### RICE Operating Company

112 West Taylor • Hobbs, New Mexico 88240 Phone: (575) 393-9174 • Fax: (575) 397-1471

#### **September 18, 2025**

#### **Shanna Smith**

Environmental Bureau, Oil Conservation Division New Mexico Energy, Minerals, & Natural Resources Department 1220 S. St. Francis Drive Santa Fe, New Mexico 87505

> RE: Updated 2024 Annual Groundwater Report Rice Operating Company – BD SWD System BD Jct. N-20 (1R426-215): UL/N, Sec. 20, T21S, R37E NMOCD Incident ID: nAPP2109651236

Ms. Smith:

ROC is the service provider (agent) for the BD SWD System and has no ownership of any portion of the pipeline, well, or facility. The system is owned by a consortium of oil producers, System Parties, who provide all operating capital on a percentage ownership/usage basis.

#### **Background and Previous Work**

The site is located approximately 2 miles northwest of Eunice, New Mexico at UL/N, Sec. 20, T21S, R37E as shown on the Geographical Location Map. Groundwater sampling at the site indicated the depth to groundwater is approximately 99 feet below ground surface (bgs).

An Investigation and Characterization Plan (ICP) was submitted to NMOCD on August 5<sup>th</sup>, 2013, and approved on August 21<sup>st</sup>, 2013. According to the ICP, the site was investigated through soil bore installation resulting in elevated chloride concentrations that decreased with depth. Based on the soil bore installation, a Corrective Action Plan (CAP) was submitted and approved by NMOCD on October 30<sup>th</sup>, 2013. According to the NMOCD approved CAP, a 71x103-ft, 20-mil reinforced liner was installed and properly seated at 4.5 ft bgs. The site was backfilled and seeded with a blend of native vegetation. A CAP Report and Soil Closure Request detailing this work was submitted to the NMOCD on August 1<sup>st</sup>, 2014. The report also requested a near-source monitor well (MW-1) and an up-gradient well (MW-2) to determine groundwater quality. NMOCD approved this report and granted 'Soil Closure' on September 18<sup>th</sup>, 2014.

On May 14<sup>th</sup>, 2015, MW-1 was installed with lithology soil samples being collected at regular intervals. The up-gradient well (MW-2) was installed November 15<sup>th</sup>, 2019, and the downgradient well (MW-3) was installed on December 20<sup>th</sup>, 2019. The wells have been sampled regularly since installation. The most recent sampling event resulted in a chloride concentration of 2,420 mg/L in MW-1, 750 mg/L in MW-2, and 550 mg/L in MW-3. BTEX concentrations have remained below detectable limit in each well since installation. The samples collected from

the up-gradient well (MW-2) suggest a non-ROC, up-gradient source has contributed to the degradation of groundwater quality. On October 5<sup>th</sup>, 2022, NMOCD granted approval to eliminate BTEX and sulfate analyses from MW-2 and MW-3.

NMOCD sent a response to the 2023 Annual Report on August 19<sup>th</sup>, 2024. In that response, NMOCD suggested ROC consider installing an up-gradient monitoring well. An up-gradient well (MW-2) was installed approximately 100 ft northwest of the source on November 15<sup>th</sup>, 2019. The monitoring well has been sampled quarterly since installation and has resulted in elevated chloride concentrations with an average of 1,337 mg/L. The peak chloride concentration observed in the up-gradient well resulted in a concentration of 2,070 mg/L collected on August 27<sup>th</sup>, 2021. ROC reviewed historical aerial photos and quarterly monitoring well sampling data. Based on the elevated concentrations in the up-gradient well and the historical aerial photos, ROC submitted a Termination Request to NMOCD on March 30<sup>th</sup>, 2023.

NMOCD rejected the Termination Request on March 27<sup>th</sup>, 2025, with the request ROC resubmit the report for review via the [UF] GWA (groundwater abatement) in the online portal. ROC updated the report and resubmitted the report on April 8<sup>th</sup>, 2025. NMOCD again rejected the Termination Request on August 27<sup>th</sup>, 2025, for the following reasons:

- "The ICP approved in 2013 was for soil only. OCD records indicate that an approved Stage 1 plan is not on file. Pursuant to 19.15.30 NMAC Rice must submit a Stage 1 Abatement plan no later than November 28, 2025 that meets all of the requirements of 19.15.30.13 NMAC to include: a. A proposed timeline to fully delineate both soil & ground water impacts.
- OCD previous October 5, 2022, approval to eliminate contaminates of concern is rescinded. All groundwater samples will be analyzed for all constituents listed in 20.6.2.3103 NMAC. Operators may request to reduce sampling based upon future results."

A 2024 Annual Report was submitted to NMOCD on April 1<sup>st</sup>, 2025, and NMOCD rejected the report on August 26<sup>th</sup>, 2025, for the following reasons:

- "Resubmit the 2024 AGWMR no later than September 19, 2025 and include the following documents Updated Potentiometric map of the location Monitor Well Construction diagrams Update tables to include Top of Casing
- The ICP approved in 2013 was for soil only. OCD records indicate that an approved Stage 1 plan is not on file. Pursuant to 19.15.30 NMAC Rice must submit a Stage 1 Abatement plan no later than November 28, 2025 that meets all of the requirements of 19.15.30.13 NMAC to include: a. A proposed timeline to fully delineate both soil & ground water impacts.
- OCD previous October 5, 2022 approval to eliminate contaminates of concern is rescinded. All groundwater samples will be analyzed for all constituents listed in

20.6.2.3103 NMAC. Operators may request to reduce sampling based upon future results."

Included in the appendix of this Updated 2024 Annual Report are updated potentiometric maps and the monitoring well logs for MW-1, MW-2 and MW-3. The table of monitoring well data now includes the top of the casing elevation for each well. ROC will continue quarterly sampling of MW-1, MW-2 and MW-3 for chloride, TDS, sulfate, and BTEX in 2025.

Attached is the Appendix, which contains:

- 1. NMOCD rejection of the 2024 Annual Report.
- 2. NMOCD response to the 2023 Annual Report.
- 3. A Geographical Location Map.
- 4. An Area Map.
- 5. Potentiometric Maps showing monitoring well locations and estimated groundwater gradient (generated by Tasman Geosciences).
- 6. A graph showing laboratory results, and a table presenting all laboratory results, depth to groundwater, and top of casing measurement for each well at the site.
- 7. The laboratory analytical results for 2024.
- 8. Monitoring well logs for MW-1, MW-2, and MW-3.

Rice Operating Company appreciates the opportunity to work with you on this project. Please contact me at (575) 393-9174 if you have any questions or wish to further discuss this site. Thank you for your time and consideration.

Sincerely,

Katie Davis

**Environmental Manager** 

Katy Davis

RICE Operating Company (ROC)

appendix

From: OCDOnline@state.nm.us

To: <u>Katie Davis</u>

**Subject:** The Oil Conservation Division (OCD) has rejected the application, Application ID: 447056

**Date:** Tuesday, August 26, 2025 3:37:39 PM

To whom it may concern (c/o Katie Davis for RICE OPERATING COMPANY),

The OCD has rejected the submitted *Ground Water Abatement* (GROUND WATER ABATEMENT), for incident ID (n#) nAPP2109651236, for the following reasons:

- Resubmit the 2024 AGWMR no later than September 19, 2025 and include the following documents Updated Potentiometric map of the location Monitor Well Construction diagrams Update tables to include Top of Casing
- The ICP approved in 2013 was for soil only. OCD records indicate that an approved Stage 1 plan is not on file. Pursuant to 19.15.30 NMAC Rice must submit a Stage 1 Abatement plan no later than November 28, 2025 that meets all of the requirements of 19.15.30.13 NMAC to include: a. A proposed timeline to fully delineate both soil & ground water impacts.
- OCD previous October 5, 2022 approval to eliminate contaminates of concern is rescinded. All groundwater samples will be analyzed for all constituents listed in 20.6.2.3103 NMAC. Operators may request to reduce sampling based upon future results.

The rejected GROUND WATER ABATEMENT can be found in the OCD Online: Permitting - Action Status, under the Application ID: 447056.

Please review and make the required correction(s) prior to resubmitting.

If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional GROUND WATER ABATEMENT.

Thank you, Shanna Smith Environmental Specialist 575-263-4507 Shanna.Smith@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department 1220 South St. Francis Drive Santa Fe, NM 87505 From: OCDOnline@state.nm.us

To: <u>Katie Jones</u>

**Subject:** The Oil Conservation Division (OCD) has approved the application, Application ID: 327832

**Date:** Monday, August 19, 2024 3:47:17 PM

To whom it may concern (c/o Katie Davis for RICE OPERATING COMPANY),

The OCD has approved the submitted *Ground Water Abatement* (GROUND WATER ABATEMENT), for incident ID (n#) nAPP2109651236, with the following conditions:

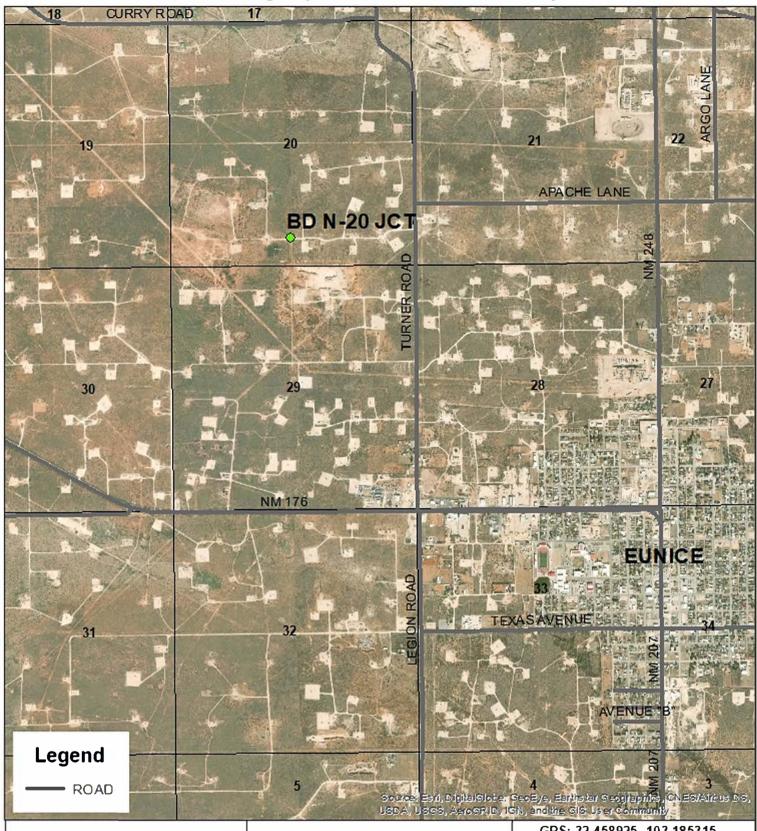
• Review of the 2023 Annual Groundwater Report for ROC--BD SWD System BD Jct. N-20: content satisfactory 1. Continue to conduct quarterly groundwater monitoring for the site. 2. A meeting may need to be scheduled with OCD in order to discuss possible sources that ROC is claiming could be contributing to the site, or a background well may be installed up gradient to demonstrate natural salinity and TDS in the area. 3. Please submit the 2024 annual report to OCD by April 1, 2025.

