

L Peter Galusky, Jr PE

5935 Exeter Cir Norcross, GA 30071 | 470 955-5335 | peter@terrae.us

April 1st, 2025

Michael Buchanan

New Mexico Energy, Minerals, & Natural Resources
Oil Conservation Division, Environmental Bureau
1220 S. St. Francis Drive
Santa Fe, New Mexico 87504

Re: **2024 Annual Report**

Rice Operating Company – Vacuum SWD System

Vacuum F-33 Boot (1R425-37): UL/F, Sec. 33, T17S, R35E

NMOCD Application ID: pEJH0808142228, Incident ID: nAPP2110337215

Sent via E-mail

Mr. Buchanan:

This letter summarizes progress made at this site over the past calendar year pursuant to the NMOCD's approval email letter of September 13th, 2024 (Appendix, Exhibit 1). This site is operated by Rice Operating Company (ROC). The site is located approximately 2.5 miles east of Buckeye, New Mexico at UL/F, Sec. 33, T17S, R35E as shown on the Geographic Location Map (Appendix, Figure 1). A site schematic is given in Appendix, Figure 2. The depth to the water table averaged approximately 85 ft bgs in the up-gradient monitor well, MW-2, the direction of groundwater flow is toward the southeast (Appendix, Figure 3).

Background and Previous Work

In 2007, ROC initiated work on the former Vacuum F-33 boot junction box and a junction box disclosure report was submitted to NMOCD. An NMOCD approved Investigation and Characterization Plan (ICP) was implemented in 2009 to delineate residual soil chlorides and hydrocarbons and to evaluate groundwater quality beneath the site. The results of this work were reported to NMOCD in July 2013, along with a Corrective Action Plan (CAP), which proposed the installation of a 20-mil reinforced synthetic liner and an up-gradient groundwater monitor well. The CAP was approved by NMOCD on August 14th, 2013.

ROC completed the installation of the liner and restored the ground surface as specified in the CAP in early 2014. The results of this work were summarized and reported to NMOCD as an "Initial CAP Report and Soil Closure Request" on February 10th, 2014, and this was approved on March 28th, 2014. Following continued groundwater monitoring through 2014, ROC submitted a summary report "Proposed Groundwater Recovery and Project Update" to NMOCD which proposed limited groundwater removal from the near-source monitor well (MW-1) to reduce

Rice Operating Company Vacuum F-33 Boot Annual Report

groundwater chloride mass. NMOCD approved this work on April 2nd, 2015. ROC subsequently began groundwater pumping in May 2015.

Groundwater Chlorides & BTEX

Results of groundwater sampling from March 2009 through December 2024 are given in the Appendix Figure 4, Table 1 (annual averages) and Table 2 (full dataset). Average annual groundwater chloride concentrations in the down-gradient monitor well (MW-1) were unchanged from 2023 to 2024 at 522 mg/l. Average annual groundwater chloride concentrations in the up-gradient monitor well (MW-2) dropped slightly from 73 mg/l in 2023 to 69 mg/l in 2024. NMOCD granted approval to cease BTEX sampling in 2020 since these had not been detected in groundwater samples from the beginning of sampling in 2009 through the first quarter of 2020.

A total of approximately 16,511 bbls of high-chloride groundwater were pumped from the near-source monitor well (MW-1) from 2015 through 2024, resulting in the removal of an estimated 1,863 kg of chloride. The removed groundwater was hauled to an off-site location and utilized for beneficial use.

ROC will continue groundwater recovery and quarterly monitoring well sampling in 2025.

ROC is the service provider (agent) for the Vacuum 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. The Vacuum system is now abandoned. We thus submit this report for your review and consideration. Please call Rice Operating Company or me if you have any questions or need additional information.

Thank you.

Sincerely,



L. Peter Galusky, Jr. P.E.
NM Prof. Engineer No. 22561

Copy: Rice Operating Company
Attachments: ... as noted, above.

