaks. A memorandum detailing the findings of the PW-3 evaluation will be submitted during the third quarter of 2021."

New Mexico Environment Department to Marathon Petroleum Company Comment Letter "Approval with Modifications Hydrocarbon Seep Interim Measures 2020 Fourth Quarter Status Report" (March 30, 2021)

Comment 5:	Response 5:
In the Activities planned for the first quarter 2021, paragraph 4, page 2, the Permittee states, "gauging of existing monitoring wells near the Marketing Tank Farm indicates the gasoline is migrating to the north and may spread to the hydrocarbon seep area. Fluid recovery from MKTF wells upgradient of the hydrocarbon seep area, with recoverable SPH, will be conducted monthly to help control product migration." The proposed measure to prevent the gasoline plume migrating north is likely too passive to prevent it from spreading. The source location of the gasoline plume was already identified to be originating from the underground product transfer line on the north side of the Truck loading rack. Therefore, a completion of the investigation required by the Investigation Work Plan No. 2 Area of Concern 35, dated February 2020, is not necessary in order to develop remediation strategies to eliminate the source of the gasoline plume. Submit an interim measure work plan to eliminate the source of the gasoline plume no later than **July 30, 2021**.	Comment noted. MPC has installed five recovery sumps that will undergo vacuum truck recovery every other day. Installation of these sumps was discussed with NMED. An interim measure report summarizing these activities will be submitted no later than July 30, 2021.

New Mexico Environment Department to Marathon Petroleum Company Comment Letter "Approval with Modifications Hydrocarbon Seep Interim Measures 2020 Fourth Quarter Status Report" (March 30, 2021)

Comment 6:	Response 6:
In the Activities planned for the first quarter 2021, paragraph 5, page 2, the Permittee states, "SPH has been detected in MKTF-33." Explain whether the SPH detected in well MKTF-33 is the same gasoline released from the underground product transfer line on the north side of the Truck loading rack and provide the gauging data collected from well MKTF-33 in the 2021 first quarter status report. If the SPH in well MKTF-33 is determined to be the same gasoline, describe how the determination was made. In this case, the plume is rapidly expanding west as well as north. if it is unknown, propose to identify the origin of the SPH in the response letter required by the NMED's February 11, 2021 Approval with Modifications (see Comment 3). Furthermore, the Response to Disapproval Investigation Work Plan No. 2 Area of Concern 35, dated January 4, 2021, states that the first monitoring well is proposed to be located approximately 100 ft west of MTKF-17, and the work plan was approved by the NMED's February 11, 2021 Approval with Modifications. However, since SPH is now detected in well MKTF-33 located approximately 550 feet west of well MKTF-17, the proposed location of the monitoring well is no longer appropriate. The Permittee must change the proposed location to approximately halfway between wells MKTF-32 and MKTF-33 in order to delineate the SPH plume. Address the change in the response letter required by the NMED's February 11, 2021 Approval with Modifications (see Comment 3).	The SPH detected in MKTF-33 was identified to be the same gasoline released from the transfer line. This was determined using laser induced fluorescence (LIF) in February 2021. A response letter was submitted to NMED on April 14, 2021 in regard to the Investigation Work Plan for Area of Concern 35 that did not include the updated proposed location for monitoring well addressed in this comment. The monitoring well will be relocated west of the borrow pit seep area to support in delineating the SPH plume and the revised location is shown on Figure 1.

New Mexico Environment Department to Marathon Petroleum Company Comment Letter "Approval with Modifications Hydrocarbon Seep Interim Measures 2020 Fourth Quarter Status Report" (March 30, 2021)

Comment 7:	Response 7:
In the Activities planned for the first quarter 2021, paragraph 5, page 2, the Permittee states, "Marathon will conduct the Additional Laser Induced Fluorescence (LIF) Investigation in February 2021 to delineate SPH to the west of the Truck Loading Rack. Additionally, the LIF investigation will include locations along the road south of the Hydrocarbon Seep Area and south of Tank 102 to determine the extent of product migration to the north of the Truck Loading Rack." Provide a date when the LIF investigation report will be submitted to NMED in the 2021 first quarter status report.	Comment noted. The LIF investigation report was submitted to NMED on April 1, 2021.

FIGURES

Image Cite: DigitalGlobe © CNES (2020) Distribution Airbus DS © Microsoft Corporation, BING Imagery

M:\TON\MARATHON\CADD\GALLUP_REPORTS\AOC\AOC35-RTC\697-GALLUPAOC35-PROPSAMPLOCS

EXPLANATION

- MKTF-34 — EXISTING CHINLE/ALLUVIUM INTERFACE AND SPH WELL AND DESIGNATION
- OILY WATER DRAIN LINE
- SS — SANITARY SEWER LINE
- PROPOSED SOIL BORING LOCATION (JULY 2019 WORK PLAN)
- PROPOSED SOIL BORING LOCATIONS
- PROPOSED WELL LOCATIONS
- PROPOSED SUMP LOCATIONS
- SPH — SINGLE-PHASE HYDROCARBON

N

0 100'

Trihydro CORPORATION
1252 Commerce Drive
Laramie, Wyoming 82070
www.trihydro.com
(P) 307/745.7474 (F) 307/745.7729

FIGURE 7

PROPOSED SAMPLING LOCATIONS

AOC 35 INVESTIGATION WORK PLAN
MARATHON PETROLEUM CORP.
GALLUP REFINING DIVISION, GALLUP, NEW MEXICO

Drawn By: REP	Checked By: MS	Scale: 1" = 100'	Date: 12/10/20	File: 697-GALLUPAOC35-PROPSAMPLOCS

NEW MEXICO
ENVIRONMENT DEPARTMENT

Hazardous Waste Bureau

2905 Rodeo Park Drive East, Building 1
Santa Fe, New Mexico 87505-6313
Phone (505) 476-6000 Fax (505) 476-6030
www.env.nm.gov

Michelle Lujan Grisham
Governor

Howie C. Morales
Lt. Governor

James C. Kenney
Cabinet Secretary

Jennifer J. Pruett
Deputy Secretary

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

March 30, 2021

John Moore
Environmental Superintendent
Western Refining, Southwest Inc., Gallup Refinery
92 Giant Crossing Road
Gallup, New Mexico 87301

RE: APPROVAL WITH MODIFICATIONS
HYDROCARBON SEEP INTERIM MEASURES 2020 FOURTH QUARTER STATUS REPORT
WESTERN REFINING SOUTHWEST INC., GALLUP REFINERY
EPA ID # NMD000333211
HWB-WRG-21-003

Dear Mr. Moore:

The New Mexico Environment Department (NMED) has reviewed the *Hydrocarbon Seep Interim Measures 2020 Fourth Quarter Status Report* (Report), dated February 22, 2021, submitted on behalf of Marathon Petroleum Company dba Western Refining Southwest Inc., Gallup Refinery (the Permittee). NMED hereby issues this Approval with Modifications with the following comments.

Comment 1

In the *Activities conducted during fourth quarter 2020*, paragraph 1, page 1, the Permittee states, "[e]xcept for MKTF-01, the MKTF wells due south and upgradient of the hydrocarbon seep area increased in water level when compared to the third quarter. The greatest increases were in MKTF-3 (1.53 feet [ft]), MKTF-19 (1.45 ft), and MKTF-23 (1.28 ft). Fluid levels tended to decrease southwest, toward the Truck Loading Rack. The greatest decreases were in MKTF-14

(1.01 ft) and MKTF-45 (3.92 ft). All other variations were less than 1 ft." NMED's *Approval Hydrocarbon Seep Interim Measures 2020 Third Quarter Status Report,* dated December 10, 2020, approved the proposed monthly gauging for all groundwater monitoring wells and directed the Permittee to report the gauging data in future status reports. The gauging data was not included in the Report. Provide a table that presents the gauging data in the 2021 first quarter status report.

In addition, the refinery was placed in indefinite idle as of October 9, 2020. Accordingly, water levels were expected to decrease in the MKTF wells south and upgradient of the hydrocarbon seep area. In the 2021 first quarter status report, explain potential causes of the water level increases in the area. Furthermore, clarify whether the decrease in water levels in wells MKTF-14 and MKTF-45 was caused by the fluid recovery events conducted in October and December 2020 rather than the idling of the plant in the 2021 first quarter status report.

Comment 2
In the *Activities conducted during fourth quarter 2020,* paragraph 2, page 1, the Permittee states, "[f]luid removal in MKTF wells upgradient of the hydrocarbon seep area, with recoverable SPH, was conducted in October and December of 2020 using a vacuum truck to control product migration. In October, 16.6 gallons of SPH were extracted. In December, 9.53 gallons were extracted." Provide a table listing all MKTF wells where fluid recovery events were conducted and the gauging data, if available, in the 2021 first quarter status report. If the gauging data was not collected at the time of fluid recovery, the Permittee must gauge fluid levels before and after conducting fluid recovery and when fluid level returns to the baseline condition (e.g., after 24 hours) in the future and report these data in future status reports.

Comment 3
In the *Activities conducted during fourth quarter 2020,* paragraph 4, page 1, the Permittee states, "Marathon submitted a revised workplan and address[ed] NMED's comments on January 4, 2021." NMED issued an approval with modifications on February 11, 2021 and required a response letter no later than **May 31, 2021**. This comment serves as a reminder; no revision is required.

Comment 4
In the *Activities conducted during fourth quarter 2020,* paragraph 1, page 2, the Permittee states, "Marathon also continues to evaluate PW-3 to determine if potable water is being lost through casing leaks." Describe the on-going efforts for the evaluation of well PW-3 in the 2021 first quarter status report.

Comment 5
In the *Activities planned for the first quarter 2021,* paragraph 4, page 2, the Permittee states, "gauging of existing monitoring wells near the Marketing Tank Farm indicates the gasoline is migrating to the north and may spread to the hydrocarbon seep area. Fluid recovery from

MKTF wells upgradient of the hydrocarbon seep area, with recoverable SPH, will be conducted monthly to help control product migration." The proposed measure to prevent the gasoline plume migrating north is likely too passive to prevent it from spreading. The source location of the gasoline plume was already identified to be originating from the underground product transfer line on the north side of the Truck loading rack. Therefore, a completion of the investigation required by the *Investigation Work Plan No. 2 Area of Concern 35*, dated February 2020, is not necessary in order to develop remediation strategies to eliminate the source of the gasoline plume. Submit an interim measure work plan to eliminate the source of the gasoline plume no later than **July 30, 2021.**

Comment 6

In the *Activities planned for the first quarter 2021*, paragraph 5, page 2, the Permittee states, "SPH has been detected in MKTF-33." Explain whether the SPH detected in well MKTF-33 is the same gasoline released from the underground product transfer line on the north side of the Truck loading rack and provide the gauging data collected from well MKTF-33 in the 2021 first quarter status report. If the SPH in well MKTF-33 is determined to be the same gasoline, describe how the determination was made. In this case, the plume is rapidly expanding west as well as north. If it is unknown, propose to identify the origin of the SPH in the response letter required by the NMED's February 11, 2021 *Approval with Modifications* (see Comment 3).

Furthermore, the Response to *Disapproval Investigation Work Plan No. 2 Area of Concern 35*, dated January 4, 2021, states that the first monitoring well is proposed to be located approximately 100 ft west of MTKF-17, and the work plan was approved by the NMED's February 11, 2021 *Approval with Modifications*. However, since SPH is now detected in well MKTF-33 located approximately 550 feet west of well MKTF-17, the proposed location of the monitoring well is no longer appropriate. The Permittee must change the proposed location to approximately halfway between wells MKTF-32 and MKTF-33 in order to delineate the SPH plume. Address the change in the response letter required by the NMED's February 11, 2021 *Approval with Modifications* (see Comment 3).