The signed GROUND WATER ABATEMENT can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

Thank you,
Michael Buchanan
Environmental Specialist
505-490-0798
Michael.Buchanan@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department 1220 South St. Francis Drive Santa Fe, NM 87505

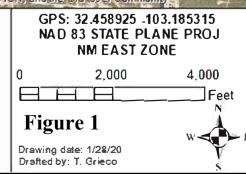




### BD N-20 JCT

1R426-215

UL N SECTION 20 T-21-S R-37-E LEA COUNTY, NM



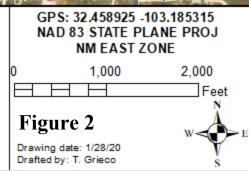




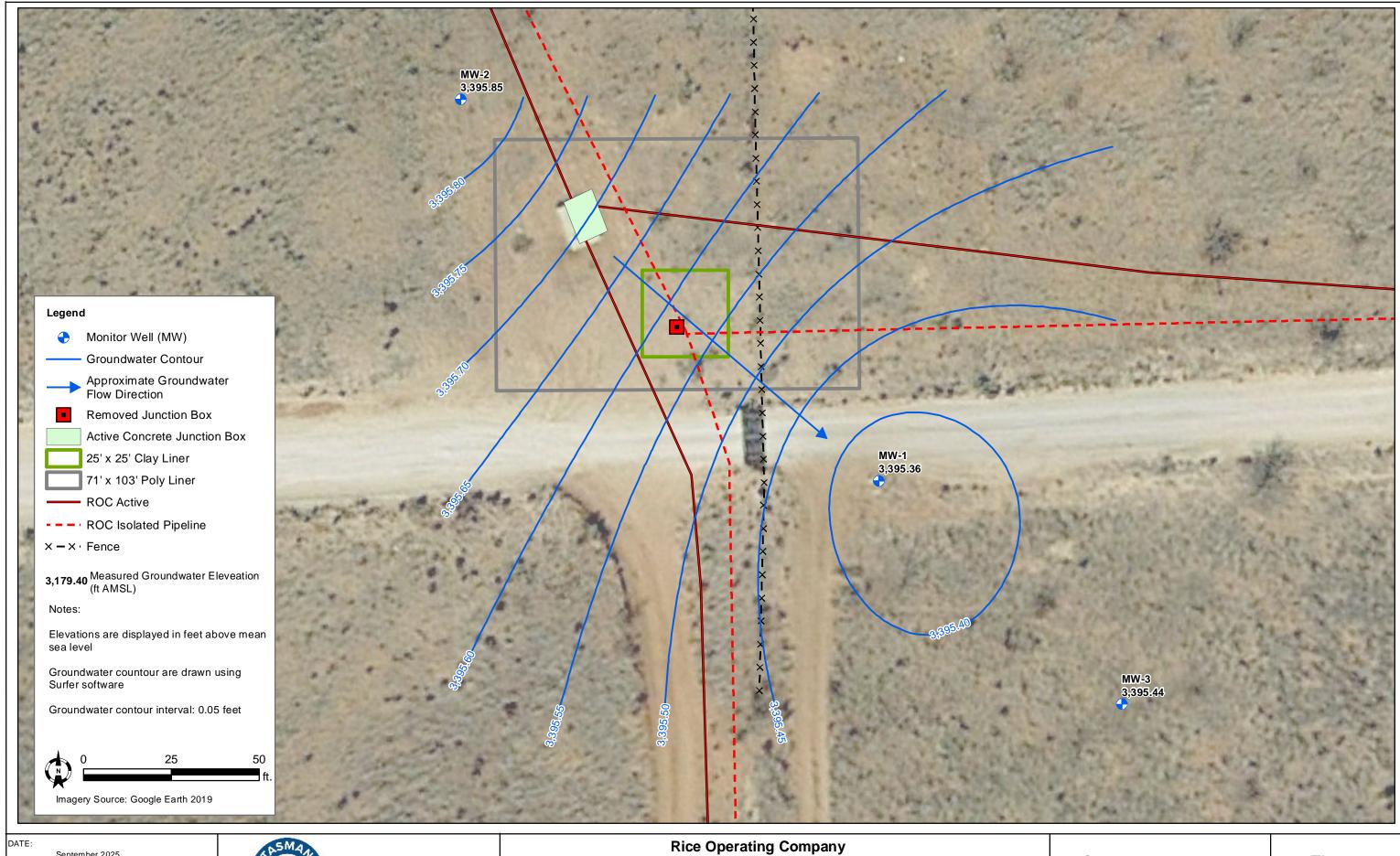
### BD N-20 JCT

1R426-215

UL N SECTION 20 T-21-S R-37-E LEA COUNTY, NM



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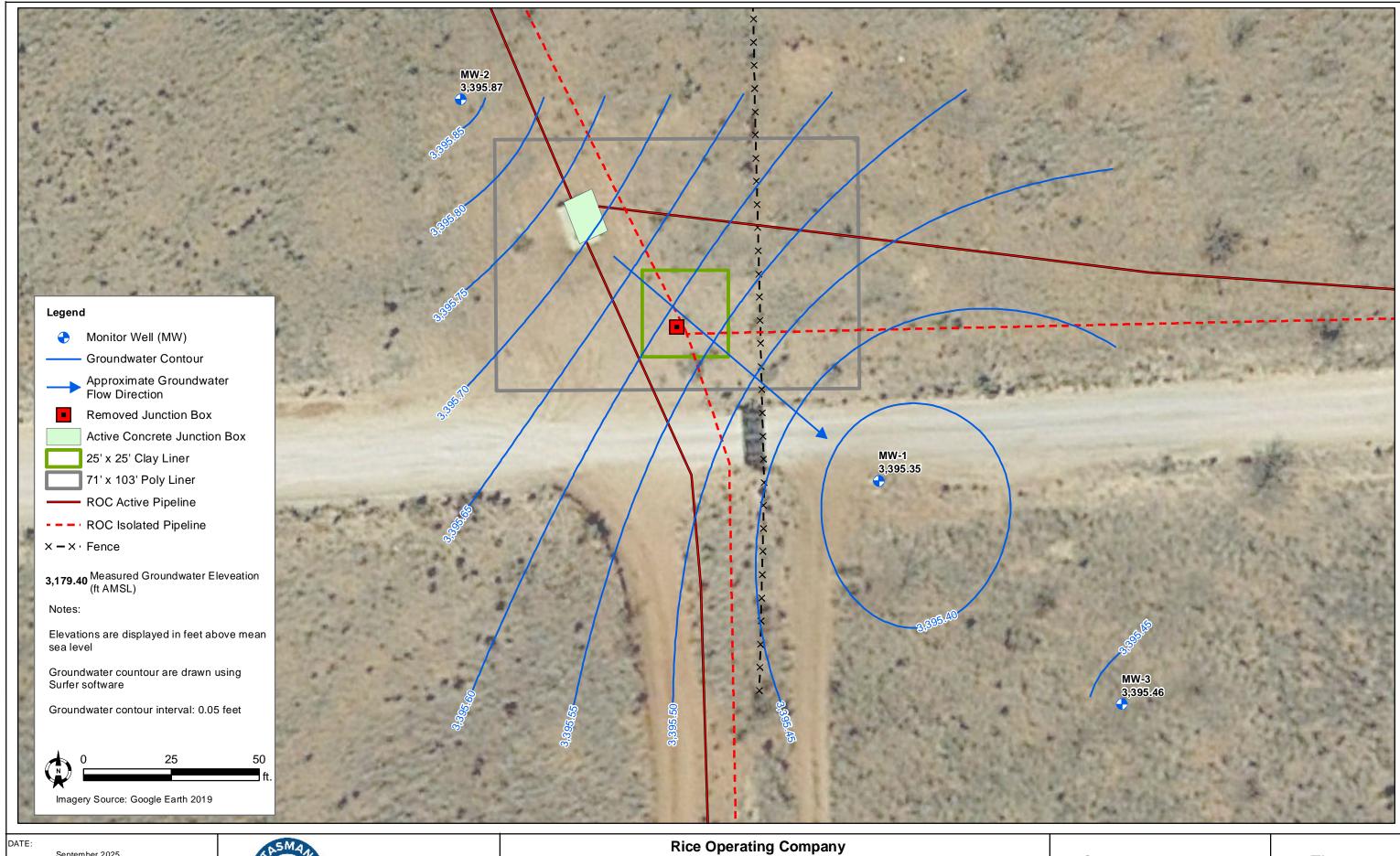


# Rice Operating Company BD N-20 Jct.

UL "N", Section 20, Township 21 South, Range 37 East Lea County, New Mexico

Groundwater Eleveation Contour Map (February 6, 2024)