L Peter Galusky, Jr PE

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From: OCDOnline@state.nm.us
To: [Katie Jones](#)
Subject: The Oil Conservation Division (OCD) has approved the application, Application ID: 327879
Date: Friday, September 13, 2024 3:26:58 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#) nAPP2110337215, with the following conditions:

- **Review of the 2023 Annual Report for the ROC--Vacuum SWD System: content satisfactory**
- 1. Continue groundwater recovery and sampling events as prescribed.**
- 2. 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



VACUUM F-33 BOOT

1R425-37

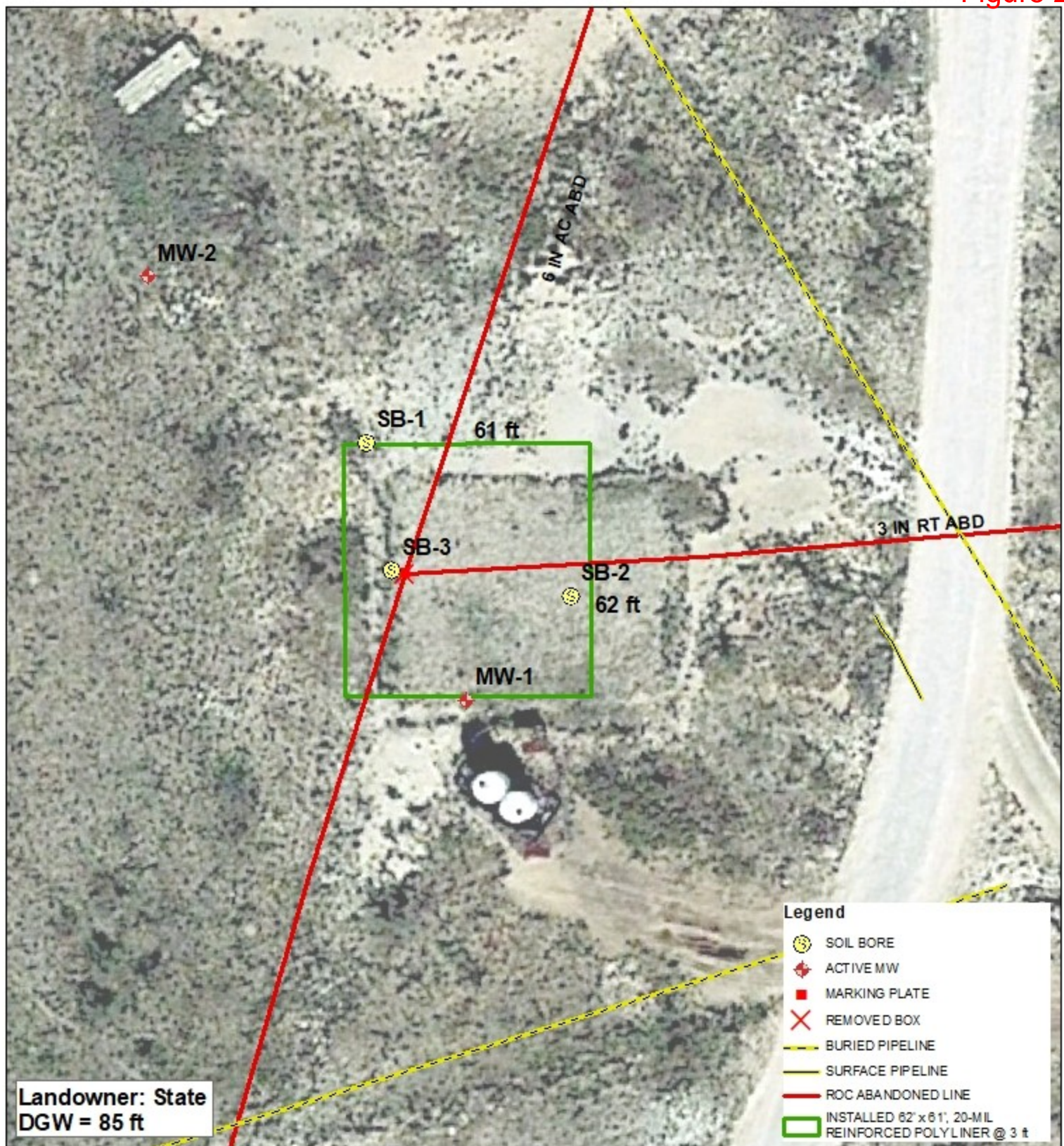
UL F SECTION 33
T-17-S R-35-E
LEA COUNTY, NM