Comment 7

In the *Activities planned for the first quarter 2021*, paragraph 5, page 2, the Permittee states, "Marathon will conduct the Additional Laser Induced Fluorescence (LIF) Investigation in February 2021 to delineate SPH to the west of the Truck Loading Rack. Additionally, the LIF investigation will include locations along the road south of the Hydrocarbon Seep Area and south of Tank 102 to determine the extent of product migration to the north of the Truck Loading Rack." Provide a date when the LIF investigation report will be submitted to NMED in the 2021 first quarter status report.

The Permittee has fulfilled its obligation to implement source control measures to the extent practicable and submit a quarterly report to NMED. The Permittee must continue to implement source control measures at the site and submit the quarterly reports. The 2021 first quarter

status report that addresses all comments above must be submitted no later than **April 30, 2021**. In addition, a work plan required by Comment 5 must be submitted no later than **July 30, 2021**.

This approval is based on the information presented in the document as it relates to the objectives of the work identified by NMED at the time of review. Approval of this document does not constitute agreement with all information or every statement presented in the document.

If you have questions regarding this letter, please contact Michiya Suzuki of my staff at 505-476-6046.

Sincerely,

Dave Cobrain
Program Manager
Hazardous Waste Bureau

cc: M. Suzuki, NMED HWB
C. Chavez, OCD
T. McDill, OCD
L. King, EPA Region 6 (6LCRRC)

File: Reading File and WRG 2021 File

Western Refining Southwest, Inc.
A subsidiary of Marathon Petroleum Corporation
I-40 Exit 39
Jamestown, NM 87347

December 15, 2020

Mr. Kevin Pierard, Chief
New Mexico Environmental
Department Hazardous Waste Bureau
2905 Rodeo Park Drive East, Building 1
Santa Fe, NM 87505

RE: Response to Disapproval – Interim Measures Report
Hydrocarbon Seep Area
Response to Comment 12
Marathon Petroleum Company LP, Gallup Refinery
(dba Western Refining Southwest, Inc.)
EPA ID# NMD000333211
HWB-WRG-15-002

Dear Mr. Pierard:

Please find enclosed the discussed report from Comment 12 in the *Response to Disapproval, Interim Measures Report, Hydrocarbon Seep Area* regarding the anaerobic dechlorination pathway. If you have any questions or comments regarding the information contained herein, please do not hesitate to contact John Moore at 505-879-7643.

Certification

I certify under penalty of law that this document and all attachments were prepared under my direction of supervision according to a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,
Marathon Petroleum Company LP, Gallup Refinery

Robert S. Hanks

Robert S. Hanks
Refinery General Manager

Enclosure

cc: D. Cobrain, NMED HWB

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C. Chavez, OCD
G. McCartney, Marathon Petroleum Company
J. Moore, Marathon Gallup Refinery
H. Jones, Trihydro Corporation

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December 15, 2020

Mr. Kevin Pierard, Chief
New Mexico Environment Department
Hazardous Waste Bureau
2905 Rodeo Park Drive East, Building 1
Santa Fe, New Mexico 87505

RE: Natural Attenuation Assessment and Proposed Workplan for the Hydrocarbon Seep Area
Marathon Petroleum Company, LP, Gallup Refinery
(dba Western Refining Southwest, Inc.)
EPA ID# NMD000333211

Dear Mr. Pierard,

Marathon Petroleum Company LP, Gallup Refinery (MPC) is submitting this letter in response to a request from the New Mexico Environment Department (NMED) Hazardous Waste Bureau for an assessment of natural attenuation in the hydrocarbon seep area at the Gallup refinery. This request was contained in a letter dated February 1, 2018, entitled *Disapproval, Interim Measures Report Hydrocarbon Seep Area, Western Refining Southwest Inc., Gallup Refinery, EPA ID# NMD000333211, HWB-WRG-15-002*. The area identified includes the Marketing Tank Farm area in the southwest portion of the refinery (Figure 1).

More specifically, the request is presented in NMED Comment 12, #2 - #5; relevant portions of which are excerpted as follows:

> *2. The field analytical parameters such as dissolved oxygen concentration and oxidation-reduction potential (ORP) must be evaluated and presented to support the argument that reducing conditions and anaerobic degradation are occurring. Also, the ratio of total and dissolved iron concentrations must be examined to support the argument…*
> *3. …Revise the Report to propose submittal of a work plan to investigate the occurrence of anaerobic dichlorination.*
> *4. The accumulation of vinyl chloride may be occurring based on the site's groundwater conditions. In the plan referenced in Item 3 above, propose to monitor and evaluate the groundwater for analytical parameters pertinent to the accumulation of degradation of vinyl chloride (e.g., concentrations of daughter products, dissolved oxygen, chloride, redox potential and pH)…*

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5. The Permittee must evaluate for the occurrence of hydrocarbon and MTBE degradation (e.g. concentrations of the electron acceptors, degradation byproducts, redox potential, and pH). Include all findings and interpretation of the existing data in the revised Report.

Pursuant to the above request, this letter presents an evaluation of natural attenuation using existing monitoring well analytical data and proposes a workplan consisting of a similar evaluation of natural attenuation for future analyses, which would be included in annual reports, pending NMED approval.

Background

The Hydrocarbon Seep area is located in the western portion of the refinery to the southwest of the refinery tank farm. Historically, the Hydrocarbon Seep Area has been impacted by releases of petroleum hydrocarbons associated with refinery operation. Hydrocarbon seeps were discovered in 2013; subsequent Interim Measures activities identified the source, implemented source control measures, and characterized groundwater impacts.

Chlorinated hydrocarbons that have been detected above standards as part of routine quarterly sampling in the area include trichloroethene (TCE), 1,1-dichloroethane (1,1-DCA), and 1,2-dichloroethane (1,2-DCA), and vinyl chloride. Methyl tert-butyl alcohol (MTBE) has also been detected above standards. The TCE and 1,1-DCA may be associated with past degreasing operations at the refinery machine shop; 1,2-DCA is a lead scavenger compound that historically have been used in hydrocarbon fuels. MTBE was used as a fuel oxygenator. Figure 2 presents the most recent quarterly groundwater sampling results (3rd quarter 2020) for these constituents and benzene from the Hydrocarbon Seep Area, including detections of separate-phase hydrocarbon (SPH), also referred to as light non-aqueous phase liquid (LNAPL). Table 1 presents recent groundwater analytical data for monitoring wells in the Hydrocarbon Seep Area and nearby Marketing Tank Farm (MKTF) monitoring wells

Hydrogeology

Surface Conditions

Site topographic features include high ground in the southeast gradually decreasing to a lowland fluvial plain to the northwest. Elevations on the refinery property range from 7,040 feet to 6,860 feet. Surface soils within most of the area of investigation are primarily Rehobeth silty clay loam. Rehobeth soil properties include alkaline pH (ranging from 8 to 9 standard units) and salinity (naturally occurring and typically measuring up to approximately 8 mmhos/cm) (Marathon Petroleum Company 2019).

Local surface water features include the refinery evaporation ponds and a number of small ponds (one cattle water pond and two small unnamed spring fed ponds). The site is located in the

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Puerco River Valley, north of the Zuni Uplift with overland flows directed northward to the tributaries of the Puerco River. The Puerco River continues to the west to the confluence with the Little Colorado River. The South Fork of the Puerco River is intermittent and retains flow only during and immediately following precipitation events (Marathon Petroleum Company 2019).

Subsurface Conditions

The shallow subsurface soils consist of fluvial and alluvial deposits comprised of clay and silt with minor inter-bedded sand layers. Very low permeability bedrock (e.g., claystones and siltstones) underlie the surface soils and effectively form an aquitard. The Chinle Group, which is Upper Triassic, crops out over a large area on the southern margin of the San Juan Basin. The uppermost recognized local Formation is the Petrified Forest Formation and the Sonsela Sandstone Bed is the uppermost recognized regional aquifer (Marathon Petroleum Company 2019). Aquifer test of the Sonsela Bed northeast of Prewitt indicated a transmissivity of greater than 100 ft^2/day (Stone and others, 1983). The Sonsela Sandstone's highest point occurs southeast of the site and slopes downward to the northwest as it passes under the refinery. The Sonsela Sandstone forms a water-bearing reservoir with artesian conditions throughout the central and western portions of the refinery property.

The diverse properties and complex, irregular stratigraphy of the surface soils across the site cause a wide range of hydraulic conductivity ranging from less than 10^{-2} cm/sec for gravel like sands immediately overlying the Petrified Forest Formation to 10^{-8} cm/sec in the clay soils located near the surface (Western, 2009). Generally, shallow groundwater at the refinery follows the upper contact of the Petrified Forest Formation with prevailing flow from the southeast to the northwest.

In the Hydrocarbon Seep Area, three-dimensional geological modeling using available boring log information strongly suggests that the swale in the area of the hydrocarbon seep area is underlain by a corresponding swale in the shallow alluvium that likely influences shallow groundwater flow in this area. This is shown in Figure 3.

Natural Attenuation

Dissolved organic compounds can be degraded naturally in groundwater, with the rate dependent on the redox state of the groundwater and the presence of suitable electron receptors for microbial degradation (NJDEP 2012). Biodegradation under aerobic (oxidizing) conditions is generally faster than under anaerobic (reducing) conditions, but degradation occurs under both redox regimes.

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In general, reducing conditions are present in the subsurface where LNAPL and dissolved petroleum hydrocarbons are present in groundwater. This has been established by numerous studies (ITRC 2009, Lawrence 2006, and NJDEP 2012), and is generally recognized and accepted. This redox condition is caused by depletion of oxygen through aerobic biodegradation of the dissolved petroleum. A generalized diagram of typical hydrocarbon groundwater plume redox conditions is shown Figure 4. When a release of hydrocarbons occurs into groundwater, existing microbes catalyze reactions between the electron-donating carbon and the electron acceptors, in a sequence that is most favorable to the microbes (ITRC 2010). In general, the sequence of electron acceptor use is as follows:

$$O_2 > NO_3^- > Mn(III) \text{ or } Mn(IV) > Fe(III) > SO_4^{-2}$$

The presence of the oxidized inorganic compounds shown above indicates the potential for biodegradation. Moreover, the presence of the reduced forms of these species generally indicates active biodegradation.

The strongest reducing conditions are generally present in the source area of the hydrocarbon plume where LNAPL is present. More oxidizing (less reducing) conditions are generally present in the downgradient direction of the dissolved hydrocarbon plume, as shown in Figure 4. Figure 4 also shows the areas of the plume where redox conditions are sufficient to allow reduction of the indicated species.

Chlorinated organic compounds generally require anaerobic conditions for biodegradation. Figure 5 presents a list of chlorinated organic compounds and the likelihood of biodegradation through various degradation mechanisms/pathways. As shown in this figure, the primary mechanisms for biodegradation is reductive dechlorination and dichlorination.

More recent studies of MTBE aerobic biodegradation indicate that it is less recalcitrant than previously thought (Lawrence 2006). Anaerobic biodegradation proceeds more slowly under reducing conditions ranging from methanogenic to nitrate-reducing.

Evaluation of Current MNA Conditions

Table 1 presents recent groundwater analytical data from MKTF wells, including key organic and inorganic analytes, and pH. Table 2 presents oxidation reduction potential (ORP) field data from quarterly sampling from quarters 1, 3 and 4 in 2016 (Western 2017). The second quarter data were not available. Field measurement of ORP can be an indicator of the redox regime of groundwater, with the method of field measurement important to the absolute value of the results. In general, for more accurate measurements of ORP, a groundwater sampling pump and a flow-through cell for well purging and measuring ORP is preferred because this configuration

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eliminates contact with air. For the ORP data presented in Table 2, measurements were conducted using bailed water from a well, which was then placed into a container for ORP measurement. This procedure introduces oxygen, and actual in situ groundwater conditions would be expected to have a lower, more reducing ORP. Nevertheless, the data in Table 1 can be evaluated in a relative sense for trends.