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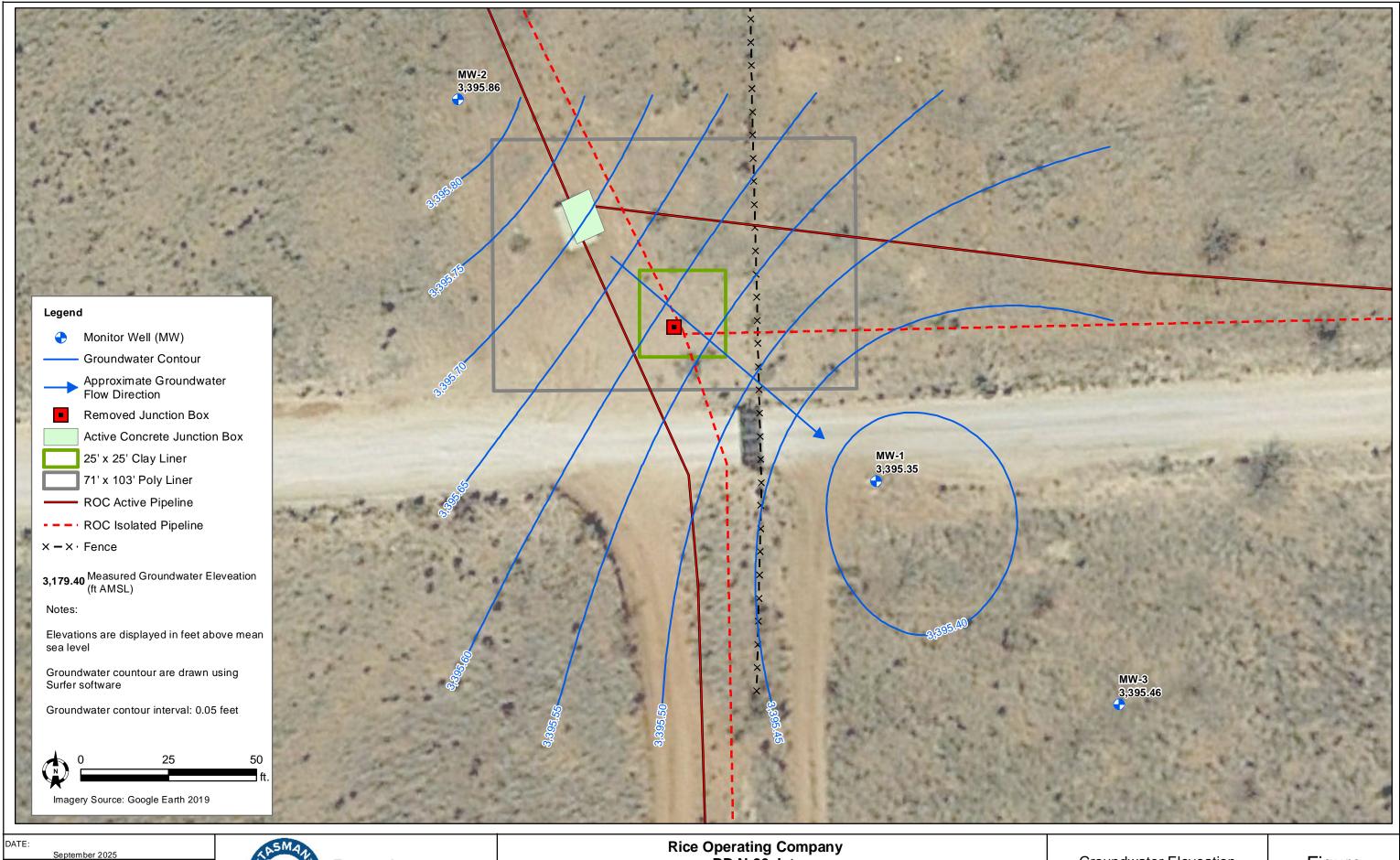


# Rice Operating Company BD N-20 Jct.

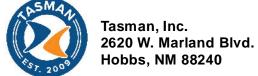
UL "N", Section 20, Township 21 South, Range 37 East Lea County, New Mexico

**Groundwater Eleveation** Contour Map (May 21, 2024)

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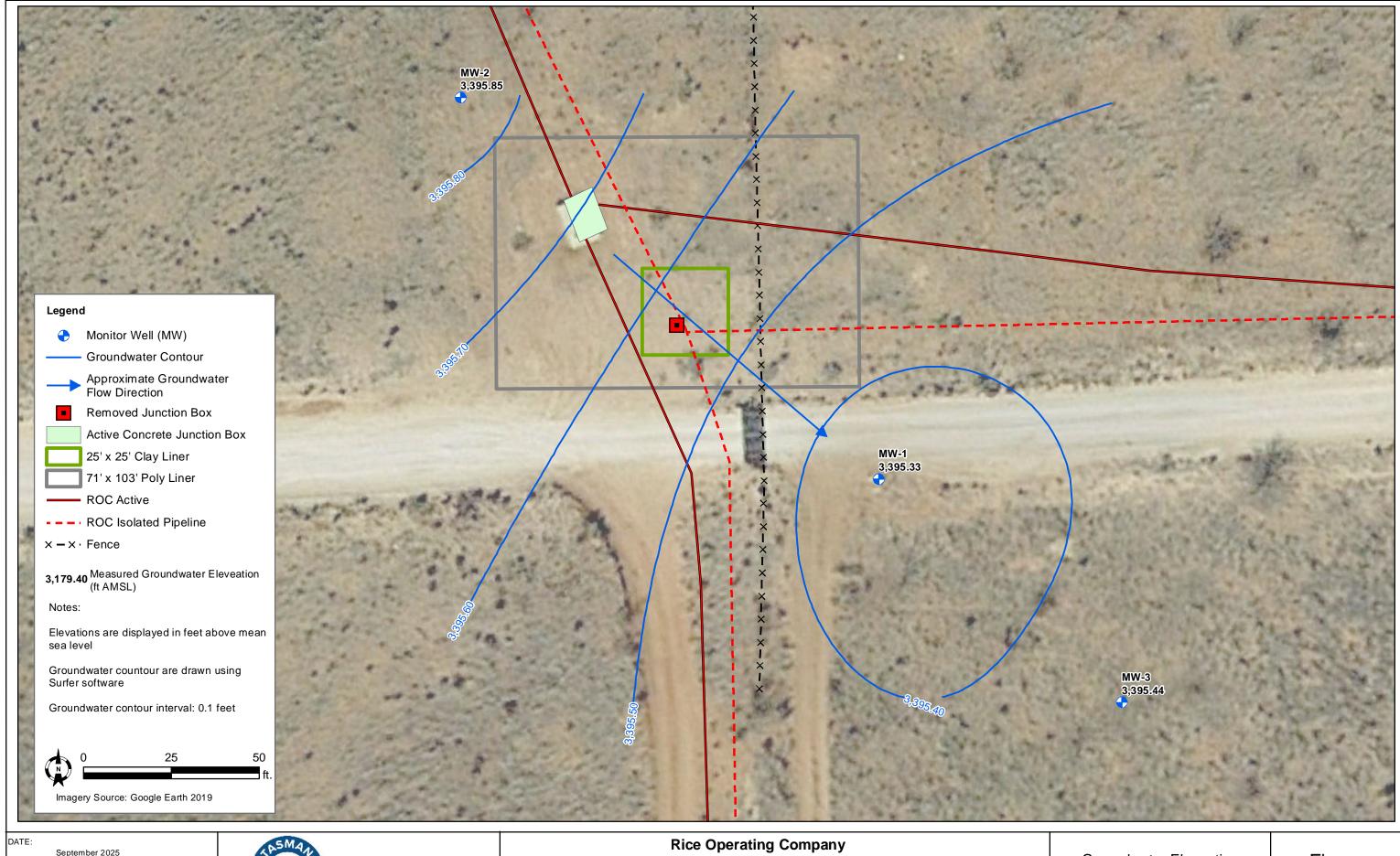


# Rice Operating Company BD N-20 Jct.

UL "N", Section 20, Township 21 South, Range 37 East Lea County, New Mexico

**Groundwater Eleveation** Contour Map (July 30, 2024)

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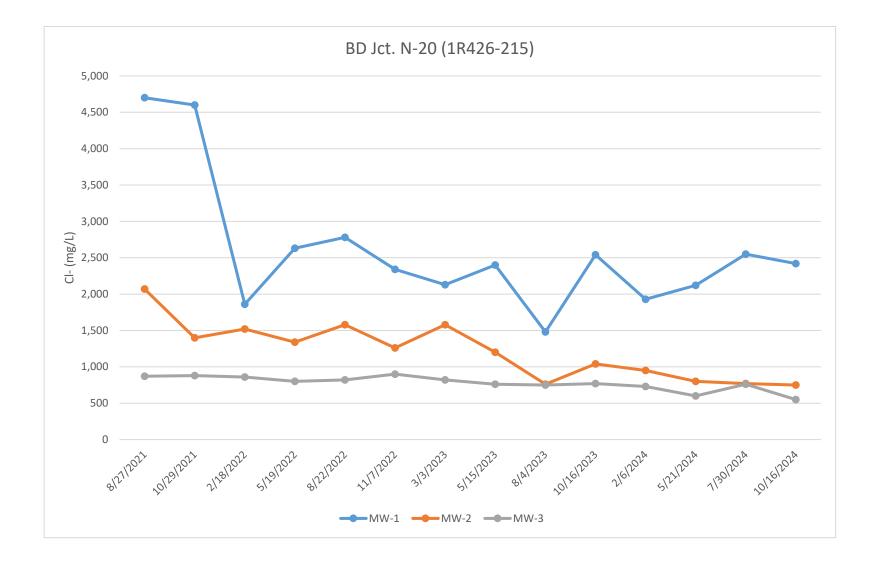
DESIGNED BY: DRAWN BY:



# Rice Operating Company BD N-20 Jct.

UL "N", Section 20, Township 21 South, Range 37 East Lea County, New Mexico

Groundwater Eleveation Contour Map (October 16, 2024)