GPS: 32.792674 -103.464829
NAD 83 STATE PLANE PROJ
NM EAST ZONE

0 2,500 5,000
Feet

Drawing date: 1/21/25
Drafted by: T. Grieco





VACUUM F-33 BOOT

1R425-37

UL F SECTION 33
T-17-S R-35-E
LEA COUNTY, NM

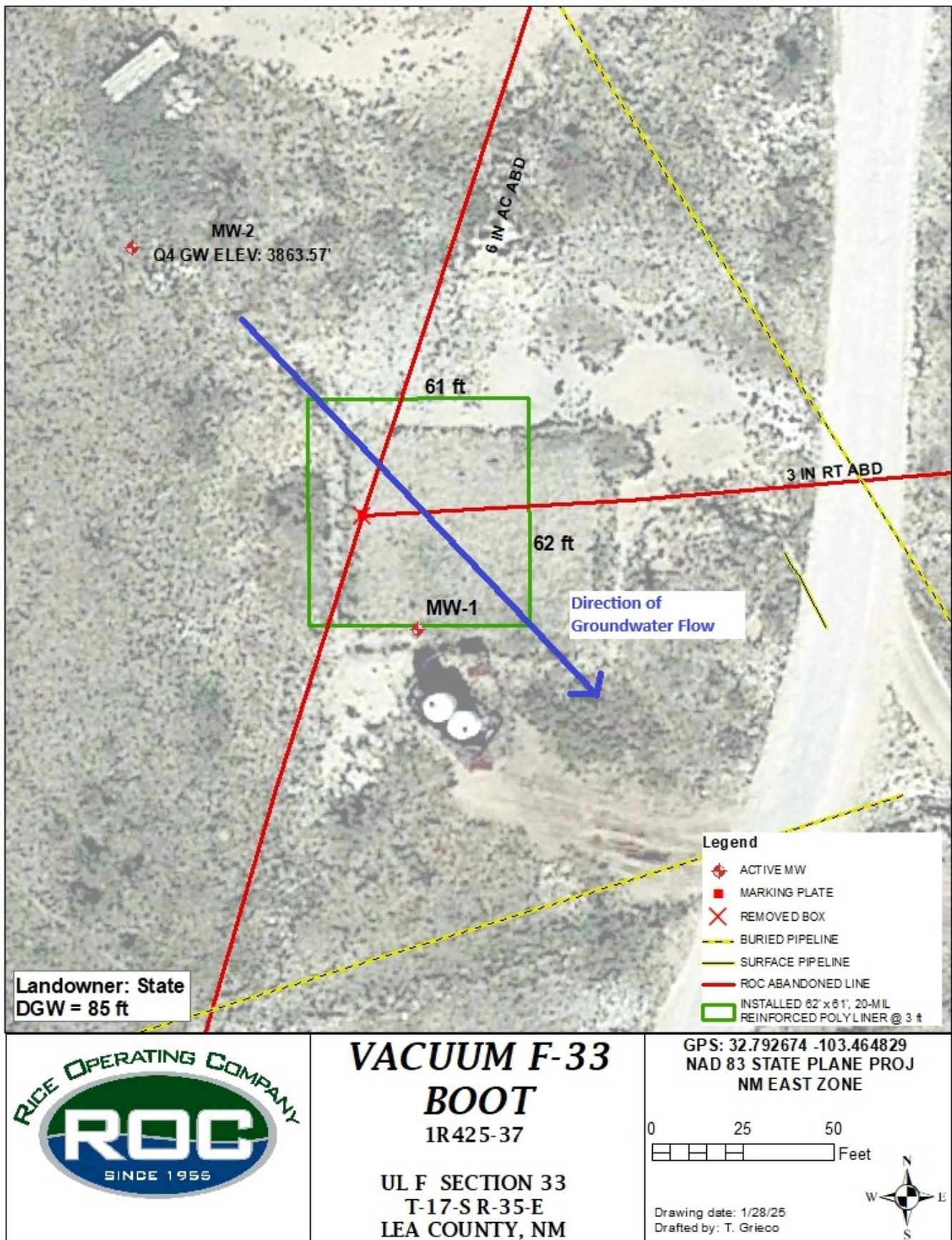
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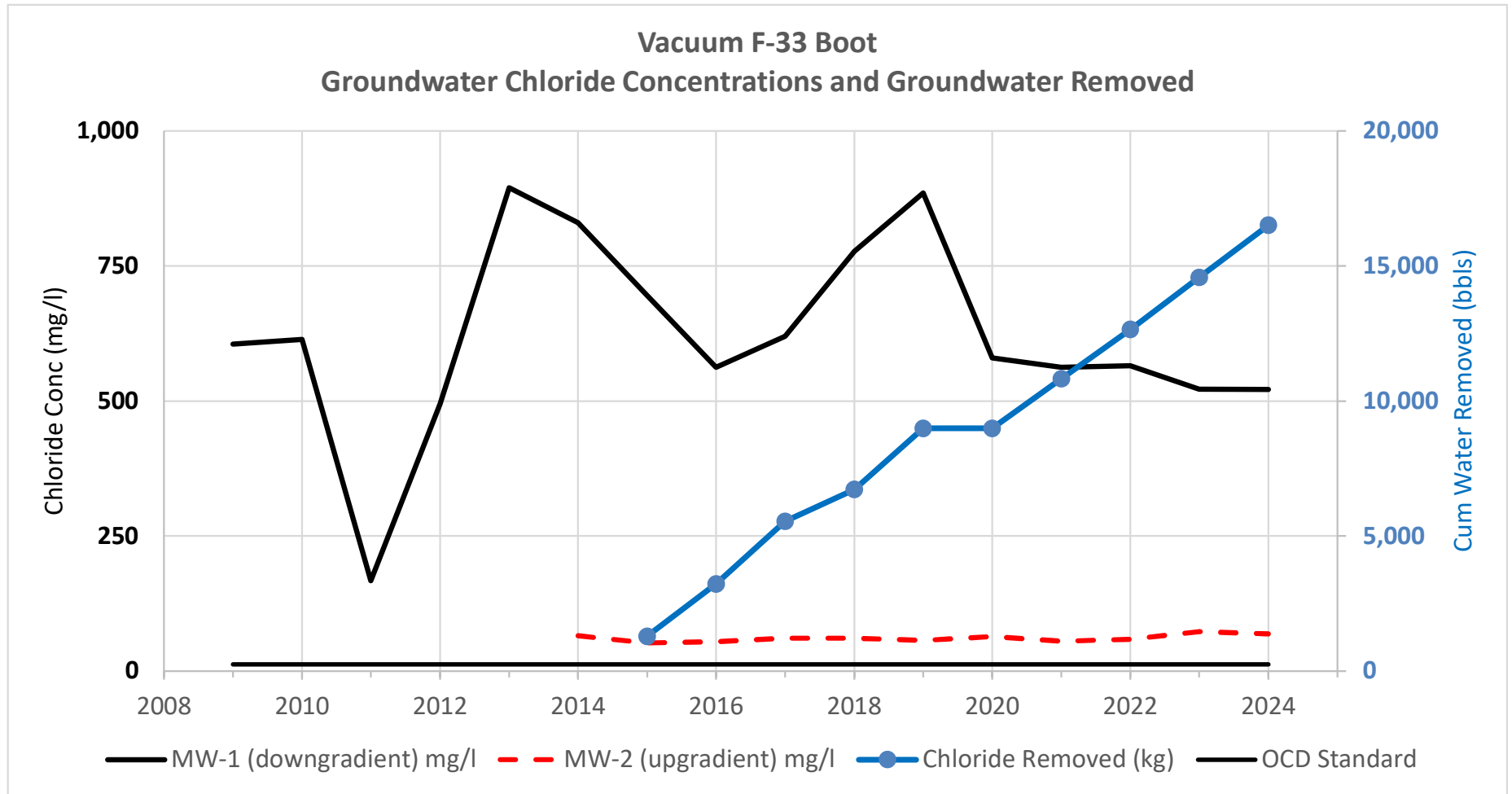
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Drawing date: 1/21/25
Drafted by: T. Grieco