Current conditions and available geochemical data provide evidence that reducing conditions are present in the Hydrocarbon Seep Area. These reducing conditions create a geochemical environment for the anaerobic biodegradation of petroleum hydrocarbons and may also be conducive to the anaerobic biodegradation of chlorinated hydrocarbons TCE, 1,1-DCA and 1,2-DCA.

Evidence for conditions favorable for anaerobic biodegradation of chlorinated compounds includes:

- Elevated benzene concentrations, indicating that a high dissolved hydrocarbon load is present and anaerobic conditions are likely. LNAPL is also present in several areas (Figure 1) which represents a continuing source for dissolved phase hydrocarbons.
- Detection of vinyl chloride, which is typically a byproduct of TCE degradation.
- Presence of dissolved iron and total iron, indicating likely presence of ferrous iron in response to reducing conditions and anaerobic biodegradation
- Depleted sulfate in wells with elevated benzene (e.g. MKTF-10, MKTF-16, MKTF-17), indicating reducing condition and sulfate reduction to sulfite as part of anaerobic biodegradation.
- Presence of manganese, indicating availability as an electron receptor for anaerobic biodegradation.
- Occasional detection of nitrite above detection limits, indicating reducing conditions and probable use of nitrate as an electron receptor for anaerobic biodegradation.
- Given the evidence for reducing conditions presented above, anaerobic degradation of MTBE is more likely than aerobic degradation
- pH conditions appear favorable for biodegradation

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- ORP measurements indicate reducing conditions are present, particularly for MKTF wells located in the paved areas where LNAPL (separate phase hydrocarbon [SPH]) is present (see Figure 1). Wells located to the west in unpaved areas without LNAPL and elevated dissolved hydrocarbon such as benzene are generally oxidizing.

Chloride concentrations are generally elevated in the MKTF wells, as shown in Table 1, but do not correlate with areas of elevated chlorinated organic compounds. In the absence of high chloride from other sources, elevated chloride can be used as an indicator of the biodegradation of chlorinated compounds (NJDEP 2012).

To date, insufficient monitoring well analytical data is available to perform a statistical analysis of concentration trends. As more date become available, contaminant trend plots can be developed and statistical analysis can be performed.

Proposed Workplan for Natural Attenuation Evaluation for Future Annual Reports
The proposed workplan to evaluate natural attenuation is presented in this section for NMED review and approval. MPC proposes that a natural attenuation evaluation section be completed on an annual basis using the existing quarterly sampling analyte list as shown in Table 3 as lines of evidence. These lines of evidence will include:

- Benzene, MTBE, 1,1-DCA, 1,2-DCA, TCE, and vinyl chloride analytical results
- Inorganic analyses including dissolved/total analyses for iron and manganese, nitrate/nitrate, pH and sulfate to determine their availability as terminal electron receptors and the redox state. A table of the results will be prepared.
- Field measurements conducted during quarterly sampling and well purging (pH, ORP and dissolved oxygen)
- As more data become available, and trends become evident, a Mann-Kendall statistical analysis will be performed to quantify contaminant concentration trends.

Tables will be added to future annual reports with these analytes, and a new section will be added to present these key data and to summarize natural attenuation progress, including trends in contaminant concentrations and key MNA indicators. MPC expects to initiate this the year following NMED approval.

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Tables

TABLE 1. MNA ANALYTICAL DATA
MARATHON PETROLEUM COMPANY, GALLUP, NEW MEXICO

Location ID	Date Sampled	Benzene (ε g/L)	Trichloro-ethene (ε g/L)	1,1-Dichloro-ethane (ε g/L)	1,2- Dichloro-ethane (ε g/L)	MTBE (ε g/L)	Vinyl Chloride (ε g/L)	Chloride (mg/L)	Iron, Dissolved (mg/L)	Iron, Total (mg/L)	Manganese, Dissolved (mg/L)	Manganese, Total (mg/L)	Nitrogen, Nitrate (ε g/L)	Nitrogen, Nitrite (ε g/L)	Sulfate (mg/L)
MKTF-02	03/28/19	**620**	ND(20)	**16**	**6.9**	**47**	**13**	1400	0.42	**1.6**	1.6	**1.5**	--	--	52
	05/06/19	**950**	ND(20)	**19**	**6.4**	**49**	**19**	1600	3	**3.9**	1.8	**1.9**	ND(500)	ND(500)	61
	08/23/19	**990**	ND(20)	**27**	**12**	**51**	**28**	2000	2.4	**9.1**	2	**2.3**	ND(500)	ND(2000)	150
	11/19/19	**360**	ND(5)	**15**	**4.7**	**23**	**17**	--	--	**5.7**	--	**2.9**	--	--	--
	02/25/20	**780**	ND(5)	**6.5**	**2**	9.1	**5**	1300	0.34	**2**	3	**3**	ND(500)	ND(500)	160
	09/15/20	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/21/20	**4000**	ND(1)	**21**	ND(1)	**61**	**27**	1000	0.22	0.99	1.9	**2**	ND(500)	ND(500)	64
MKTF-04	05/13/19	**770**	**0.87**	**5.4**	**1.6**	**1700**	ND(5)	260	4.5	**8**	1.6	**1.6**	ND(500)	ND(500)	5.6
	08/21/19	**530**	**0.83**	**13**	**1.5**	**1600**	ND(1)	220	1.5	**5.9**	2	**2.2**	120	ND(500)	16
	10/30/19	**930**	ND(5)	**5.5**	ND(5)	**1800**	ND(5)	210	5.4	**7.6**	1.5	**1.6**	ND(500)	ND(500)	2.9
	03/03/20	**800**	ND(5)	**9.1**	**2.3**	**2100**	ND(5)	220	1.4	**6**	1.8	**1.9**	ND(500)	ND(500)	9.3
MKTF-09	05/13/19	**3200**	ND(10)	**6.8**	ND(10)	**310**	ND(10)	250	3.2	**3.8**	4.6	**4.8**	ND(500)	ND(500)	8.1
	08/28/19	**3500**	ND(20)	**14**	ND(20)	**420**	ND(20)	230	3.8	**4.5**	4.4	**4.5**	ND(500)	ND(500)	12
	11/18/19	**3700**	ND(10)	**11**	ND(10)	**450**	ND(10)	220	2.4	**3.4**	4.2	**4.3**	ND(500)	ND(500)	25
	03/03/20	**3300**	ND(20)	**19**	ND(20)	**530**	ND(20)	290	1.4	**2.7**	3.9	**4**	ND(500)	ND(500)	43
MKTF-10	05/13/19	**5500**	ND(50)	**27**	ND(50)	**24**	**23**	460	8.4	**8.9**	3.4	**3.6**	ND(500)	ND(500)	ND(2.5)
	08/22/19	**4600**	ND(10)	**37**	ND(10)	**19**	**10**	960	7.9	**11**	5.4	**5.6**	100	ND(500)	ND(2.5)
	10/30/19	**5500**	ND(10)	**31**	ND(10)	**17**	**10**	1000	14	**15**	6.2	**6.3**	ND(500)	ND(500)	ND(2.5)
	03/03/20	**4800**	ND(10)	**47**	ND(10)	9.4	**8.9**	970	7.2	**12**	5.4	**5.5**	ND(500)	ND(500)	ND(2.5)
MKTF-11	05/13/19	**6100**	ND(50)	**55**	ND(50)	**46**	**44**	760	3.1	**5**	2.4	**2.6**	ND(500)	ND(500)	6.3
	08/21/19	**9100**	ND(10)	**39**	ND(10)	**28**	**28**	620	3.4	**3.9**	2	**1.9**	ND(500)	**570**	1.8
	10/30/19	**13000**	ND(20)	**27**	ND(20)	**41**	**23**	750	3.6	**4.9**	2.8	**2.5**	ND(500)	ND(500)	4.4
	03/03/20	**6000**	ND(20)	**35**	ND(20)	**59**	**27**	1500	5.2	**8.5**	4.8	**4.6**	ND(500)	ND(500)	19
MKTF-13	03/26/19	**3500**	ND(20)	ND(20)	ND(20)	**440**	ND(20)	390	24	**25**	5.1	**4.7**	--	--	0.75
	05/09/19	**3200**	ND(20)	ND(20)	ND(20)	**480**	ND(20)	400	25	**35**	5.3	**6.1**	ND(500)	ND(500)	1.1
	10/29/19	**4700**	ND(20)	ND(20)	ND(20)	**330**	ND(20)	290	15	**20**	4.6	**4.7**	ND(500)	ND(500)	0.59
MKTF-15	05/13/19	**18000**	ND(50)	**25**	ND(50)	**68**	**26**	3900	26	**31**	8.2	**8.4**	ND(500)	ND(2000)	0.44
MKTF-16	02/20/19	**21000**	ND(100)	**53**	ND(100)	**610**	ND(100)	590	2	**5.8**	1.7	**1.7**	ND(500)	ND(500)	0.41
	05/14/19	**14000**	ND(100)	ND(100)	ND(100)	**620**	ND(100)	960	5.8	**5.8**	2.6	**3**	ND(500)	ND(500)	0.68
	08/22/19	**9800**	ND(100)	**64**	ND(100)	**550**	ND(100)	--	--	--	--	--	--	--	--
	08/30/19	--	--	--	--	--	--	1800	21	**24**	7.1	**6.8**	ND(500)	ND(2000)	ND(2.5)
	10/30/19	**15000**	ND(100)	**69**	ND(100)	**620**	ND(100)	1700	15	**17**	5.5	**4.9**	ND(500)	ND(500)	ND(2.5)
MKTF-17	05/09/19	**2200**	ND(5)	ND(5)	ND(5)	**4300**	ND(5)	100	0.27	**5.4**	3	**3.1**	ND(500)	ND(500)	15
	08/20/19	**870**	ND(5)	ND(5)	ND(5)	**4300**	ND(5)	140	0.37	**3**	2.8	**3**	ND(500)	ND(500)	14
	10/29/19	**12000**	ND(5)	ND(5)	ND(5)	**2500**	ND(5)	240	0.45	**4.8**	3.5	**3.4**	ND(500)	ND(500)	6.2
MKTF-18	05/16/19	**140**	ND(2)	ND(2)	ND(2)	**130**	ND(2)	190	2	**3.8**	2.1	**2.2**	ND(500)	ND(500)	ND(2.5)
	10/29/19	**160**	ND(2)	ND(2)	ND(2)	**88**	ND(2)	220	0.65	**3.4**	2.1	**2**	ND(500)	ND(500)	0.57
	02/06/20	**190**	ND(2)	0.51	ND(2)	**110**	ND(2)	200	2.7	**9.8**	2.9	**3.7**	ND(500)	ND(500)	ND(2.5)
MKTF-19	05/09/19	**1800**	ND(20)	ND(20)	ND(20)	**7800**	ND(20)	140	11	**15**	2.4	**2.7**	ND(500)	ND(500)	0.31
	08/19/19	**1400**	ND(20)	ND(20)	ND(20)	**8300**	ND(20)	140	11	**19**	2.3	**2.7**	ND(500)	ND(500)	ND(2.5)
	10/29/19	**1600**	ND(20)	ND(20)	ND(20)	**7900**	ND(20)	130	10	**15**	2.4	**2.4**	ND(500)	ND(500)	0.5
MKTF-20	02/20/19	**2100**	ND(10)	ND(10)	ND(10)	**220**	ND(10)	760	47	**58**	5.5	**5.5**	ND(500)	ND(500)	11
	05/14/19	**2300**	ND(10)	ND(10)	ND(10)	**32**	ND(10)	3400	22	**25**	9	**8.5**	ND(500)	ND(2000)	36
	08/21/19	**4800**	ND(10)	ND(10)	ND(10)	**35**	ND(10)	3300	20	**19**	8.1	**7.5**	ND(500)	**3300**	2.8
	11/05/19	**2400**	ND(10)	ND(10)	ND(10)	**170**	ND(10)	140	2.2	**4.3**	2.1	**2**	ND(500)	ND(500)	1.7
	02/05/20	**620**	ND(10)	ND(10)	ND(5)	5.7	ND(10)	--	--	--	--	--	--	--	--
MKTF-21	02/20/19	**2000**	ND(20)	ND(20)	ND(20)	**15**	ND(20)	4600	57	**63**	14	**15**	ND(500)	**1600**	880
	05/14/19	**2400**	ND(20)	ND(20)	ND(20)	**290**	ND(20)	540	33	**42**	5.6	**5.7**	ND(500)	ND(500)	6.9
USEPA RSL Tap Water HQ 0.1		0.46	0.28	2.8	0.17	14	0.019	NA	NA	1.4	NA	0.043	3,200	200	NA