ROC - BD Jct. N-20 (1R426-215) Unit Letter N, Section 20, T21S, R37E

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate	Comments
1	100.09	146.9	30.4	100	6/22/2015	640	2,600	<0.001	<0.001	<0.001	<0.003	240	Clear No odor
1	100.23	146.9	30.34	100	8/7/2015	1,100	2,950	<0.001	<0.001	<0.001	<0.003	112	Clear No odor
1	100.22	146.9	30.34	100	10/29/2015	1,260	3,740	<0.001	<0.001	<0.001	<0.003	94	Clear No odor
1	100.14	146.9	30.4	100	2/5/2016	1,530	2,710	<0.001	<0.001	<0.001	<0.003	85	Clear No odor
1	100.14	146.9	30.4	100	4/28/2016	1,530	3,050	<0.001	<0.001	<0.001	<0.003	240	Clear No odor
1	100.21	146.9	30	100	7/28/2016	2,660	5,220	<0.001	<0.001	<0.001	<0.003	16	Clear No odor
1	100.07	146.9	30	100	10/25/2016	2,470	6,460	<0.001	<0.001	<0.001	<0.003	18	Clear No odor
1	100.04	146.9	30.5	100	2/13/2017	1,600	2,970	<0.001	<0.001	<0.001	<0.003	38	Clear No odor
1	99.95	146.9	30.5	100	4/25/2017	1,770	3,160	<0.001	<0.001	<0.001	<0.003	67	Clear No odor
1	99.94	146.9	30.5	100	9/1/2017	1,370	3,170	<0.001	<0.001	<0.001	<0.003	198	Clear No odor
1	99.93	146.9	30.5	100	11/1/2017	1,300	2,780	<0.001	<0.001	<0.001	<0.003	272	Clear No odor
1	99.94	146.9	30.5	100	2/8/2018	1,940	3,310	<0.001	<0.001	<0.001	<0.003	119	Clear No odor
1	100.02	146.9	30.5	100	5/3/2018	2,800	4,850	<0.001	<0.001	<0.001	<0.003	110	Clear No odor
1	100.03	146.9	30.5	100	8/24/2018	2,000	5,040	<0.001	<0.001	<0.001	<0.003	107	Clear No odor
1	100.01	146.9	30.5	100	11/7/2018		3,510	<0.001	<0.001	<0.001	<0.003	110	Clear No odor
1	100.02	146.9	30.5	100	2/22/2019	1,670	2,740	<0.001	<0.001	<0.001	<0.003	140	Clear No odor
1	100.03	146.9	30.5	100	5/2/2019	2,070	3,370	<0.001	<0.001	<0.001	<0.003	107	Clear No odor
1	100.01	146.9	30.5	100	8/6/2019	1,840	4,240	<0.001	<0.001	<0.001	<0.003	111	Clear No odor
1	100.09	146.9	30	100	11/5/2019	2,830	5,240	<0.001	<0.001	<0.001	<0.003	127	Clear No odor
1	100.1	146.9	30.4	100	2/24/2020	1,820	3,050	<0.001	<0.001	<0.001	<0.003	113	Clear No odor
1	110.16	146.9	23.9	100	8/27/2020	4,450	6,960	<0.001	<0.001	<0.001	<0.003	77.6	Clear No odor
1	100.18	146.9	30	100	3/1/2021	3,550	6,180	<0.001	<0.001	<0.001	<0.003	148	Clear No odor
1	100.19	146.9	30	100	5/27/2021	3,450	6,640	<0.001	<0.001	<0.001	<0.003	168	Clear No odor
1	100.18	146.9	30	100	8/27/2021	4,700	8,690	<0.001	<0.001	<0.001	<0.003	125	Clear No odor
1	100.14	146.9	30	100	10/29/2021	4,600	7,970	<0.001	<0.001	<0.001	<0.003	122	Clear No odor
1	100.11	146.9	30	100	2/18/2022	1,860	3,200	<0.001	<0.001	<0.001	<0.003	168	Clear No odor
1	100.12	146.9	30	100	5/19/2022	2,630	4,850	<0.001	<0.001	<0.001	<0.003	273	Clear No odor
1	100.13	146.9	30	100	8/22/2022	2,780	5,800	<0.001	<0.001	<0.001	<0.003	201	Clear No odor

ROC - BD Jct. N-20 (1R426-215) Unit Letter N, Section 20, T21S, R37E

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate	Comments
1	100.15	146.9	30	100	11/7/2022	2,340	4,410	<0.001	<0.001	<0.001	<0.003	200	Clear No odor
1	100.14	146.92	30.4	100	3/3/2023	2,130	3,590	<0.001	<0.001	<0.001	<0.003	223	Clear No odor
1	100.1	146.9	30.4	100	5/15/2023	2,400	4,500	<0.001	<0.001	<0.001	<0.003	239	Clear No odor
1	100.18	146.9	30.4	100	8/4/2023	1,480	3,070	<0.001	<0.001	<0.001	<0.003	175	Clear No odor
1	100.23	146.9	30.3	100	10/16/2023	2,540	4,870	<0.001	<0.001	<0.001	<0.003	269	Clear No odor
1	100.19	146.9	30.4	100	2/6/2024	1,930	2,660	<0.001	<0.001	<0.001	<0.003	230	Clear No odor
1	100.2	146.9	30.4	100	5/21/2024	2,120	4,420	<0.001	<0.001	<0.001	<0.003	168	Clear No odor
1	100.2	146.9	30.4	100	7/30/2024	2,550	5,120	<0.001	<0.001	<0.001	<0.003	294	Clear No odor
1	100.22	146.9	30.3	100	10/16/2024	2,420	4,380	<0.001	<0.001	<0.001	<0.003	223	Clear No odor

MW-1 Top of Casing: 3495.55 ft

MW	Depth to	Total	Well	Volume	Sample Date	Cl	TDS	Benzene	Toluene	Ethyl	Total	Sulfate	Comments
IVIVV	Water	Depth	Volume	Purged	Sample Date	Ci	103	Delizelle	Toluelle	Benzene	Xylenes	Juliate	Comments
2	99.96	116.4	2.6	10	12/23/2019	1,880	3,420	<0.001	<0.001	<0.001	<0.003	218	Clear No odor
2	99.92	116.4	2.6	10	2/24/2020	1,620	3,230	<0.001	<0.001	<0.001	<0.003	190	Clear No odor
2	99.98	116.4	2.6	10	8/27/2020	1,580	3,180	<0.001	<0.001	<0.001	<0.003	183	Clear No odor
2	99.97	116.4	2.6	10	3/1/2021	1,580	3,140	<0.001	<0.001	<0.001	<0.003	225	Clear No odor
2	100.01	116.4	2.6	10	5/27/2021	1,730	3,120	<0.001	<0.001	<0.001	<0.003	172	Clear No odor
2	100	116.4	2.6	10	8/27/2021	2,070	3,660	<0.001	<0.001	<0.001	<0.003	283	Clear No odor
2	99.96	116.4	2.6	10	10/29/2021	1,400	2,540	<0.001	<0.001	<0.001	<0.003	192	Clear No odor
2	99.94	116.4	2.6	10	2/18/2022	1,520	2,900	<0.001	<0.001	<0.001	<0.003	226	Clear No odor
2	99.95	116.4	2.6	10	5/19/2022	1,340	2,410	<0.001	<0.001	<0.001	<0.003	128	Clear No odor
2	99.98	116.4	2.6	10	8/22/2022	1,580	3,390	<0.001	<0.001	<0.001	<0.003	159	Clear No odor
2	99.99	116.4	2.6	10	11/7/2022	1,260	2,550	<0.001	<0.001	<0.001	<0.003	143	Clear No odor
2	99.98	116.4	2.6	10	3/3/2023	1,580	2,860	<0.001	<0.001	<0.001	<0.003	173	Clear No odor
2	99.94	116.4	2.6	10	5/15/2023	1,200	2,390	<0.001	<0.001	<0.001	<0.003	139	Clear No odor

ROC - BD Jct. N-20 (1R426-215) Unit Letter N, Section 20, T21S, R37E

MW	Depth to	Total	Well	Volume	Sample Date	Cl	TDS	Benzene	Toluene	Ethyl	Total	Sulfato	Comments
IVIVV	Water	Depth	Volume	Purged	Sample Date	Ci	103	belizelle	Toluelle	Benzene	Xylenes	Sullate	Comments
2	100.02	116.4	2.6	10	8/4/2023	760	1,720	<0.001	<0.001	<0.001	<0.003	99.1	Clear No odor
2	100.04	116.4	2.6	10	10/16/2023	1,040	2,290	<0.001	<0.001	<0.001	<0.003	153	Clear No odor
2	100.02	116.4	2.6	10	2/6/2024	950	1,900	<0.001	<0.001	<0.001	<0.003	134	Clear No odor
2	100	116.4	2.6	10	5/21/2024	800	2,110	<0.001	<0.001	<0.001	<0.003	147	Clear No odor
2	100.01	116.4	2.6	10	7/30/2024	770	2,220	<0.001	<0.001	<0.001	<0.003	505	Clear No odor
2	100.02	116.4	2.6	10	10/16/2024	750	2,260	<0.001	<0.001	<0.001	<0.003	459	Clear No odor

MW-2 Top of Casing: 3495.87 ft

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate	Comments
3	99.12	116.35	2.8	10	12/23/2019	980	1,880	<0.001	<0.001	<0.001	<0.003	152	Clear No odor
3	99.08	116.35	2.8	10	2/24/2020	920	1,800	<0.001	<0.001	<0.001	<0.003	117	Clear No odor
3	99.1	116.35	2.8	10	8/27/2020	1,200	2,560	<0.001	<0.001	<0.001	<0.003	92.1	Clear No odor
3	99.13	116.35	2.8	10	3/1/2021	900	1,890	<0.001	<0.001	<0.001	<0.003	117	Clear No odor
3	99.18	116.35	2.8	10	5/27/2021	980	1,920	<0.001	<0.001	<0.001	<0.003	103	Clear No odor
3	99.17	116.35	2.7	10	8/27/2021	870	1,850	<0.001	<0.001	<0.001	<0.003	151	Clear No odor
3	99.12	116.35	2.7	10	10/29/2021	880	1,740	<0.001	<0.001	<0.001	<0.003	126	Clear No odor
3	99.06	116.35	2.6	10	2/18/2022	860	1,640	<0.001	<0.001	<0.001	<0.003	133	Clear No odor
3	99.13	116.35	2.8	10	5/19/2022	800	1,760	<0.001	<0.001	<0.001	<0.003	136	Clear No odor
3	99.15	116.35	2.8	10	8/22/2022	820	2,240	<0.001	<0.001	<0.001	<0.003	92.8	Clear No odor
3	99.16	116.35	2.8	10	11/7/2022	900	1,690	<0.001	<0.001	<0.001	<0.003	95	Clear No odor
3	99.15	116.35	2.8	10	3/3/2023	820	1,620	<0.001	<0.001	<0.001	<0.003	102	Clear No odor
3	99.09	116.35	2.8	10	5/15/2023	760	1,670	<0.001	<0.001	<0.001	<0.003	104	Clear No odor
3	99.22	116.35	2.7	10	8/4/2023	750	1,760	<0.001	<0.001	<0.001	<0.003	112	Clear No odor
3	99.22	116.35	2.7	10	10/16/2023	770	1,700	<0.001	<0.001	<0.001	<0.003	134	Clear No odor
3	99.2	116.35	2.7	10	2/6/2024	730	1,650	<0.001	<0.001	<0.001	<0.003	125	Clear No odor
3	99.18	116.35	2.7	10	5/21/2024	600	1,630	<0.001	<0.001	<0.001	<0.003	137	Clear No odor