Groundwater Elevation 4Q 2025





Rice Operating Company**Vacuum F-33 Boot****Groundwater Chlorides - Annual Average Concentrations (mg/l)**

	MW-1 (downgradient)	MW-2 (upgradient)	NMOCD Standard	Groundwater Removed	Chloride Removed
Year	mg/l	mg/l	mg/l	(bbls)	(kg)
2009	605		250		
2010	614		250		
2011	167		250		
2012	495		250		
2013	895		250		
2014	830	65	250		
2015	695	52	250	1,285	113
2016	563	54	250	3,225	299
2017	620	61	250	5,545	666
2018	778	61	250	6,725	884
2019	885	57	250	8,985	1,172
2020	580	64	250	8,985	1,172
2021	563	55	250	10,821	1,361
2022	566	59	250	12,646	1,537
2023	522	73	250	14,577	1,707
2024	522	69	250	16,511	1,863

ROC - Vacuum F-33 boot (1R425-37)**Unit Letter F, Section 33, T17S, R35E**

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate	Comments
1	80.63	126.5	29.8	300	3/2/2009	432	1,070	<0.001	<0.001	<0.001	<0.003	56	Clear No odor
1	80.73	126.5	29.8	150	4/28/2009	600	1,330	<0.001	<0.001	<0.001	<0.003	38.3	Clear No odor
1	80.85	126.5	29.7	150	8/5/2009	308	845	<0.001	<0.001	<0.001	<0.003	25.2	Clear No odor
1	80.98	126.5	29.6	150	11/23/2009	1,080	2,340	<0.001	<0.001	<0.001	<0.003	34.2	Clear No odor
1	81.11	126.51	29.5	150	2/9/2010	1,160	2,240	<0.001	<0.001	<0.001	<0.003	54.6	Clear No odor
1	81.29	126.51	29.4	150	5/28/2010	510	1,190	<0.001	<0.001	<0.001	<0.003	29	Clear No odor
1	81.33	126.51	29.4	150	7/27/2010	710	1,500	<0.001	<0.001	<0.001	<0.003	40.8	Clear No odor
1	81.4	126.51	29.3	250	10/27/2010	76	454	<0.001	<0.001	<0.001	<0.003	17.6	Clear No odor
1	81.53	126.51	29.2	250	2/20/2011	68	365	<0.001	<0.001	<0.001	<0.003	17.2	Clear No odor
1	81.66	126.51	29.2	400	6/3/2011	240	707	<0.001	<0.001	<0.001	<0.003	45.9	Clear No odor
1	81.74	126.51	29.1	400	9/1/2011	308	825	<0.001	<0.001	<0.001	<0.003	56.6	Clear No odor
1	81.78	126.51	29.1	400	12/12/2011	52	395	<0.001	<0.001	<0.001	<0.003	28.6	Clear No odor
1	81.9	126.51	29	500	2/23/2012	188	605	<0.001	<0.001	<0.001	<0.003	45.2	Clear No odor