Notes:
MNA - monitored natural attenuation
ug/L - micrograms per liter
mg/L - milligrams per liter
Std Units - Standard Units
USEPA RSL Tap Water 0.1 - United States Environmental Protection Agency Regional Screening Levels for Tap Water, Hazard Quotient 0.1, May 2020
pH results only shown for 3rd Quarter 2020 sampling event

TABLE 1. MNA ANALYTICAL DATA
MARATHON PETROLEUM COMPANY, GALLUP, NEW MEXICO

Location ID	Date Sampled	pH, Field (Std Units)
MKTF-02	03/28/19	--
	05/06/19	--
	08/23/19	--
	11/19/19	--
	02/25/20	--
	09/15/20	6.72
	09/21/20	--
MKTF-04	05/13/19	--
	08/21/19	--
	10/30/19	--
	03/03/20	--
MKTF-09	05/13/19	--
	08/28/19	--
	11/18/19	--
	03/03/20	--
MKTF-10	05/13/19	--
	08/22/19	--
	10/30/19	--
	03/03/20	--
MKTF-11	05/13/19	--
	08/21/19	--
	10/30/19	--
	03/03/20	--
MKTF-13	03/26/19	--
	05/09/19	--
	10/29/19	--
MKTF-15	05/13/19	--
MKTF-16	02/20/19	--
	05/14/19	--
	08/22/19	--
	08/30/19	--
	10/30/19	--
MKTF-17	05/09/19	--
	08/20/19	--
	10/29/19	--
MKTF-18	05/16/19	--
	10/29/19	--
	02/06/20	--
MKTF-19	05/09/19	--
	08/19/19	--
	10/29/19	--
MKTF-20	02/20/19	--
	05/14/19	--
	08/21/19	--
	11/05/19	--
	02/05/20	--
MKTF-21	02/20/19	--
	05/14/19	--
USEPA RSL Tap Water HQ 0.1		NA

Notes:
MNA - monitored natural attenuation
ug/L - micrograms per liter
mg/L - milligrams per liter
Std Units - Standard Units
USEPA RSL Tap Water 0.1 - United States Environmental Protection Agency Regional Screening Levels for Tap Water, Hazard Quotient 0.1, May 2020
pH results only shown for 3rd Quarter 2020 sampling event

TABLE 1. MNA ANALYTICAL DATA
MARATHON PETROLEUM COMPANY, GALLUP, NEW MEXICO

Location ID	Date Sampled	Benzene (ε g/L)	Trichloro-ethene (ε g/L)	1,1-Dichloro-ethane (ε g/L)	1,2- Dichloro-ethane (ε g/L)	MTBE (ε g/L)	Vinyl Chloride (ε g/L)	Chloride (mg/L)	Iron, Dissolved (mg/L)	Iron, Total (mg/L)	Manganese, Dissolved (mg/L)	Manganese, Total (mg/L)	Nitrogen, Nitrate (ε g/L)	Nitrogen, Nitrite (ε g/L)	Sulfate (mg/L)
MKTF-21	08/22/19	**5400**	ND(20)	ND(20)	ND(20)	**290**	ND(20)	230	16	**21**	3.4	**3.3**	ND(500)	ND(500)	6.2
	11/05/19	**5600**	ND(20)	ND(20)	ND(20)	**29**	ND(20)	2300	8.3	**9**	6.2	**5.8**	ND(500)	ND(500)	19
	02/05/20	**58**	ND(5)	ND(5)	ND(5)	**50**	ND(5)	--	--	--	--	--	--	--	--
MKTF-22	05/09/19	**3500**	ND(20)	**11**	ND(20)	**3300**	ND(20)	170	7.3	**11**	2.6	**3.1**	ND(500)	ND(500)	13
	08/20/19	**3200**	ND(20)	**13**	ND(20)	**2700**	ND(20)	200	6.8	**8.5**	2.6	**2.9**	ND(500)	ND(500)	4.7
	10/24/19	**3400**	ND(20)	**13**	ND(20)	**2600**	ND(20)	190	6.8	**12**	2.9	**2.9**	ND(500)	ND(500)	2.9
MKTF-23	10/29/19	**4800**	ND(100)	**61**	ND(100)	**330**	**53**	440	0.16	0.51	2	**1.9**	ND(500)	ND(500)	1.7
MKTF-24	05/06/19	**3000**	ND(20)	**47**	**6.6**	**110**	**22**	1000	5.7	**8.3**	2.3	**2.6**	ND(500)	ND(500)	42
	08/23/19	**4100**	ND(20)	**53**	ND(20)	**110**	**38**	800	1.6	**5.3**	2.2	**2.1**	ND(500)	**800**	34
	10/23/19	**5000**	ND(20)	**33**	**9.3**	**110**	**37**	660	0.59	0.9	2.4	**2.3**	ND(500)	ND(500)	20
	11/19/19	--	--	--	--	--	--	--	--	--	--	--	ND(500)	ND(500)	--
	02/25/20	**2900**	ND(20)	**38**	**10**	**110**	**28**	940	0.08	**1.9**	1.9	**2.2**	120	ND(500)	27
	09/15/20	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/19/20	**6100**	ND(20)	**41**	ND(20)	**120**	**37**	950	0.26	**32**	1.9	**4.4**	--	--	35
MKTF-25	05/06/19	**370**	**12**	**140**	**6.1**	**290**	**7**	860	0.21	**4.7**	1.8	**2.2**	ND(500)	ND(500)	52
	08/27/19	**130**	**13**	**130**	**10**	**850**	ND(5)	1100	0.25	**1.8**	3.6	**3.9**	ND(500)	**880**	68
	10/23/19	**370**	**11**	**110**	**9.1**	**880**	**3.3**	1400	0.28	**10**	5.4	**5.8**	ND(500)	ND(500)	73
	11/18/19	--	--	--	--	--	--	--	--	--	--	--	14	ND(2000)	--
	02/27/20	**420**	**12**	**100**	**8.8**	**620**	**4.2**	980	0.13	**5.6**	3.2	**3.4**	--	--	76
MKTF-27	03/28/19	ND(1)	ND(1)	ND(1)	ND(1)	1.8	ND(1)	3500	0.12	1.1	0.011	**0.077**	--	--	1200
	05/06/19	ND(1)	ND(1)	0.83	**0.33**	**19**	ND(1)	4000	0.023	**2.2**	0.17	**0.7**	**5500**	ND(2000)	980
	08/21/19	**9.7**	ND(1)	1.6	ND(1)	**24**	ND(1)	3400	0.0089	1.1	0.32	**0.58**	2800	**3200**	770
	10/23/19	ND(1)	ND(1)	1.1	**0.53**	14	ND(1)	2900	0.017	0.19	0.048	**0.13**	1200	ND(500)	570
	02/25/20	ND(1)	ND(1)	0.43	ND(1)	6	ND(1)	7000	0.029	1.3	0.065	**0.32**	**5700**	ND(2000)	1100
	09/15/20	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/20/20	**0.86**	ND(1)	1.3	**0.39**	**29**	ND(1)	2700	0.015	0.21	0.23	**0.45**	560	ND(2000)	520
MKTF-28	03/28/19	ND(1)	ND(1)	ND(1)	ND(1)	0.82	ND(1)	420	0.022	1.4	0.0036	**0.094**	--	--	180
	05/06/19	ND(1)	ND(1)	ND(1)	ND(1)	0.74	ND(1)	470	0.029	**3.9**	0.004	**0.26**	1100	ND(500)	200
	08/21/19	ND(1)	ND(1)	ND(1)	ND(1)	4.5	ND(1)	470	ND(0.02)	0.79	0.023	**0.074**	910	**490**	180
	10/22/19	ND(1)	ND(1)	ND(1)	ND(1)	4.9	ND(1)	460	0.023	**1.6**	0.037	**0.12**	560	ND(500)	190
	02/25/20	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	570	ND(0.02)	**2**	0.00042	**0.11**	260	ND(500)	160
	09/15/20	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/20/20	ND(1)	ND(1)	ND(1)	ND(1)	2.3	ND(1)	630	0.012	0.51	0.015	**0.088**	250	ND(500)	130
MKTF-29	03/28/19	ND(1)	ND(1)	ND(1)	ND(1)	4.1	ND(1)	190	0.02	0.57	0.59	**0.6**	--	--	540
	05/06/19	ND(1)	ND(1)	ND(1)	ND(1)	4.8	ND(1)	260	0.016	1.2	0.66	**0.71**	ND(500)	ND(500)	540
	08/23/19	ND(1)	ND(1)	ND(1)	ND(1)	8.6	ND(1)	610	0.0092	0.27	1.1	**1.1**	97	**460**	440
	10/22/19	ND(1)	ND(1)	0.56	ND(1)	12	ND(1)	1000	ND(0.02)	0.66	2	**2.1**	ND(500)	ND(500)	320
	11/18/19	--	--	--	--	--	--	--	--	--	--	--	72	ND(2000)	--
	02/25/20	ND(1)	ND(1)	0.45	ND(1)	**15**	ND(1)	1500	ND(0.02)	0.04	2.5	**2.4**	ND(500)	ND(500)	230
	09/15/20	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/20/20	ND(1)	ND(1)	0.29	ND(1)	**19**	ND(1)	18000	0.012	0.033	4.2	**4.5**	140	ND(2000)	160
MKTF-30	03/28/19	ND(1)	**1.6**	**27**	**1.1**	1.3	ND(1)	410	0.043	**9.5**	0.0065	**0.41**	--	--	510
	05/06/19	ND(1)	**2.1**	**36**	**1.2**	1.8	ND(1)	410	0.012	**5.3**	0.0099	**0.21**	ND(500)	ND(500)	540
	08/23/19	ND(1)	**2.6**	**39**	**1.7**	1	ND(1)	480	ND(0.02)	**7**	0.0014	**0.95**	220	**370**	570
	10/23/19	ND(1)	**3**	**47**	**2.1**	1.5	ND(1)	480	0.013	**4.9**	0.0013	**0.5**	ND(500)	ND(500)	480
	11/18/19	--	--	--	--	--	--	--	--	--	--	--	160	ND(2000)	--
	02/27/20	ND(1)	**2.6**	**35**	**1.6**	2	ND(1)	520	ND(0.02)	**1.9**	0.0011	**0.27**	140	ND(500)	530
	09/15/20	--	--	--	--	--	--	--	--	--	--	--	--	--	--
USEPA RSL Tap Water HQ 0.1		0.46	0.28	2.8	0.17	14	0.019	NA	NA	1.4	NA	0.043	3,200	200	NA