ROC - BD Jct. N-20 (1R426-215) Unit Letter N, Section 20, T21S, R37E

MW	Depth to	Total	Well	Volume	Sample Date	CI	TDS	Benzene	Toluene	Ethyl	Total	Sulfate	Comments
10100	Water	Depth	Volume	Purged	Sample Date	Ci	103	Delizelle	Toluelle	Benzene	Xylenes	Juliate	Comments
3	99.18	116.35	2.7	10	7/30/2024	760	1,910	<0.001	<0.001	<0.001	<0.003	156	Clear No odor
3	99.2	116.35	2.7	10	10/16/2024	550	1,630	<0.001	<0.001	<0.001	<0.003	341	Clear No odor

MW-3 Top of Casing: 3494.64 ft



February 16, 2024

KATIE JONES

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: BD JUNCTION N-20

Enclosed are the results of analyses for samples received by the laboratory on 02/07/24 8:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Celey D. Keine

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



#### Analytical Results For:

Rice Operating Company KATIE JONES 112 W. Taylor Hobbs NM, 88240

Fax To: (575) 397-1471

Received: 02/07/2024 Sampling Date: 02/06/2024
Reported: 02/16/2024 Sampling Type: Water

Project Name: BD JUNCTION N-20 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Dionica Hinojos

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Project Location: T21S R37E SEC20 N-LEA CTY., NM

#### Sample ID: MONITOR WELL #1 (H240568-01)

DTEV 0021D

mg/	L	Analyze	d By: JH					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
< 0.001	0.001	02/09/2024	ND	0.021	105	0.0200	0.651	
< 0.001	0.001	02/09/2024	ND	0.021	103	0.0200	0.807	
< 0.001	0.001	02/09/2024	ND	0.020	101	0.0200	1.05	
< 0.003	0.003	02/09/2024	ND	0.065	108	0.0600	0.942	
<0.006	0.006	02/09/2024	ND					
101 %	6 77.5-12.	5						
mg/	L	Analyze	d By: HM					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
1930	4.00	02/08/2024	ND	104	104	100	3.92	
mg/	L	Analyze	d Bv· AC					
			u by. Ac					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Result		•		BS 21.4	% Recovery	True Value QC 20.0	RPD 2.79	Qualifier
	Reporting Limit 50.0	Analyzed 02/08/2024	Method Blank		,	-		Qualifier
230	Reporting Limit 50.0	Analyzed 02/08/2024	Method Blank		,	-		Qualifier Qualifier
	Result <0.001 <0.001 <0.001 <0.003 <0.006 101 % mg/l	<0.001 0.001 <0.001 0.001 <0.001 0.001 <0.003 0.003 <0.006 0.006  101 % 77.5-12  mg/L  Result Reporting Limit	Result         Reporting Limit         Analyzed           <0.001	Result         Reporting Limit         Analyzed         Method Blank           <0.001	Result         Reporting Limit         Analyzed         Method Blank         BS           <0.001	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery           <0.001	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC           <0.001	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC         RPD           <0.001

Cardinal Laboratories \*=Accredited Analyte

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#### Analytical Results For:

Rice Operating Company KATIE JONES 112 W. Taylor Hobbs NM, 88240 Fax To: (575) 397-1471

Received: 02/07/2024
Reported: 02/16/2024
Project Name: BD JUNCTION N-20

NONE GIVEN

Project Location: T21S R37E SEC20 N-LEA CTY., NM

Sampling Date: 02/06/2024 Sampling Type: Water

Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

#### Sample ID: MONITOR WELL #2 (H240568-02)

Project Number:

RTFY 8021R

BIEX 8021B	mg/	<u> </u>	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	02/09/2024	ND	0.021	105	0.0200	0.651	
Toluene*	<0.001	0.001	02/09/2024	ND	0.021	103	0.0200	0.807	
Ethylbenzene*	<0.001	0.001	02/09/2024	ND	0.020	101	0.0200	1.05	
Total Xylenes*	<0.003	0.003	02/09/2024	ND	0.065	108	0.0600	0.942	
Total BTEX	<0.006	0.006	02/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 %	6 77.5-12	5						
Chloride, SM4500CI-B	mg/	L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	950	4.00	02/08/2024	ND	104	104	100	3.92	
Sulfate 375.4	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	134	25.0	02/08/2024	ND	21.4	107	20.0	2.79	
TDS 160.1	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	1900	5.00	02/12/2024	ND	833	83.3	1000	1.18	

Applyzod By: 14

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Celey D. Keine



02/06/2024

#### Analytical Results For:

Rice Operating Company KATIE JONES 112 W. Taylor Hobbs NM, 88240 Fax To: (575) 397-1471

Received: 02/07/2024

Reported: 02/16/2024 Sampling Type: Water Project Name: **BD JUNCTION N-20** Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Dionica Hinojos

Sampling Date:

Project Location: T21S R37E SEC20 N-LEA CTY., NM

#### Sample ID: MONITOR WELL #3 (H240568-03)

BTEX 8021B	mg/	L	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	02/09/2024	ND	0.021	105	0.0200	0.651	
Toluene*	<0.001	0.001	02/09/2024	ND	0.021	103	0.0200	0.807	
Ethylbenzene*	<0.001	0.001	02/09/2024	ND	0.020	101	0.0200	1.05	
Total Xylenes*	<0.003	0.003	02/09/2024	ND	0.065	108	0.0600	0.942	
Total BTEX	<0.006	0.006	02/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 %	6 77.5-12	5						
Chloride, SM4500Cl-B	mg/	L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	730	4.00	02/08/2024	ND	104	104	100	3.92	
Sulfate 375.4	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	125	25.0	02/08/2024	ND	21.4	107	20.0	2.79	
TDS 160.1	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	1650	5.00	02/12/2024	ND	833	83.3	1000	1.18	

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Celey D. Keine



#### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

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CHAIN-OF-CUSTODY AND ANAL Cardinal Laboratories, Inc. 101 East Marland - Hobbs, NM 88240 LAB Order ID# Tel (575) 393-2326 Fax (575) 393-2476 Company Name: **ANALYSIS REQUEST** RICE Operating Company **RICE Operating Company** (Circle or Specify Method No.) Project Manager 122 W Taylor Street ~ Hobbs, New Mexico 88240 Katie Jones (Street, City, Zip) 6010B/200. (575)397-1471 (575), 393-9174 122 W Taylor Street ~ Hobbs, New Mexico 88240 TPH 418.1/TX1005 / TX1005 Extended (C35) (575) 397-1471 (575) 393-9174 Cd Cr Pb Se Hg Project Name: BD Junction N-20 24 Hours Project Location: 8270C/625 T21S R37E Sec20 N ~ Lea County New Mexico Cations (Ca, Mg, Na, K) SAMPLING GC/MS Vol. 8260B/624 Total Dissolved Solids **METHOD** TCLP Semi Volatiles Turn Around Time CONTAINERS GC/MS Semi. Vol. (G)rab or (C)omp PCB's 8082/608 TCLP Pesticides **TCLP Volatiles** BOD, TSS, pH **DATE** (2024) FIELD CODE PAH 8270C SLUDGE CE (1-1Liter NaHSO4 LAB USE H2SO4 NONE HNO3 SOIL ONLY AIR RCI X X X 4 1 2/6 14:00 5 G Monitor Well #1 X X X X 4 1 9:50 X 2/6 G 5 Monitor Well #2 X X X X 4 11:05 X 5 Monitor Well #3 No Phone Results Yes Time: Date: Received by: Relinquished by: Time: Fax Results Additional Fax Number: Rozanne Johnson REMARKS: Received By: (Laboratory Staff) Relinquished by kjones@riceswd.com **Email Results:** rozanne@sdacres.com CHECKED BY (Circle One) Delivered By: Yes Sampler - UPS - Bus Other:



May 30, 2024

KATIE JONES

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: BD JUNCTION N-20

Enclosed are the results of analyses for samples received by the laboratory on 05/23/24 11:02.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Celey D. Keine

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



#### Analytical Results For:

Rice Operating Company KATIE JONES 112 W. Taylor Hobbs NM, 88240

Fax To: (575) 397-1471

Received: 05/23/2024 Sampling Date: 05/21/2024
Reported: 05/30/2024 Sampling Type: Water

Project Name: BD JUNCTION N-20 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: T21S R37E SEC20 N-LEA CTY., NM

#### Sample ID: MONITOR WELL #1 (H242869-01)

•	•							
mg/	L	Analyze	d By: JH					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.001	0.001	05/29/2024	ND	0.017	87.0	0.0200	0.201	
< 0.001	0.001	05/29/2024	ND	0.020	98.2	0.0200	0.490	
< 0.001	0.001	05/29/2024	ND	0.021	104	0.0200	0.977	
<0.003	0.003	05/29/2024	ND	0.064	107	0.0600	0.809	
<0.006	0.006	05/29/2024	ND					
104 %	6 77.5-12	5						
mg/	L	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
2120	4.00	05/23/2024	ND	104	104	100	3.77	
mg/	L	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
168	50.0	05/23/2024	ND	19.5	97.5	20.0	1.32	
mg/	L	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
	Result <0.001 <0.001 <0.003 <0.006  104 % mg/ Result 2120 mg/ Result 168 mg/	<0.001	Result         Reporting Limit         Analyzed           <0.001	Result         Reporting Limit         Analyzed         Method Blank           <0.001	Result         Reporting Limit         Analyzed         Method Blank         BS           <0.001	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery           <0.001	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC           <0.001	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC         RPD           <0.001