1	81.82	126.51	29	500	5/30/2012	730	1,740	<0.001	<0.001	<0.001	<0.003	84.9	Clear No odor
1	81.85	126.51	29	500	8/23/2012	580	1,280	<0.001	<0.001	<0.001	<0.003	81.2	Clear No odor
1	81.89	126.51	29	500	11/19/2012	480	1,170	<0.001	<0.001	<0.001	<0.003	50.4	Clear No odor
1	81.96	126.51	29	500	2/13/2013	870	1,680	<0.001	<0.001	<0.001	<0.003	59.7	Clear No odor
1	82.03	126.51	28.9	500	5/29/2013	860	1,940	<0.001	<0.001	<0.001	<0.003	79.3	Clear No odor
1	82.1	126.51	28.9	500	9/6/2013	840	2,000	<0.001	<0.001	<0.001	<0.003	227	Clear No odor
1	82.18	126.51	28.8	500	11/14/2013	1,010	2,080	<0.001	<0.001	<0.001	<0.003	61.5	Clear No odor
1	82.28	126.51	28.7	500	3/7/2014	550	1,390	<0.001	<0.001	<0.001	<0.003	63.4	Clear No odor
1	82.29	126.51	28.7	500	6/4/2014	980	2,170	<0.001	<0.001	<0.001	<0.003	53.8	Clear No odor
1	82.46	126.51	28.6	500	8/20/2014	910	2,220	<0.001	<0.001	<0.001	<0.003	50.9	Clear No odor
1	82.16	126.51	28.8	250	12/5/2014	880	2,050	<0.001	<0.001	<0.001	<0.003	53.6	Clear No odor
1	82.33	126.51	28.7	250	3/5/2015	940	2,010	<0.001	<0.001	<0.001	<0.003	50.3	Clear No odor
1	XXX	126.51	XXX	Running	6/4/2015	540	1,360	<0.001	<0.001	<0.001	<0.003	55.5	Clear No odor
1	XXX	126.51	XXX	Running	8/21/2015	670	1,480	<0.001	<0.001	<0.001	<0.003	51	Clear No odor
1	XXX	126.51	0	200	11/13/2015	630	1,500	<0.001	<0.001	<0.001	<0.003	71.4	Clear No odor
1	XXX	126.51	XXX	200	3/14/2016	590	1,370	<0.001	<0.001	<0.001	<0.003	65.3	Clear No odor

1	XXX	126.51	XXX	200	5/25/2016	620	1,730	<0.001	<0.001	<0.001	<0.003	68.1	Clear No odor
1	XXX	126.51	XXX	Running	9/13/2016	460	1,140	<0.001	<0.001	<0.001	<0.003	71	Clear No odor
1	XXX	126.51	XXX	200	11/17/2016	580	1,370	<0.001	<0.001	<0.001	<0.003	63	Clear No odor
1	XXX	126.51	XXX	200	3/2/2017	380	1,230	<0.001	<0.001	<0.001	<0.003	143	Clear No odor
1	XXX	126.51	XXX	Running	6/1/2017	440	1,180	<0.001	<0.001	<0.001	<0.003	68	Clear No odor
1	XXX	126.51	XXX	Running	9/11/2017	820	2,110	<0.001	<0.001	<0.001	<0.003	97	Clear No odor
1	XXX	126.51	XXX	100	12/1/2017	840	1,740	<0.001	<0.001	<0.001	<0.003	81	Clear No odor
1	XXX	126.51	XXX	200	3/5/2018	870	1,870	<0.001	<0.001	<0.001	<0.003	96	Clear No odor
1	XXX	126.51	XXX	200	6/4/2018	480	1,200	<0.001	<0.001	<0.001	<0.003	69.4	Clear No odor
1	XXX	126.51	XXX	200	9/10/2018	1,180	2,310	<0.001	<0.001	<0.001	<0.003	82.7	Clear No odor
1	XXX	126.51	XXX	200	11/16/2018	580	1,120	<0.001	<0.001	<0.001	<0.003	57.2	Clear No odor
1	XXX	126.51	XXX	100	3/11/2019	770	1,610	<0.001	<0.001	<0.001	<0.003	57	Clear No odor
1	XXX	126.51	XXX	Running	5/31/2019	990	1,940	<0.001	<0.001	<0.001	<0.003	66	Clear No odor
1	XXX	126.51	XXX	Running	8/30/2019	720	1,740	<0.001	<0.001	<0.001	<0.003	66	Clear No odor
1	XXX	126.51	XXX	100	11/21/2019	1,060	1,900	<0.001	<0.001	<0.001	<0.003	66	Clear No odor
1	XXX	126.51	XXX	Running	3/9/2020	500	1,160	<0.001	<0.001	<0.001	<0.003	52.7	Clear No odor