Notes:
MNA - monitored natural attenuation
ug/L - micrograms per liter
mg/L - milligrams per liter
Std Units - Standard Units
USEPA RSL Tap Water 0.1 - United States Environmental Protection Agency Regional Screening Levels for Tap Water, Hazard Quotient 0.1, May 2020
pH results only shown for 3rd Quarter 2020 sampling event

TABLE 1. MNA ANALYTICAL DATA
MARATHON PETROLEUM COMPANY, GALLUP, NEW MEXICO

Location ID	Date Sampled	pH, Field (Std Units)
MKTF-21	08/22/19	--
	11/05/19	--
	02/05/20	--
MKTF-22	05/09/19	--
	08/20/19	--
	10/24/19	--
MKTF-23	10/29/19	--
MKTF-24	05/06/19	--
	08/23/19	--
	10/23/19	--
	11/19/19	--
	02/25/20	--
	09/15/20	7.55
	09/19/20	--
MKTF-25	05/06/19	--
	08/27/19	--
	10/23/19	--
	11/18/19	--
	02/27/20	--
MKTF-27	03/28/19	--
	05/06/19	--
	08/21/19	--
	10/23/19	--
	02/25/20	--
	09/15/20	6.81
	09/20/20	--
MKTF-28	03/28/19	--
	05/06/19	--
	08/21/19	--
	10/22/19	--
	02/25/20	--
	09/15/20	7.35
	09/20/20	--
MKTF-29	03/28/19	--
	05/06/19	--
	08/23/19	--
	10/22/19	--
	11/18/19	--
	02/25/20	--
	09/15/20	7.07
	09/20/20	--
MKTF-30	03/28/19	--
	05/06/19	--
	08/23/19	--
	10/23/19	--
	11/18/19	--
	02/27/20	--
	09/15/20	7.52
USEPA RSL Tap Water HQ 0.1		NA

Notes:
MNA - monitored natural attenuation
ug/L - micrograms per liter
mg/L - milligrams per liter
Std Units - Standard Units
USEPA RSL Tap Water 0.1 - United States Environmental Protection Agency Regional Screening Levels for Tap Water, Hazard Quotient 0.1, May 2020
pH results only shown for 3rd Quarter 2020 sampling event

TABLE 1. MNA ANALYTICAL DATA
MARATHON PETROLEUM COMPANY, GALLUP, NEW MEXICO

Location ID	Date Sampled	Benzene (ε g/L)	Trichloro-ethene (ε g/L)	1,1-Dichloro-ethane (ε g/L)	1,2- Dichloro-ethane (ε g/L)	MTBE (ε g/L)	Vinyl Chloride (ε g/L)	Chloride (mg/L)	Iron, Dissolved (mg/L)	Iron, Total (mg/L)	Manganese, Dissolved (mg/L)	Manganese, Total (mg/L)	Nitrogen, Nitrate (ε g/L)	Nitrogen, Nitrite (ε g/L)	Sulfate (mg/L)
MKTF-30	09/20/20	ND(1)	**1.6**	**36**	**1.6**	3.5	ND(1)	510	ND(0.02)	**3.3**	0.0016	**0.44**	110	ND(500)	520
MKTF-31	02/20/19	**1**	**6.1**	**52**	**30**	**120**	ND(1)	760	ND(0.02)	**1.7**	0.017	**0.06**	ND(500)	ND(500)	65
	05/06/19	0.45	**4.1**	**35**	**19**	**90**	ND(1)	1200	ND(0.02)	**2.1**	0.011	**0.052**	250	ND(500)	110
	08/23/19	**0.72**	**4.8**	**39**	**23**	**110**	ND(1)	820	0.027	**2**	0.021	**0.074**	ND(500)	**910**	82
	10/22/19	**0.6**	**4.4**	**36**	**21**	**100**	**0.46**	770	ND(0.02)	**3.8**	0.015	**0.17**	95	ND(500)	72
	11/18/19	--	--	--	--	--	--	--	--	--	--	--	52	ND(2000)	--
	02/25/20	**0.92**	**5.7**	**39**	**28**	**180**	ND(1)	820	ND(0.02)	1	0.016	**0.059**	ND(500)	ND(500)	68
	09/15/20	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/19/20	**0.66**	**5.8**	**48**	**24**	**190**	ND(1)	550	0.05	**3.3**	0.061	**0.14**	--	--	59
MKTF-32	02/13/19	ND(2)	ND(2)	**13**	**15**	**840**	ND(2)	420	ND(0.02)	0.17	0.059	**0.079**	ND(500)	ND(500)	89
	05/07/19	ND(2)	**0.34**	**13**	**14**	**740**	ND(2)	450	0.023	**1.5**	0.071	**0.12**	ND(500)	**300**	93
	08/20/19	0.31	0.28	**14**	**15**	**610**	ND(1)	400	ND(0.02)	1.2	0.11	**0.11**	410	ND(500)	92
	10/23/19	0.36	ND(2)	**12**	**14**	**670**	ND(2)	400	0.059	**5.5**	0.043	**0.16**	ND(500)	ND(500)	90
	02/27/20	ND(2)	ND(2)	**10**	**13**	**900**	ND(2)	400	ND(0.02)	0.44	0.074	**0.1**	ND(500)	ND(500)	91
	09/14/20	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/21/20	ND(2)	ND(2)	**15**	**13**	**1100**	ND(2)	370	ND(0.02)	ND(0.05)	0.16	**0.065**	ND(500)	ND(500)	84
MKTF-33	05/09/19	ND(1)	ND(1)	ND(1)	ND(1)	**300**	ND(1)	110	0.016	**4.4**	0.081	**0.32**	160	ND(500)	240
	08/20/19	ND(1)	ND(1)	ND(1)	ND(1)	**730**	ND(1)	110	0.12	**2.6**	0.44	**0.57**	140	ND(500)	170
	10/24/19	ND(2)	ND(2)	ND(2)	ND(2)	**670**	ND(2)	110	0.052	**4.5**	0.38	**0.48**	ND(500)	ND(500)	190
	02/28/20	**82**	ND(2)	ND(2)	ND(2)	**800**	ND(2)	130	0.032	0.93	0.31	**0.34**	310	ND(500)	170
MKTF-34	05/09/19	ND(1)	**0.49**	ND(1)	ND(1)	ND(1)	ND(1)	890	0.021	0.94	0.00082	0.024	**9700**	ND(500)	60
	08/19/19	ND(1)	**0.89**	ND(1)	ND(1)	ND(1)	ND(1)	740	ND(0.02)	**2**	ND(0.002)	**0.045**	**9700**	ND(500)	110
	10/29/19	ND(1)	**1**	ND(1)	ND(1)	0.58	ND(1)	450	ND(0.02)	1.3	0.00044	0.033	**14000**	ND(500)	200
	02/05/20	ND(1)	**0.4**	ND(1)	ND(1)	ND(1)	ND(1)	560	ND(0.02)	0.92	0.001	0.03	**16000**	ND(500)	82
	02/28/20	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	860	ND(0.02)	1.1	0.00059	0.037	**12000**	ND(500)	57
	09/14/20	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/16/20	ND(1)	**0.89**	ND(1)	ND(1)	ND(1)	ND(1)	490	1.9	**21**	0.078	**0.41**	**8400**	ND(500)	120
MKTF-35	05/16/19	**14**	ND(1)	ND(1)	ND(1)	**42**	ND(1)	250	3.6	**4.5**	3.3	**3.7**	ND(500)	ND(500)	80
	08/19/19	**22**	ND(1)	ND(1)	ND(1)	**26**	ND(1)	190	3.1	**9.8**	2.8	**4**	ND(500)	ND(500)	79
	10/29/19	**56**	ND(1)	0.68	ND(1)	**120**	ND(1)	220	3.4	**8.3**	2.9	**3.5**	ND(500)	ND(500)	36
	02/06/20	**6100**	ND(10)	ND(10)	ND(10)	**320**	ND(10)	240	0.065	**2.1**	2	**2**	ND(500)	ND(500)	ND(2.5)
	09/14/20	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/16/20	**4000**	ND(10)	ND(10)	ND(10)	**160**	ND(10)	360	4.2	**13**	3.1	**5**	ND(500)	ND(500)	ND(2.5)
MKTF-36	09/14/20	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/18/20	**9700**	ND(20)	ND(20)	ND(20)	**940**	ND(20)	240	11	**12**	1.6	**1.8**	110	ND(500)	ND(2.5)
MKTF-37	05/14/19	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	240	ND(0.02)	**1.6**	2.2	**2**	**3700**	ND(500)	600
	09/14/20	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/17/20	**1300**	**96**	**8.1**	**5.4**	**33**	ND(5)	190	11	**24**	1.2	**1.6**	ND(500)	ND(500)	2.1
MKTF-38	06/27/19	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	330	ND(0.02)	**4.1**	2.3	**2.5**	**4800**	ND(500)	600
	08/20/19	ND(1)	0.25	ND(1)	ND(1)	0.56	ND(1)	360	ND(0.02)	0.83	2.4	**2.6**	**5500**	ND(500)	560
	03/05/20	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	290	ND(0.02)	**3.8**	0.72	**1.4**	**12000**	150	420
	09/14/20	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/19/20	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	630	0.17	**4.4**	0.32	**1.3**	--	--	450
MKTF-39	06/05/19	**9.1**	ND(1)	0.41	ND(1)	ND(1)	**0.44**	9000	27	**27**	10	**10**	ND(500)	ND(2000)	140
	08/20/19	**8.3**	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	8900	25	**28**	9.6	**9.5**	--	--	4.5
	11/05/19	**10**	ND(1)	0.49	ND(1)	ND(1)	ND(1)	7500	29	**32**	6.8	**6.7**	--	--	1.2
	02/05/20	**9.4**	ND(2)	0.45	ND(2)	ND(2)	ND(2)	7500	23	**33**	6	**6.7**	--	--	1.3
	09/15/20	--	--	--	--	--	--	--	--	--	--	--	--	--	--
USEPA RSL Tap Water HQ 0.1		0.46	0.28	2.8	0.17	14	0.019	NA	NA	1.4	NA	0.043	3,200	200	NA

Notes:
MNA - monitored natural attenuation
ug/L - micrograms per liter
mg/L - milligrams per liter
Std Units - Standard Units
USEPA RSL Tap Water 0.1 - United States Environmental Protection Agency Regional Screening Levels for Tap Water, Hazard Quotient 0.1, May 2020
pH results only shown for 3rd Quarter 2020 sampling event

TABLE 1. MNA ANALYTICAL DATA
MARATHON PETROLEUM COMPANY, GALLUP, NEW MEXICO

Location ID	Date Sampled	pH, Field (Std Units)
MKTF-30	09/20/20	--
MKTF-31	02/20/19	--
	05/06/19	--
	08/23/19	--
	10/22/19	--
	11/18/19	--
	02/25/20	--
	09/15/20	6.43
	09/19/20	--
MKTF-32	02/13/19	--
	05/07/19	--
	08/20/19	--
	10/23/19	--
	02/27/20	--
	09/14/20	7.91
	09/21/20	--
MKTF-33	05/09/19	--
	08/20/19	--
	10/24/19	--
	02/28/20	--
MKTF-34	05/09/19	--
	08/19/19	--
	10/29/19	--
	02/05/20	--
	02/28/20	--
	09/14/20	7.42
	09/16/20	--
MKTF-35	05/16/19	--
	08/19/19	--
	10/29/19	--
	02/06/20	--
	09/14/20	6.72
	09/16/20	--
MKTF-36	09/14/20	6.87
	09/18/20	--
MKTF-37	05/14/19	--
	09/14/20	7.04
	09/17/20	--
MKTF-38	06/27/19	--
	08/20/19	--
	03/05/20	--
	09/14/20	7.8
	09/19/20	--
MKTF-39	06/05/19	--
	08/20/19	--
	11/05/19	--
	02/05/20	--
	09/15/20	6.74
USEPA RSL Tap Water HQ 0.1		NA