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



#### Analytical Results For:

Rice Operating Company KATIE JONES 112 W. Taylor Hobbs NM, 88240 Fax To: (575) 397-1471

Received: 05/23/2024

Reported: 05/30/2024 Project Name: **BD JUNCTION N-20** Project Number: NONE GIVEN

Project Location: T21S R37E SEC20 N-LEA CTY., NM Sampling Date: 05/21/2024 Sampling Type: Water

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

#### Sample ID: MONITOR WELL #2 (H242869-02)

mg/	L	Analyze	d By: JH					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.001	0.001	05/29/2024	ND	0.017	87.0	0.0200	0.201	
<0.001	0.001	05/29/2024	ND	0.020	98.2	0.0200	0.490	
<0.001	0.001	05/29/2024	ND	0.021	104	0.0200	0.977	
<0.003	0.003	05/29/2024	ND	0.064	107	0.0600	0.809	
<0.006	0.006	05/29/2024	ND					
102 %	6 77.5-12	5						
mg/	L	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
800	4.00	05/23/2024	ND	104	104	100	3.77	
mg/	L	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
147	25.0	05/23/2024	ND	19.5	97.5	20.0	1.32	
mg/	L	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
	Result <0.001 <0.001 <0.001 <0.003 <0.006 102 % mg/l Result 800 mg/l	<0.001	Result         Reporting Limit         Analyzed           <0.001	Result         Reporting Limit         Analyzed         Method Blank           <0.001	Result         Reporting Limit         Analyzed         Method Blank         BS           <0.001	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery           <0.001	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC           < 0.001	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC         RPD           <0.001

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



#### Analytical Results For:

Rice Operating Company KATIE JONES 112 W. Taylor Hobbs NM, 88240

Fax To: (575) 397-1471

Received: 05/23/2024 Reported: 05/30/2024 Project Name: **BD JUNCTION N-20** Project Number: NONE GIVEN

Sampling Type: Sampling Condition: Sample Received By:

Sampling Date:

Cool & Intact Tamara Oldaker

05/21/2024

Water

Project Location: T21S R37E SEC20 N-LEA CTY., NM

#### Sample ID: MONITOR WELL #3 (H242869-03)

BTEX 8021B	mg/	L	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	05/29/2024	ND	0.017	87.0	0.0200	0.201	
Toluene*	< 0.001	0.001	05/29/2024	ND	0.020	98.2	0.0200	0.490	
Ethylbenzene*	< 0.001	0.001	05/29/2024	ND	0.021	104	0.0200	0.977	
Total Xylenes*	<0.003	0.003	05/29/2024	ND	0.064	107	0.0600	0.809	
Total BTEX	<0.006	0.006	05/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 %	6 77.5-12	5						
Chloride, SM4500CI-B	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	600	4.00	05/23/2024	ND	104	104	100	3.77	
Sulfate 375.4	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	137	25.0	05/23/2024	ND	19.5	97.5	20.0	1.32	
TDS 160.1	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	1630	10.0	05/29/2024	8.00	843	84.3	1000	0.716	

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Celey D. Keine



#### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

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101 East Marland - Hobbs, NM 88240 Tel (575) 393-2326	II.i.		Page 1 of	1
Fax (575) 393-2326 Fax (575) 393-2476 Company Name:	l Laboratories	, Inc.	CHAIN-OF-CUSTODY AND ANALYSIS REQUEST	
, and the state of	BILL TO Company:	PO#	LAB Order ID #	
RICE Operating Company Project Manager:	RICE Operating Company	10#	ANALYSIS REQUEST	
Katie Jones	Address: (Street	t, City, Zip)	(Circle or Specify Method No.)	
Address: (Street, City, Zip)	122 W Taylor Street ~ Hobbs, New Mexico 882	240		1
122 W Taylor Street ~ Hobbs, New Mexico 88240	Phone#: (575) 393-9174	Fax#:	<b>- </b>	
Filotie #.	(373) 393-9174	(575)397-1471	MTBE 8021B/802 BTEX 8021B/602 TPH 418.1/TX1005 / TX1005 Extended (C35) PAH 8270C Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7 TCLP Metals Ag As Ba Cd Cr Pb Se Hg TCLP Volatiles TCLP Volatiles TCLP Semi Volatiles TCLP Pesticides SCIMS Vol. 8270C/625 CB's 8082/608 SCIMS Semi. Vol. 8270C/625 CB's 8081A/608 OD, TSS, pH Ioins (Ca, Mg, Na, K) nions (Cl, SO4, CO3, HCO3) ulfates otal Dissolved Solids	
(575) 393-9174 Project #: Project No.	) 397-1471		[22]	
Project Name:			MTBE 8021B/602 BTEX 8021B/602 TPH 418.1/TX1005 / TX1005 Extended (C35) PAH 8270C Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B TCLP Metals Ag As Ba Cd Cr Pb Se Hg TCLP Volatiles TCLP Volatiles TCLP Pesticides SCI SC/MS Vol. 8260B/624 SC/MS Semi. Vol. 8270C/625 CB's 8082/608 Sesticides 8081A/608 OD, TSS, pH olisture Content ations (Ca, Mg, Na, K) nions (Cl, SO4, CO3, HCO3) ulfates stal Dissolved Solids	
Project Location: BD Junction N-20			MTBE 8021B/602  BTEX 8021B/602  TPH 418.1/TX1005 / TX1005 Extended PAH 8270C  Total Metals Ag As Ba Cd Cr Pb Se Hg TCLP Metals Ag As Ba Cd Cr Pb Se Hg TCLP Volatiles  TCLP Volatiles  TCLP Pesticides  RCI  GC/MS Vol. 8260B/624  GC/MS Semi. Vol. 8270C/625  CB's 8082/608  SOD, TSS, pH  Aloisture Content Aloisture Content ations (Ca, Mg, Na, K)  vulfates  otal Dissolved Solids  hlorides	
T21S R37E Sec20 N ~ Lea County New Mexico	Sampler Signature: Rozanne Jo	hnsen (575)631-9310		
			02 02 005 / TX1005 E As Ba Cd Cr Pb As Ba Cd Cr Pb As Ba Cd Cr Pb (B) (B) (B) (B) (B) (B) (B) (B) (B) (B)	
H24289	MATRIX PRESERVA METHO			13
	0) 0	0	MTBE 8021B/602 BTEX 8021B/602 TPH 418.1/TX1005 / TX1005 PAH 8270C Total Metals Ag As Ba Cd Cr TCLP Metals Ag As Ba Cd Cr TCLP Semi Volatiles TCLP Pesticides RCI GC/MS Semi. Vol. 8270C/625 PCB's 8082/608 Pesticides 8081A/608 BOD, TSS, pH Moisture Content Cations (Ca, Mg, Na, K) Anions (Cl, SO4, CO3, HCO3 Sulfates Total Dissolved Solids Chalorides	2
FIELD CODE	N (VOA)	adol lobe	3 As 8 8 8 8 8 8 9 9 NA/6i NA/6i Sol	18
LAB USE	TA M M M	)24)	11BA   11	Ė
LAB # FIELD CODE  (C) to quickless of the control o	# CONTAINERS WATER SOIL AIR SLUDGE HCL (4-40ml VOA) HNO3 NaHSO4	ICE (1-1Liter HDPEN NONE DATE (2024) TIME	MTBE 8021B/602 BTEX 8021B/602 TPH 418.1/TX1005 / TOH 418.1/TX1005 / TOH Metals Ag As Be TCLP Metals Ag As B TCLP Volatiles TCLP Semi Volatiles TCLP Pesticides TCLP Pesticides GC/MS Semi. Vol. 82: RCI GC/MS Semi. Vol. 82: PCB's 8082/608 PCB's 8082/608 BOD, TSS, pH Moisture Content Cations (Ca, Mg, Na, Anions (Cl, SO4, CO3) Sulfates Total Dissolved Solids Chlorides	o lun
9	# COI WATE SOIL AIR SLUD HCL (4 HNO <sub>3</sub> NaHSC	ICE NON DATE	TBE TEX THE TEX TABLE TO THE TEX TEX TEX TEX TEX TEX TEX TEX TEX TE	Turn Around Time ~ 24 Hours
Monitor Well #1 G	5 X 4			I I
Monitor Well #2 G	5 X 4	0/21 15.35	X	_
3 Monitor Well #3 G			X	
		1 5/21 12:10	x x x x	+
		<del>-                                     </del>		+
		+		+
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		+		+
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linquished by: Date: Time: Receive	by: Date:			-
zanne-Johnson 5/23/2014 9:38	La Date.	Time: P	Phone Results Yes No	
	By: (Laboratory Staff) Date: 1	4 9:3/ F	Fax Results Yes No Additional Fax Number:	
Jan-Jan 5/23/2024			REMARKS:	
livered By: (Circle One)	amara Klaansk	5-23-24	Email Results: kjones@riceswd.com	
livered By: Circle One) Sample C	Cool Intact CHECKED B	BY:	rozanne@sdacres.com	
			- SESTING COUNTY	
mpler - UPS - Bus Other.	The state of the s			
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August 12, 2024

KATIE JONES

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: BD JUNCTION N-20

Enclosed are the results of analyses for samples received by the laboratory on 07/31/24 10:47.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



#### Analytical Results For:

Rice Operating Company KATIE JONES 112 W. Taylor Hobbs NM, 88240

Fax To: (575) 397-1471

 Received:
 07/31/2024
 Sampling Date:
 07/30/2024

 Reported:
 08/12/2024
 Sampling Type:
 Water

Project Name: BD JUNCTION N-20 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: T21S R37E SEC20 N-LEA CTY., NM