1	XXX	126.51	XXX	Running	9/14/2020	660	1,770	XXX	XXX	XXX	XXX	51.1	Clear No odor
1	XXX	126.51	XXX	100	3/12/2021	500	1,170	XXX	XXX	XXX	XXX	43.9	Clear No odor
1	XXX	126.51	XXX	Running	6/14/2021	700	1,630	XXX	XXX	XXX	XXX	57.1	Clear No odor
1	XXX	126.51	XXX	Running	9/9/2021	550	1,300	XXX	XXX	XXX	XXX	75.4	Clear No odor
1	XXX	126.51	XXX	100	11/11/2021	500	1,160	XXX	XXX	XXX	XXX	73.7	Clear No odor
1	XXX	126.51	XXX	100	3/3/2022	352	1,220	XXX	XXX	XXX	XXX	62.5	Clear No odor
1	XXX	126.51	XXX	Running	6/14/2022	750	1,590	XXX	XXX	XXX	XXX	64.5	Clear No odor
1	XXX	126.51	XXX	Running	9/8/2022	550	1,220	XXX	XXX	XXX	XXX	63.6	Clear No odor
1	XXX	126.51	XXX	100	12/2/2022	610	1,360	XXX	XXX	XXX	XXX	48.7	Clear No odor
1	XXX	126.51	XXX	100	3/20/2023	670	1,340	XXX	XXX	XXX	XXX	67	Clear No odor
1	XXX	126.51	XXX	Running	6/8/2023	530	1,430	XXX	XXX	XXX	XXX	63.8	Clear No odor
1	XXX	126.51	XXX	Running	8/18/2023	600	1,410	XXX	XXX	XXX	XXX	65.7	Clear No odor
1	XXX	126.51	XXX	Running	10/11/2023	288	794	XXX	XXX	XXX	XXX	72	Clear No odor
1	XXX	126.51	XXX	100	3/13/2024	520	1,140	XXX	XXX	XXX	XXX	64.9	Clear No odor
1	XXX	126.51	XXX	Running	5/29/2024	550	1,370	XXX	XXX	XXX	XXX	74.2	Clear No odor
1	XXX	126.51	XXX	Running	8/15/2024	580	1,340	XXX	XXX	XXX	XXX	63.8	Clear No odor

1	XXX	126.51	XXX	Running	11/4/2024	436	1,150	XXX	XXX	XXX	XXX	65.8	Clear No odor
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MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate	Comments
2	81.99	95.05	2.1	10	6/4/2014	64	378	<0.001	<0.001	<0.001	<0.003	39.6	Clear No odor
2	82.13	95.05	2.1	10	8/20/2014	64	400	<0.001	<0.001	<0.001	<0.003	37.7	Clear No odor
2	81.74	95.05	2.1	10	12/5/2014	68	370	<0.001	<0.001	<0.001	<0.003	30.7	Clear No odor
2	81.93	95.05	2.1	10	3/5/2015	36	400	<0.001	<0.001	<0.001	<0.003	59.8	Clear No odor
2	82.14	95.05	2.1	10	6/4/2015	64	422	<0.001	<0.001	<0.001	<0.003	31.3	Clear No odor
2	82.29	95.05	2	10	8/21/2015	40	398	<0.001	<0.001	<0.001	<0.003	45.1	Clear No odor
2	82.28	95.05	2.04	10	11/13/2015	68	440	<0.001	<0.001	<0.001	<0.003	34.6	Clear No odor
2	82.36	95.05	2	10	3/14/2016	68	436	<0.001	<0.001	<0.001	<0.003	45.7	Clear No odor
2	82.37	95.05	2	10	5/25/2016	32	406	<0.001	<0.001	<0.001	<0.003	58.8	Clear No odor
2	82.4	95.05	2	10	9/13/2016	56	402	<0.001	<0.001	<0.001	<0.003	77	Clear No odor
2	82.46	95.05	2	10	11/17/2016	60	202	<0.001	<0.001	<0.001	<0.003	64	Clear No odor
2	82.62	95.05	2	10	3/2/2017	60	446	<0.001	<0.001	<0.001	<0.003	76	Clear No odor
2	82.71	95.05	2	10	6/1/2017	84	486	<0.001	<0.001	<0.001	<0.003	57	Clear No odor