Notes:
MNA - monitored natural attenuation
ug/L - micrograms per liter
mg/L - milligrams per liter
Std Units - Standard Units
USEPA RSL Tap Water 0.1 - United States Environmental Protection Agency Regional Screening Levels for Tap Water, Hazard Quotient 0.1, May 2020
pH results only shown for 3rd Quarter 2020 sampling event

TABLE 1. MNA ANALYTICAL DATA
MARATHON PETROLEUM COMPANY, GALLUP, NEW MEXICO

Location ID	Date Sampled	Benzene (ε g/L)	Trichloro-ethene (ε g/L)	1,1-Dichloro-ethane (ε g/L)	1,2- Dichloro-ethane (ε g/L)	MTBE (ε g/L)	Vinyl Chloride (ε g/L)	Chloride (mg/L)	Iron, Dissolved (mg/L)	Iron, Total (mg/L)	Manganese, Dissolved (mg/L)	Manganese, Total (mg/L)	Nitrogen, Nitrate (ε g/L)	Nitrogen, Nitrite (ε g/L)	Sulfate (mg/L)
MKTF-39	09/19/20	**18**	ND(2)	0.63	ND(2)	ND(2)	**0.44**	6200	25	**29**	4.1	**4.5**	--	--	2.6
MKTF-40	02/20/19	ND(1)	ND(1)	1	**0.28**	ND(1)	ND(1)	3100	0.035	**2.7**	0.0029	**0.053**	ND(500)	ND(2000)	550
	05/06/19	ND(1)	ND(1)	0.66	ND(1)	ND(1)	ND(1)	3200	0.034	**3.7**	0.0019	**0.063**	ND(500)	**3300**	560
	08/22/19	ND(1)	ND(1)	0.78	ND(1)	ND(1)	ND(1)	3500	0.098	**6.9**	0.0068	**0.25**	81	ND(2000)	500
	10/22/19	ND(1)	ND(1)	0.76	**0.44**	0.72	ND(1)	2800	0.032	**2.3**	0.021	**0.056**	170	ND(2000)	540
	11/19/19	--	--	--	--	--	--	--	--	--	--	--	ND(500)	ND(2000)	--
	02/28/20	ND(1)	ND(1)	0.64	**0.37**	0.76	ND(1)	2900	0.01	**7.7**	0.00047	**0.38**	140	ND(2000)	530
	09/15/20	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/19/20	ND(1)	ND(1)	0.79	ND(1)	0.58	ND(1)	3000	0.013	**7.2**	0.00091	**0.33**	--	--	450
MKTF-41	02/13/19	ND(1)	ND(1)	**4.3**	**3.7**	0.99	ND(1)	840	ND(0.02)	0.16	0.0085	0.014	**5600**	ND(500)	61
	05/07/19	ND(1)	ND(1)	**3**	**2.5**	0.87	ND(1)	910	ND(0.02)	0.73	0.0023	0.028	**4800**	**780**	62
	08/22/19	ND(1)	ND(1)	**3.9**	**3.3**	1.2	ND(1)	840	0.022	**7.3**	0.0024	**0.45**	**4800**	ND(500)	59
	10/23/19	ND(1)	ND(1)	**3.1**	**3**	1.3	ND(1)	800	0.0091	**2.2**	0.0013	**0.067**	**4800**	ND(500)	58
	02/27/20	ND(1)	ND(1)	**3.3**	**3.1**	1.2	ND(1)	880	ND(0.02)	0.039	0.0051	0.008	**5300**	190	61
	09/14/20	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/21/20	ND(1)	ND(1)	**5.2**	**4.1**	1	ND(1)	770	ND(0.02)	0.02	0.006	0.0064	**5400**	**250**	60
MKTF-42	02/13/19	**17**	ND(1)	0.69	**2.3**	4.4	ND(1)	1100	ND(0.02)	0.17	0.044	**0.055**	150	ND(500)	87
	05/07/19	**7**	ND(2)	ND(2)	**1.6**	4	ND(2)	1100	0.037	0.15	0.11	**0.12**	70	**910**	89
	08/22/19	**9.6**	ND(2)	ND(2)	**1.9**	4.1	ND(2)	1000	0.049	0.16	0.11	**0.11**	ND(500)	**850**	89
	10/23/19	**11**	ND(2)	1.1	**2.3**	4.4	ND(2)	940	0.03	0.19	0.1	**0.11**	ND(500)	ND(500)	83
	02/27/20	**22**	ND(1)	0.74	**2.4**	4.2	ND(1)	1100	ND(0.1)	0.069	0.05	**0.051**	ND(500)	ND(500)	84
	09/14/20	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/21/20	**29**	ND(1)	1.2	**4.3**	3.5	ND(1)	880	ND(0.02)	0.031	0.041	0.042	120	ND(500)	100
MKTF-43	02/13/19	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	4300	0.011	**1.7**	0.3	**1.1**	**22000**	ND(2000)	410
	05/08/19	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	3600	ND(0.02)	1.4	0.53	**0.71**	**19000**	ND(2000)	340
	08/22/19	0.35	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	5100	ND(0.02)	**3.3**	0.77	**1.1**	**18000**	ND(2000)	560
	10/24/19	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	5100	0.014	**3**	0.45	**1.1**	**12000**	ND(2000)	540
	02/27/20	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	5600	0.0097	**1.7**	0.0079	**0.47**	**11000**	ND(2000)	640
	09/14/20	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/21/20	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	6900	ND(0.02)	0.3	1.7	**1.4**	**3500**	ND(2000)	790
MKTF-44	02/13/19	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	1500	0.025	**6.7**	0.0027	**0.14**	**9900**	**350**	89
	05/08/19	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	2400	ND(0.02)	0.82	0.00049	0.024	**14000**	ND(2000)	72
	08/22/19	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	1500	--	0.082	--	0.0031	**9000**	ND(500)	84
	10/24/19	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	810	0.017	**4**	0.0015	**0.11**	**4900**	ND(500)	91
	03/05/20	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	830	ND(0.02)	**14**	0.00032	**0.32**	**4600**	ND(500)	100
	09/14/20	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/21/20	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	780	1.8	**17**	0.08	**0.32**	**5500**	ND(500)	96
MKTF-46	03/06/20	0.4	ND(1)	0.67	ND(1)	ND(1)	ND(1)	560	ND(0.02)	**1.9**	0.15	**0.34**	**9400**	ND(500)	250
	09/14/20	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/17/20	ND(1)	ND(1)	0.51	ND(1)	ND(1)	ND(1)	610	0.023	**17**	0.19	**3.4**	**7700**	ND(500)	250
MKTF-47	03/06/20	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	380	ND(0.02)	**1.6**	0.00059	**0.075**	**11000**	ND(500)	320
MKTF-49	03/05/20	**20000**	ND(5)	ND(5)	ND(5)	11	ND(5)	1000	5	**18**	5.3	**6.8**	130	ND(500)	ND(2.5)
	09/15/20	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/20/20	**23000**	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	1100	9	**16**	6	**6.1**	130	ND(500)	ND(2.5)
MKTF-50	03/05/20	**12000**	ND(5)	ND(5)	ND(5)	4.5	ND(5)	360	1.6	**5.3**	1.3	**1.5**	ND(500)	ND(500)	ND(2.5)
USEPA RSL Tap Water HQ 0.1		0.46	0.28	2.8	0.17	14	0.019	NA	NA	1.4	NA	0.043	3,200	200	NA

Notes:
MNA - monitored natural attenuation
ug/L - micrograms per liter
mg/L - milligrams per liter
Std Units - Standard Units
USEPA RSL Tap Water 0.1 - United States Environmental Protection Agency Regional Screening Levels for Tap Water, Hazard Quotient 0.1, May 2020
pH results only shown for 3rd Quarter 2020 sampling event

TABLE 1. MNA ANALYTICAL DATA
MARATHON PETROLEUM COMPANY, GALLUP, NEW MEXICO

Location ID	Date Sampled	pH, Field (Std Units)
MKTF-39	09/19/20	--
MKTF-40	02/20/19	--
	05/06/19	--
	08/22/19	--
	10/22/19	--
	11/19/19	--
	02/28/20	--
	09/15/20	7.01
	09/19/20	--
MKTF-41	02/13/19	--
	05/07/19	--
	08/22/19	--
	10/23/19	--
	02/27/20	--
	09/14/20	8.23
	09/21/20	--
MKTF-42	02/13/19	--
	05/07/19	--
	08/22/19	--
	10/23/19	--
	02/27/20	--
	09/14/20	8.27
	09/21/20	--
MKTF-43	02/13/19	--
	05/08/19	--
	08/22/19	--
	10/24/19	--
	02/27/20	--
	09/14/20	6.86
	09/21/20	--
MKTF-44	02/13/19	--
	05/08/19	--
	08/22/19	--
	10/24/19	--
	03/05/20	--
	09/14/20	7.91
	09/21/20	--
MKTF-46	03/06/20	--
	09/14/20	7.15
	09/17/20	--
MKTF-47	03/06/20	--
MKTF-49	03/05/20	--
	09/15/20	6.91
	09/20/20	--
MKTF-50	03/05/20	--
USEPA RSL Tap Water HQ 0.1	NA	

Notes:
MNA - monitored natural attenuation
ug/L - micrograms per liter
mg/L - milligrams per liter
Std Units - Standard Units
USEPA RSL Tap Water 0.1 - United States Environmental Protection Agency Regional Screening Levels for Tap Water, Hazard Quotient 0.1, May 2020
pH results only shown for 3rd Quarter 2020 sampling event

TABLE 2. 2016 ORP FIELD DATA
MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Well	Q1 2016, mV	Q3 2016, mV	Q4 2016, mV
MKTF- 1	-99.7	NM	NM
MKTF- 2	-79.7	-63.2	0.9
MKTF- 4	-109.7	-116.7	-85.1
MKTF- 9	-112.6	-117.2	-77.5
MKTF- 10	-59.6	-104.1	-86.6
MKTF- 11	-116.1	115.9	-82.4
MKTF- 15	NM	-106.5	-79.7
MKTF- 16	-112.3	-122.7	-89.2
MKTF- 17	-73.9	NM	-9.5
MKTF- 18	-123.6	-143.3	-20.1
MKTF- 19	-104.3	NM	-93.8
MKTF- 20	-96.9	-138.0	-92.0
MKTF- 21	-89.4	-95.2	-81.9
MKTF- 22	-100.7	-96.7	-46.7
MKTF- 23	-93.9	NM	NM
MKTF- 24	-14.1	48.2	75.5
MKTF- 25	5.0	3.3	60.6
MKTF- 26	-12.1	NM	NM
MKTF- 27	61.4	82.6	128.1
MKTF- 28	55.3	88.6	110.2
MKTF- 29	6.5	-1.8	44.2
MKTF- 30	54.7	21.5	40.4
MKTF- 31	41.0	66.5	114.7
MKTF- 32	36.2	88.0	158.4
MKTF- 33	19.5	70.2	27.7
MKTF- 34	42.0	18.3	51.3
MKTF- 35	-106.1	-132.1	-102.3
MKTF- 37	NM	-159.2	NM
MKTF- 38	-54.0	-30.2	50.0
MKTF- 39	-109.5	-121.1	-78.6
MKTF- 40	58.5	103.0	224.1
MKTF- 41	44.9	79.4	174.8
MKTF- 42	-1.8	60.2	129.6
MKTF- 43	82.6	164.9	179.7
MKTF- 44	11.2	80.7	199.1