#### Sample ID: MONITOR WELL #1 (H244560-01)

BTEX 8021B	mg/	L	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	08/06/2024	ND	0.021	105	0.0200	4.08	
Toluene*	<0.001	0.001	08/06/2024	ND	0.020	102	0.0200	5.78	QR-03
Ethylbenzene*	< 0.001	0.001	08/06/2024	ND	0.020	98.9	0.0200	6.38	QR-03
Total Xylenes*	<0.003	0.003	08/06/2024	ND	0.059	97.8	0.0600	6.13	QR-03
Total BTEX	<0.006	0.006	08/06/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	90.2 9	% 77.5-12	5						
Chloride, SM4500Cl-B (Water)	mg/	L	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	2550	4.00	08/07/2024	ND	100	100	100	7.69	
Sulfate 375.4	mg/	L	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	294	50.0	08/08/2024	ND	21.8	109	20.0	12.5	QM-07
TDS 160.1	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	5120	5.00	08/07/2024	ND	845	84.5	1000	0.646	

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



#### Analytical Results For:

Rice Operating Company KATIE JONES 112 W. Taylor Hobbs NM, 88240

Fax To: (575) 397-1471

Received: 07/31/2024
Reported: 08/12/2024
Project Name: BD JUNCTION N-20
Project Number: NONE GIVEN

Sampling Date: Sampling Type: Sampling Condition: Sample Received By:

Water Cool & Intact Tamara Oldaker

07/30/2024

Project Location: T21S R37E SEC20 N-LEA CTY., NM

#### Sample ID: MONITOR WELL #2 (H244560-02)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.001	0.001	08/06/2024	ND	0.021	105	0.0200	4.08	
Toluene*	< 0.001	0.001	08/06/2024	ND	0.020	102	0.0200	5.78	
Ethylbenzene*	< 0.001	0.001	08/06/2024	ND	0.020	98.9	0.0200	6.38	
Total Xylenes*	<0.003	0.003	08/06/2024	ND	0.059	97.8	0.0600	6.13	
Total BTEX	<0.006	0.006	08/06/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	89.2	% 77.5-12	5						
Chloride, SM4500Cl-B (Water)	mg/	L	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	770	4.00	08/07/2024	ND	100	100	100	7.69	
Sulfate 375.4	mg/	L	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	505	83.3	08/08/2024	ND	21.8	109	20.0	12.5	
TDS 160.1	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	2220	5.00	08/07/2024	ND	845	84.5	1000	0.646	

Analyzed By: JH

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Celey D. Keine



#### Analytical Results For:

Rice Operating Company KATIE JONES 112 W. Taylor Hobbs NM, 88240 Fax To: (575) 397-1471

Received: 07/31/2024
Reported: 08/12/2024
Project Name: BD JUNCTION N-20

NONE GIVEN

Project Location: T21S R37E SEC20 N-LEA CTY., NM

Sampling Date: 07/30/2024 Sampling Type: Water

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

#### Sample ID: MONITOR WELL #3 (H244560-03)

Project Number:

RTFY 8021R

•	e Value QC RPD							
1.08		% Recovery	BS	Method Blank	Analyzed	Reporting Limit	Result	Analyte
	0.0200 4.08	105	0.021	ND	08/06/2024	0.001	<0.001	Benzene*
5.78	0.0200 5.78	102	0.020	ND	08/06/2024	0.001	<0.001	Toluene*
5.38	0.0200 6.38	98.9	0.020	ND	08/06/2024	0.001	<0.001	Ethylbenzene*
5.13	0.0600 6.13	97.8	0.059	ND	08/06/2024	0.003	<0.003	Total Xylenes*
				ND	08/06/2024	0.006	<0.006	Total BTEX
						77.5-125	85.0 %	Surrogate: 4-Bromofluorobenzene (PID
				d By: CT	Analyzo		/1	CI I I CHAFFORD B (W. )
				u by. Ci	Allalyze		mg/L	Chloride, SM4500Cl-B (Water)
RPD Qualifier	e Value QC RPD	% Recovery	BS	Method Blank	Analyzed	Reporting Limit		Analyte
•	e Value QC RPD 100 7.69	% Recovery	BS 100	-				
•	•	,		Method Blank	Analyzed	Reporting Limit	Result	Analyte
7.69	•	100		Method Blank	Analyzed 08/07/2024	Reporting Limit	Result 760 mg/L	Analyte  Chloride*
7.69  RPD Qualifier	100 7.69	100	100	Method Blank ND d By: CT	Analyzed 08/07/2024 Analyzed	Reporting Limit	Result 760 mg/L	Analyte Chloride* Sulfate 375.4
7.69  RPD Qualifier	100 7.69 e Value QC RPD	100 % Recovery	100 BS	Method Blank ND d By: CT Method Blank ND	Analyzed 08/07/2024 Analyzed	Reporting Limit 4.00  Reporting Limit 25.0	Result 760 mg/L Result	Analyte  Chloride*  Sulfate 375.4  Analyte
7.69  RPD Qualifier 12.5	100 7.69 e Value QC RPD	100 % Recovery 109	100 BS	Method Blank ND d By: CT Method Blank ND	Analyzed 08/07/2024 Analyzed Analyzed 08/08/2024	Reporting Limit 4.00  Reporting Limit 25.0	Result 760 mg/L Result 156 mg/L	Analyte  Chloride* Sulfate 375.4  Analyte  Sulfate*
5	0.0200 6	98.9	0.020	ND ND ND	08/06/2024 08/06/2024 08/06/2024	0.001 0.003 0.006	<0.001 <0.003 <0.006	Ethylbenzene* Total Xylenes* Total BTEX  Surrogate: 4-Bromofluorobenzene (PID

Applyzod By: 14

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Celey D. Keine



#### **Notes and Definitions**

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ND Analyte NOT DETECTED at or above the reporting limit

Analyte NOT DETECTED at or above the reporting infini

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below  $6^{\circ}\text{C}$ 

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Released to Imaging: 9/18/2025 2:05:40 PM



October 24, 2024

KATIE JONES

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: BD JUNCTION N-20

Enclosed are the results of analyses for samples received by the laboratory on 10/16/24 15:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

B11 4



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

#### Analytical Results For:

Rice Operating Company KATIE JONES 112 W. Taylor Hobbs NM, 88240

Fax To: (575) 397-1471

Received:10/16/2024Sampling Date:10/16/2024Reported:10/24/2024Sampling Type:Water

Project Name: BD JUNCTION N-20 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Alyssa Parras

A .. . l. ... . d D. .. 311

Project Location: T21S R37E SEC20 N-LEA CTY., NM

#### Sample ID: MONITOR WELL #1 (H246314-01)

DTEV 0021D

	L	Anaiyze	d By: JH					PH-1
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.001	0.001	10/21/2024	ND	0.018	92.4	0.0200	5.77	
< 0.001	0.001	10/21/2024	ND	0.021	106	0.0200	2.45	
< 0.001	0.001	10/21/2024	ND	0.021	104	0.0200	1.53	
<0.003	0.003	10/21/2024	ND	0.062	104	0.0600	1.45	
<0.006	0.006	10/21/2024	ND					
106 %	6 77.5-12	5						
mg/	L	Analyze	d By: KV					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
2420	4.00	10/18/2024	ND	104	104	100	0.00	
mg/	L	Analyze	d By: CT					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
223	50.0	10/17/2024	ND	21.1	106	20.0	13.4	
mg/	L	Analyze	d By: CT					
mg/ Result	Reporting Limit	Analyzed Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
_	<0.001 <0.001 <0.001 <0.003 <0.006  106 9 mg/ Result 2420 mg/ Result	<0.001 0.001 <0.001 0.001 <0.001 0.001 <0.003 0.003 <0.006 0.006  106 % 77.5-12  mg/L  Result Reporting Limit 2420 4.00  mg/L  Result Reporting Limit	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Analytical Results For:

Rice Operating Company KATIE JONES 112 W. Taylor Hobbs NM, 88240 Fax To: (575) 397-1471

Received: 10/16/2024 Reported: 10/24/2024 Project Name: **BD JUNCTION N-20** 

NONE GIVEN

Project Location: T21S R37E SEC20 N-LEA CTY., NM Sampling Date: 10/16/2024 Water

Sampling Type: Sampling Condition: Cool & Intact Sample Received By:

Alyssa Parras

### Sample ID: MONITOR WELL #2 (H246314-02)

Project Number:

BTEX 8021B	mg/	L	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	10/21/2024	ND	0.018	92.4	0.0200	5.77	
Toluene*	<0.001	0.001	10/21/2024	ND	0.021	106	0.0200	2.45	
Ethylbenzene*	<0.001	0.001	10/21/2024	ND	0.021	104	0.0200	1.53	
Total Xylenes*	<0.003	0.003	10/21/2024	ND	0.062	104	0.0600	1.45	
Total BTEX	<0.006	0.006	10/21/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 %	6 77.5-12	5						
Chloride, SM4500Cl-B (Water)	mg/	L	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	750	4.00	10/18/2024	ND	104	104	100	0.00	
Sulfate 375.4	mg/	L	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	459	83.3	10/17/2024	ND	21.1	106	20.0	13.4	
TDS 160.1	mg/	L	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	2260	5.00	10/23/2024	ND	840	84.0	1000	1.38	

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

### Analytical Results For:

Rice Operating Company KATIE JONES 112 W. Taylor Hobbs NM, 88240

Fax To: (575) 397-1471

Received: 10/16/2024 Reported: 10/24/2024 Project Name: **BD JUNCTION N-20** Project Number: NONE GIVEN

Sampling Type: Sampling Condition: Sample Received By:

Sampling Date:

10/16/2024 Water Cool & Intact

Alyssa Parras

Project Location: T21S R37E SEC20 N-LEA CTY., NM

### Sample ID: MONITOR WELL #3 (H246314-03)

BTEX 8021B	mg/	L	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.001	0.001	10/21/2024	ND	0.018	92.4	0.0200	5.77	
Toluene*	< 0.001	0.001	10/21/2024	ND	0.021	106	0.0200	2.45	
Ethylbenzene*	< 0.001	0.001	10/21/2024	ND	0.021	104	0.0200	1.53	
Total Xylenes*	< 0.003	0.003	10/21/2024	ND	0.062	104	0.0600	1.45	
Total BTEX	<0.006	0.006	10/21/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 %	6 77.5-12	5						
Chloride, SM4500Cl-B (Water)	mg/	L	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	550	4.00	10/18/2024	ND	104	104	100	0.00	
Sulfate 375.4	mg/	L	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	341	50.0	10/17/2024	ND	21.1	106	20.0	13.4	
TDS 160.1	mg/	L	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