Notes:

NM - Not measured

Second quarter data not available in 2016 Annual Report

TABLE 3. EXISTING GROUNDWATER QUARTERLY SAMPLING ANALYSES AND MNA APPLICABILITY
MARATHON GALLUP REFINERY, GALLUP, NEW MEXICO

Analyte	Method of Analysis	Significance for MNA	Utility for MNA Analyses
BTEX	Laboratory	Decreasing trends indicate natural attenuation	Monitor trends
1,1-DCA, 1,2-DCA	Laboratory	Decreasing trends indicate natural attenuation	Monitor trends
TCE	Laboratory	Decreasing trends indicate natural attenuation	Monitor trends
Chloride	Laboratory	End product of 1,1-DCA and 1,2-DCA degradation	Monitor trends, but dissolved salts may mask trends
Nitrate	Laboratory	Potential electron receptor for biodegradation	Presence indicates potential for biodegradation
Nitrite	Laboratory	Form of nitrate reduced by biodegradation	Presence indicates possible biodegradation
Sulfate	Laboratory	Potential electron receptor for biodegradation	Monitor trends
Iron	Laboratory	Potential electron receptor for biodegradation	Monitor trends
Manganese	Laboratory	Potential electron receptor for biodegradation	Monitor trends
Vinyl chloride	Laboratory	Biodegradation product of TCE	Monitor trends
pH	Field	Neutral range 6-8 required for biodegradation	Monitor level and trends
DO	Field	Presence required for aerobic biodegradation	Monitor level and trends
ORP	Field	Indicates redox state for biodegradation	Monitor level and trends

Notes:
MNA - Monitored Natural Attenuation
BTEX - benzene, toluene, ethylbenzene, xylenes
DO - dissolved oxygen
ORP - oxidation reduction potential
1,1-DCA - 1,1-dichloroethane
1,2-DCA - 1,2-dichloroethane
TCE - trichloroethylene

Figures

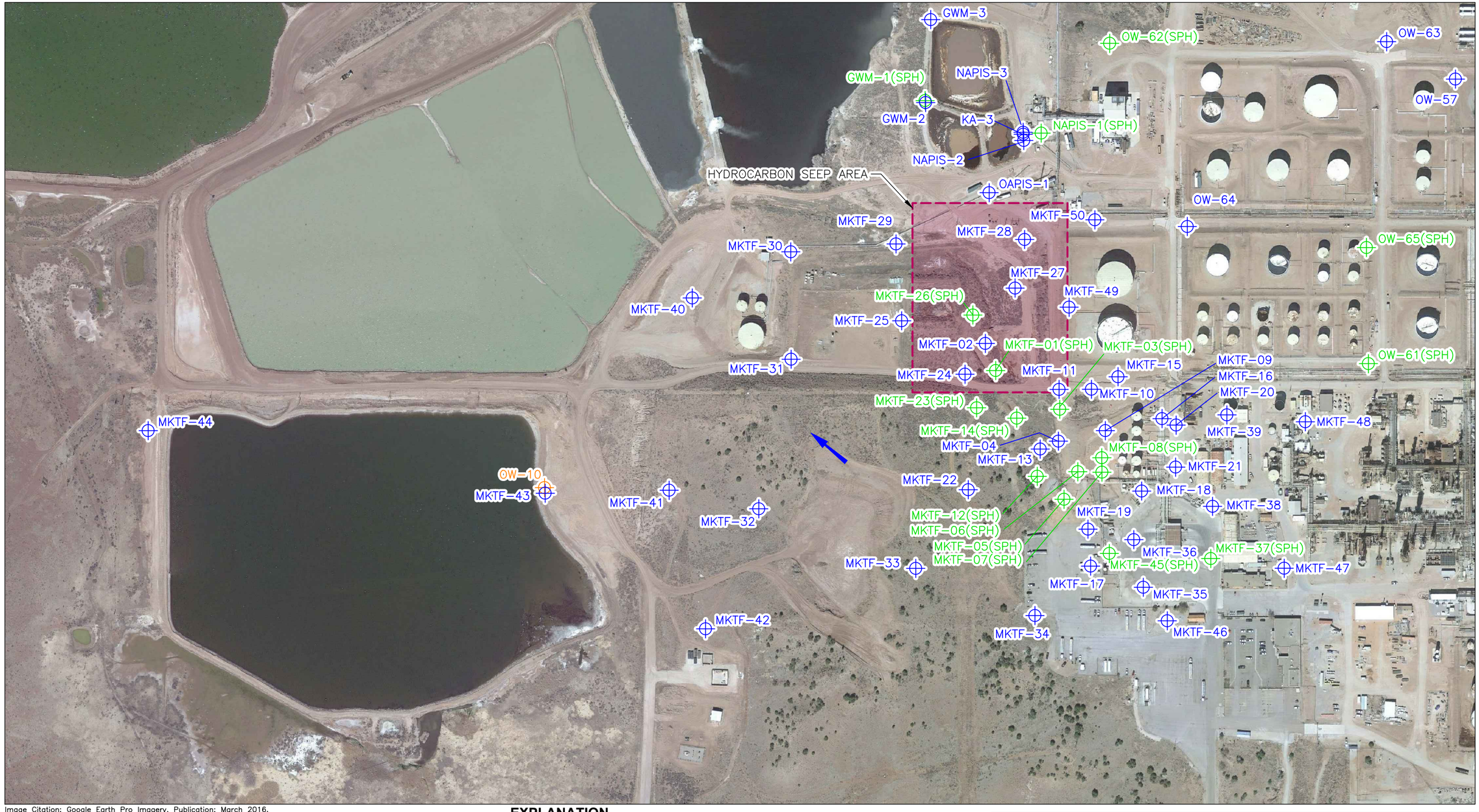

Image Citation: Google Earth Pro Imagery, Publication: March 2016.

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NEW MEXICO

QUADRANGLE LOCATION

NOTE:
SITE LEGAL DESCRIPTION -
TOWNSHIP 15 NORTH,
RANGE 15 WEST, SECTION 33

EXPLANATION

OW-10	SONSELA WELL AND DESIGNATION
MKTF-42	CHINLE/ALLUVIUM INTERFACE WELL AND DESIGNATION
MKTF-45	SPH MONITORING WELL AND DESIGNATION
	GENERAL GROUNDWATER FLOW DIRECTION
	HYDROCARBON SEEP AREA
SPH	SINGLE-PHASE HYDROCARBON

N

0 300'

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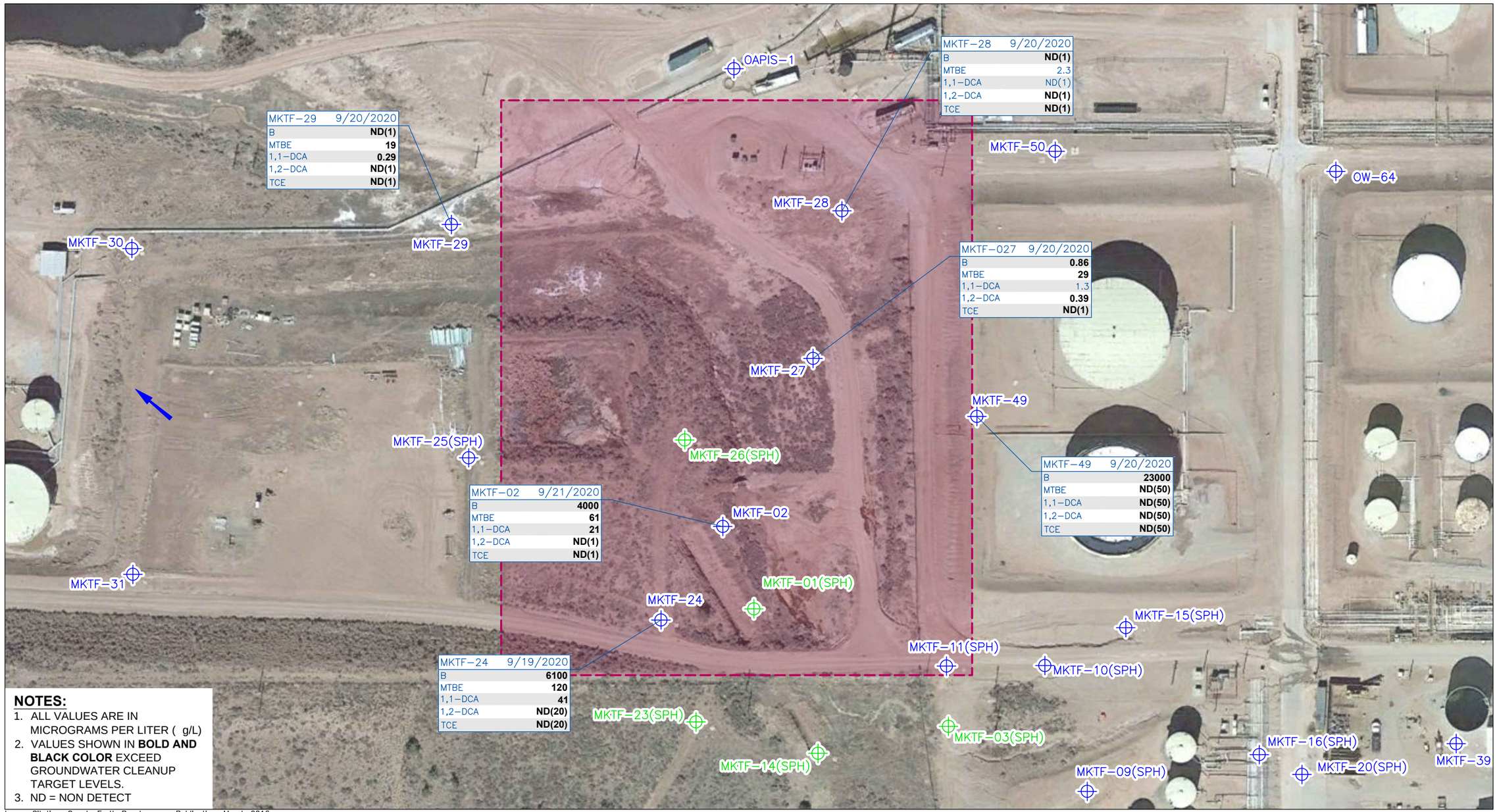
FIGURE 1

MKTF AREA
SITE MAP

MARATHON PETROLEUM CORP.
GALLUP REFINING DIVISION
GALLUP, NEW MEXICO

Drawn By: REP	Checked By: CF	Scale: 1" = 300'	Date: 11/23/20	File: 697-MNA-SITE-202011



NOTES:

1. ALL VALUES ARE IN MICROGRAMS PER LITER (g/L)
2. VALUES SHOWN IN **BOLD AND BLACK COLOR** EXCEED GROUNDWATER CLEANUP TARGET LEVELS.
3. ND = NON DETECT

Image Citation: Google Earth Pro Imagery, Publication: March 2016.

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ANALYTE TABLE EXPLANATION

WELL DESIGNATION →	MKTF-02	9/21/2020 ← SAMPLE DATE
Benzene →	B	0.46
Methyl tert-Butyl Ether →	MTBE	14
1,1-Dichloro-ethane →	1,1-DCA	2.8
1,2-Dichloro-ethane →	1,2-DCA	0.17
Trichloro-Ethene →	TCE	0.28

VALUES SHOWN ARE GROUNDWATER CLEANUP TARGET LEVELS

EXPLANATION

- MKTF-42 — CHINLE/ALLUVIUM INTERFACE WELL AND DESIGNATION
- MKTF-45 — SPH MONITORING WELL AND DESIGNATION
- GENERAL GROUNDWATER FLOW DIRECTION
- HYDROCARBON SEEP AREA
- SPH — SINGLE-PHASE HYDROCARBON

N

0 100'

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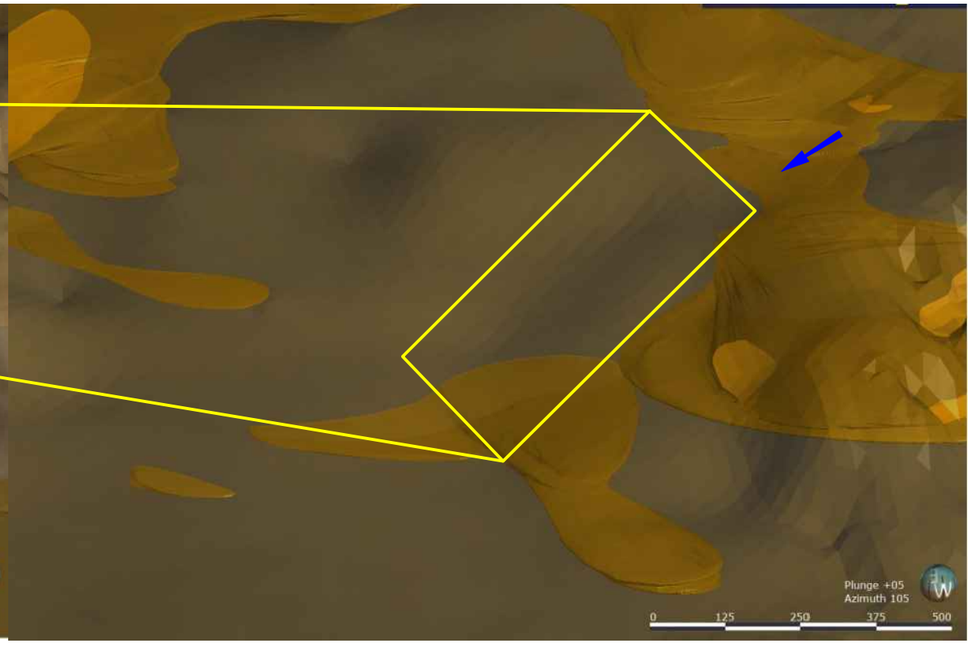
FIGURE 2

THIRD QUARTER 2020 MNA ANALYTICAL DATA

**MARATHON PETROLEUM CORP.
GALLUP REFINING DIVISION
GALLUP, NEW MEXICO**

Drawn By: REP	Checked By: CF	Scale: 1" = 100'	Date: 11/24/20	File: 697-MNA-GWDATA-202009

LOCAL SURFACE TOPOGRAPHY SHOWING SWALE IN THE HYDROCARBON SEEP AREA
EAST VIEW, X5 VERTICAL EXAGGERATION



GEOLOGICAL MODEL SHOWING SWALE IN SHALLOW ALLUVIAL DEPOSITS (FINE - DARK, COARSE - LIGHT)
IN THE HYDROCARBON SEEP AREA EAST VIEW, X5 VERTICAL EXAGGERATION

EXPLANATION

GENERAL GROUNDWATER FLOW DIRECTION

N

0 ~250'

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FIGURE 3

3D MODELING OF LOCAL GEOLOGY IN THE HYDROCARBON SEEP AREA

**MARATHON PETROLEUM CORP.
GALLUP REFINING DIVISION
GALLUP, NEW MEXICO**

Drawn By: REP	Checked By: CF	Scale: 1" = ~250'	Date: 11/23/20	File: 697-MNA-3DMODEL-202011

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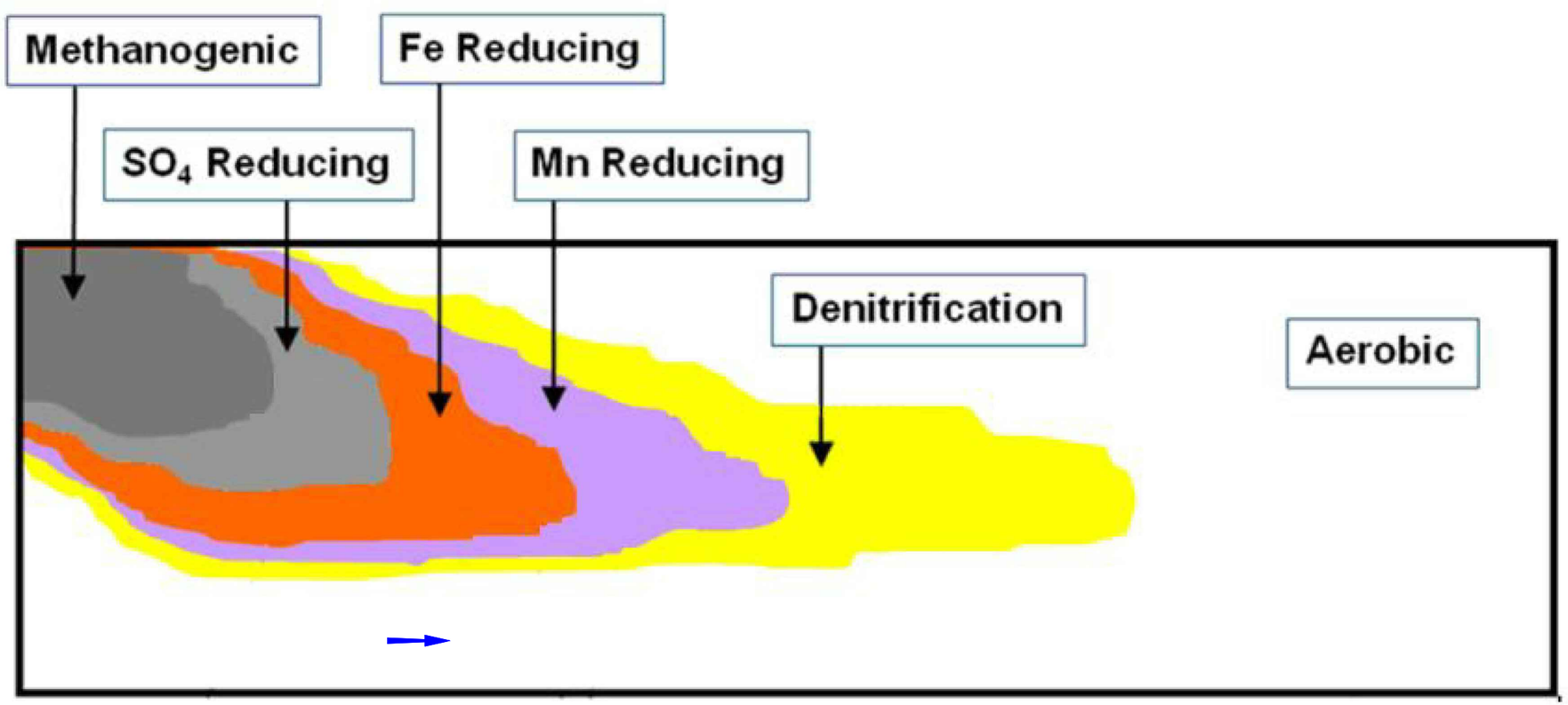

EXPLANATION

←	GENERAL GROUNDWATER FLOW DIRECTION
FE	IRON
MN	MANGANESE
SO4	SULFATE

Source: After ITRC 2010

FIGURE 4

REDUCING REGIMES IN A TYPICAL HYDROCARBON GROUNDWATER PLUME

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GALLUP REFINING DIVISION
GALLUP, NEW MEXICO

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Drawn By: REP	Checked By: CF	Scale: NONE	Date: 11/23/20	File: 697-MNA-REDREGIME-202011

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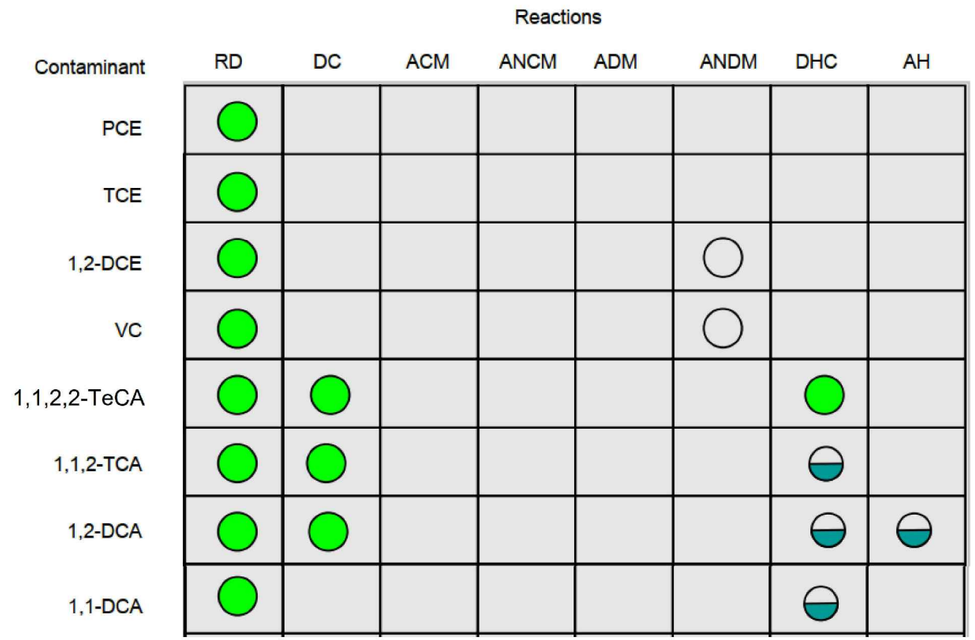

Key:

- Highly Likely to occur
- Highly likely to occur, but a slow rate
- May occur under specific conditions
- Highly Unlikely to occur

DCA - DICHLOROETHANE
DCE - DICHLOROETHENE
PCE - PERCHLOROETHENE
TCE - TRICHLOROETHENE
TeCA - TETRACHLOROETHANE
VC - VINYL CHLORIDE

REACTIONS

ACM	Aerobic Co-Metabolism
ANCM	Anaerobic Co-Metabolism
ADM	Aerobic Direct Metabolism
ANDM	Anaerobic Direct Metabolism
DHC	Dehydrochlorination (abiotic)
AH	Abiotic Hydrolysis
DC	Dichloroelimination (biotic)
RD	Reductive Dechlorination (hydrogenolysis)

Source: Adapted from TRUEX, ET AL 2007

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FIGURE 5

DEGRADATION REACTIONS IN ANAEROBIC CONDITIONS

**MARATHON PETROLEUM CORP.
GALLUP REFINING DIVISION
GALLUP, NEW MEXICO**

Drawn By: REP	Checked By: CF	Scale: NONE	Date: 11/23/20	File: 697-MNA-DEGRADATION-202011

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

COMMENTS

Action 19482

COMMENTS

Operator:	OGRID:	Action Number:	Action Type:
WESTERN REFINING SOUTHWEST, IN 6700 Jefferson NE, Suite A-1 Albuquerque, NM87109	705791	19482	DISCHARGE PERMIT

Created By	Comment	Comment Date
cchavez	Permittee Hydrocarbon Seep 12-15-2020.	03/02/2021

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District II
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Phone:(575) 748-1283 Fax:(575) 748-9720
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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 19482

CONDITIONS OF APPROVAL

Operator:			OGRID:	Action Number:	Action Type:
WESTERN REFINING SOUTHWEST, IN	6700 Jefferson NE, Suite A-1	Albuquerque, NM87109	705791	19482	DISCHARGE PERMIT

OCD Reviewer	Condition
cchavez	None