### **Notes and Definitions**

PH-1 Insufficient preservative to reduce the sample pH to less than 2. Sample was analyzed within 7 days recommended for volatile

analysis without preservative.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Monitor Well #1   G   5   X   4   1   10/16   14:30   X	(575) 393-91	74	(575)	397-	147	1		/	1									(C3)		901		П													
ONLY	Project #:						/					1	7					tended		Se Hg															
ONLY	Project Location:					Sam	ler S	ighatu	ure:	Koz	anne	Johr	nson (5	75)631-	9310			Δ		2 1	-			- 1	- 1	22					18		1.1		urs
ONLY    ONLY	T21S R37E	Sec20 N ~ Lea County New Me	exico			1		1	1		L							905		5 5		Ш				1/62					ĮΫ́	2			운
ONLY	211					MA	TRI	X_	P					SAM	PLING			/TX1		Ba Cd		S			3/624	82700		808		N P K	7 kg		olids		~ 24 Hours
Monitor Well #1   G   5   X   4   1   10/16 14:30   X		FIELD CODE	6	# CONTAINERS	WATER	SOIL	AIR	SLUDGE	HCL (4-40ml VOA)	HNO <sub>3</sub>	NaHSO₄	H₂SO₄	ICE (1-1Lite HDPE)	DATE (2024)	TIME				8270C			TCLP Semi Volatile	TCLP Pesticides		GC/MS Vol. 8260E		808	Pesticides 8081A/6	BOD, TSS, pH	Moisture Content	Anione (Cl. SO4.	5	Total Dissolved S	Chlorides	Turn Around Time
Monitor Well #2 G 5 X 4 1 1 10/16 9:50 X X X X X X	i	Monitor Well #1			-				_		П	-	_	-	-	1	_				T											X	х	Х	
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Rezample Johnson 10/10/24 15:35   No Additional Fax Number:  Received By: (Laboratory Staff) Date: Time: REMARKS:	Rozanne Johnson	1 10 2		00	ب	0	2	01-7				1									Ye	es		No		Add	litior	nal F	ax N	lumb	ber:	_			

CHECKED BY:

(Initials)

Sample Condition

Intact

Yes ~

Email Results: kjones@riceswd.com

rozanne@sdacres.com

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Page 6 of

Released to Imaging: 9/18/2025 2:05:40 PM

Received by OCD: 9/18/2025 10:47:05 AM

Delivered By:

(Circle One)

Sampler - UPS - Bus - Other:

Chris Flores Logger: SB-1 SB-2 SB-8 Harrison & Cooper, ROC AB Price Technologic Driller: Inc. \$B-5 Û Drilling Method: Mud Drilling Company: ROC Lease R Start Date: 5/18/2015 **Project Name:** Well ID: MW-1 End Date: 5/18/2015 BD Jct. N-20 MW-1 Comments: MW-1 was installed by mud drilling. Samples were taken for Location: UL/N, Sec. 20, T21S, R37S lithology only. DRAFTED BY: L. Weinheimer **Lat:** 32.458713 County: Lea State: NM TD = 145 ftGW = 99 ftLong: -103.185052

	TD = 145 f	l .		GW = 99 ft	Long: -103.185052	State: NW					
Depth (feet)	Chloride field tests	LAB	PID	Description	Lithology	Well Construction					
SS				Brown Fine Sand, Dry, No Odor		Concrete					
5 ft				Red Clay, Dry, No Odor							
10 ft				Tan Sand, Dry, No Odor		Q					
15 ft				I an Sand, Dry, No Odor		4 in. PVC					
20 ft						Bentonite					
25 ft						Seal					
30 ft				Ground Up Caliche, Dry, No Odor							
35 ft											
40 ft											
						J .					

Depth (feet)	Chloride field tests	LAB	PID	Description	Lithology	Well Construction						
45 ft 50 ft				Ground Up Caliche, Dry, No Odor								
55 ft												
60 ft						Bentonite						
65 ft				Caliche w/Tan Sand Dry No Odor								
70 ft				Caliche w/Tan Sand, Dry, No Odor								
75 ft												
80 ft												
85 ft												
90 ft				Cemented Sandstone, Dry, No Odor								
95 ft						Sand Pack						
100 ft												

Depth (feet)	Chloride field tests	LAB	PID	Description	Lithology	Well Construction
		LAB	PID	Brown Fine Sand, Wet from Mudding Up, No Odor	Lithology	Well Construction  Sand Pack
140 ft						10' Sump
145 ft				(143'-145)Red Bed, Wet from Mudding Up, No Odor		10.8

End Date:

MW-2

Logger: Nick Kopiasz Driller: **HCI** Drilling **Drilling Method:** Air/Mud Rotary MW-1 0 25 50 Feet Start Date: 11/15/2019

11/15/2019

TASMAN GEOSCIENCES

**Project Name:** Well ID: BD Jct. N-20

Project Consultant: Tasman

Comments: Located approximately 100 ft northwest of the former

Location:

# junction box. Soil samples were collected from drill cuttings at specified Unit N, Section 20, T21S, R37E intervals. **DRAFTED BY: N.Kopiasz** Lat: 32.459017 County: Lea TD = 113 ftGW = 99 ft**Long:**-103.185431 (NAD83) State: NM Depth Chloride LAB PID **Well Construction** Description Lithology (feet) field tests SP-Rust red, very fine poorly graded Concrete sand SS SP-Same As Above (SAA) 5 ft SW-reddish tan, well graded with caliche and very fine sands 10 ft PVC SW-tan, well graded with caliche and .⊑ fine sands 15 ft **Bentonite** SW-SAA Seal 20 ft GW-tan, well graded gravels of caliche and fine sands 25 ft **GW-SAA** 30 ft SW-tan, well graded caliche and fine sands 35 ft

Depth (feet)	Chloride field tests	LAB	PID	Description	Lithology	Well Construction
40 ft				SW-well graded caliche and sandstone grains		
45 ft				SP-tan, poorly graded fine sands		
50 ft				SP-SAA		
				SP-SAA		
55 ft				SP-SAA		
60 ft				SP-reddish tan, very fine sands		Bentonite Seal
65 ft				SW-reddish tan, well graded with sandstone grains and very fine sand		
70 ft				GW-reddish tan, well graded sandstone gravels		
75 ft				sandstone gravels		
80 ft				GW-SAA		
85 ft				GW-SAA		

Depth (feet)	Chloride field tests	LAB	PID	Description	Lithology	Well Construction
00.64				SP-reddish brown, poorly graded fine sands		Bentonite Seal
90 ft 95 ft				SP-SAA		
100 ft				SP-SAA		Sand
105 ft				SP-SAA		Pack
110 ft				SP-SAA		
115 ft				SP-SAA		

MW-3

Nick Kopiasz Logger:

Driller: **HCI** Drilling

**Drilling Method:** Air/Mud Rotary

Start Date: 12/20/2019 End Date: 12/20/2019

MW-1 0 25 50 ■■■ Feet \_MW-3



**Project Name:** Well ID:

Project Consultant: Tasman

BD Jct. N-20

Location:

Comments: Located approximately 150 ft southeast of the former junction box. Soil samples were collected from drill cuttings at specified

intervals.

DRAFTED BY: N.Kopiasz

TD = 115 ftGW = 99 ft Unit N, Section 20, T21S, R37E

**Lat:** 32.458541 County: Lea Long:-103.184832 (NAD83) State: NM

	TD = 11	o ft		GW = 99 ft	Long:-103.184832 (NAD83) State: NA					
Depth (feet)	Chloride field tests	LAB	PID	Description	Lithology	Well Construction				
SS				SP-rust red, very fine poorly graded sand		Concrete				
5 ft				SM-rust red, fine sand with silt, cohesive clumps of silt and sand						
10 ft				SW-tan, well graded fine sand and coarse caliche grains						
15 ft				GW-tan, well graded gravelsof caliche and fine sand		2 in. PVC				
20 ft				GW-Same As Above (SAA)		Bentonite				
25 ft				SP-tan, poorly graded fine sand						
				GW-tan, well graded caliche gravels with fine sand						
30 ft				SP-orangish tan, poorly graded fine sand						
35 ft										

Depth (feet)	Chloride field tests	LAB	PID	Description	Lithology	Well Construction
40 ft				SP-SAA		
45 ft				SW-tan, well graded fine sand and coarse caliche grains		
50 ft				SW-SAA		
				SP-tan, poorly graded fine sands		
55 ft 60 ft				SP-SAA		Bentonite
65 ft				GW-reddish tan, well graded gravels of sandstone and sand		Seal
				SW-reddish tan, well graded coarse sandstone and fine sand		
70 ft				SP-reddish brown,		
75 ft				SP-SAA		
80 ft				SW-reddish brown, well graded coarse sandstone with fine sand		
85 ft						

Depth (feet)	Chloride field tests	LAB	PID	Description	Lithology	Well Construction
00.5				SP-reddish brown, poorly graded fine sand		Bentonite
90 ft 95 ft				SP-reddish brown, poorly graded fine sand with occasional chunks of sandstone		
100 ft				NR-No Recovery		
105 ft				NR		Sand Pack
110 ft				NR		
115 ft				NR		

Sante Fe Main Office Phone: (505) 476-3441

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Action 507166

### **CONDITIONS**

Operator:	OGRID:
RICE OPERATING COMPANY	19174
PO Box 5630	Action Number:
Hobbs, NM 88241	507166
	Action Type:
	[UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

### CONDITIONS

Created By	Condition	Condition Date
shanna.smith	OCD previous October 5, 2022 approval to eliminate contaminates of concern is rescinded. All groundwater samples will be analyzed for all constituents listed in 20.6.2.3103 NMAC. Operators may request to reduce sampling based upon future results.	9/18/2025
shanna.smith	Transition from submitting annual monitoring and sampling reports to submitting quarterly monitoring and sampling reports.	9/18/2025
shanna.smith	Submit a C-141N for all future monitoring and sampling events.	9/18/2025