2	82.87	95.05	1.9	10	9/11/2017	68	424	<0.001	<0.001	<0.001	<0.003	80	Clear No odor
2	82.83	95.05	2	10	12/1/2017	32	396	<0.001	<0.001	<0.001	<0.003	59	Clear No odor
2	82.94	95.05	1.9	10	3/5/2018	56	424	<0.001	<0.001	<0.001	<0.003	67.2	Clear No odor
2	82.96	95.05	1.9	10	6/4/2018	64	448	<0.001	<0.001	<0.001	<0.003	72.4	Clear No odor
2	83.1	95.05	1.9	8	9/10/2018	60	302	<0.001	<0.001	<0.001	<0.003	69.2	Clear No odor
2	83.35	95.05	1.9	10	11/16/2018	64	452	<0.001	<0.001	<0.001	<0.003	66.6	Clear No odor
2	83.5	95.05	1.8	10	3/11/2019	60	368	<0.001	<0.001	<0.001	<0.003	66	Clear No odor
2	83.57	95.05	1.8	10	5/31/2019	56	413	<0.001	<0.001	<0.001	<0.003	62	Clear No odor
2	83.62	95.05	1.8	10	8/30/2019	56	422	<0.001	<0.001	<0.001	<0.003	56	Clear No odor
2	83.66	95.05	1.8	10	11/21/2019	56	241	<0.001	<0.001	<0.001	<0.003	60	Clear No odor
2	83.68	95.05	1.8	10	3/9/2020	60	424	<0.001	<0.001	<0.001	<0.003	61.9	Clear No odor
2	83.8	95.05	1.8	10	9/14/2020	68	353	XXX	XXX	XXX	XXX	55.1	Clear No odor
2	84.29	95.05	1.7	10	3/12/2021	52	193	XXX	XXX	XXX	XXX	56.3	Clear No odor
2	84.33	95.05	1.7	10	6/14/2021	60	430	XXX	XXX	XXX	XXX	56.9	Clear No odor
2	84.37	95.05	1.7	10	9/9/2021	56	403	XXX	XXX	XXX	XXX	67.6	Clear No odor
2	84.4	95.05	1.7	10	11/11/2021	52	419	XXX	XXX	XXX	XXX	71.3	Clear No odor

2	84.26	95.05	1.7	10	3/3/2022	56	390	XXX	XXX	XXX	XXX	78.4	Clear No odor
2	84.78	95.05	1.6	10	6/14/2022	60	399	XXX	XXX	XXX	XXX	79.4	Clear No odor
2	84.87	95.05	1.6	10	9/8/2022	60	417	XXX	XXX	XXX	XXX	64.5	Clear No odor
2	84.98	95.05	1.6	10	12/2/2022	60	412	XXX	XXX	XXX	XXX	56.2	Clear No odor
2	84.94	95.05	1.6	6	3/20/2023	60	391	XXX	XXX	XXX	XXX	60.6	Clear No odor
2	85.13	95.05	1.6	6	6/8/2023	72	446	XXX	XXX	XXX	XXX	73.4	Clear No odor
2	85.22	95.05	1.6	6	8/18/2023	96	490	XXX	XXX	XXX	XXX	64.8	Clear No odor
2	85.38	95.05	1.5	6	10/11/2023	64	335	XXX	XXX	XXX	XXX	72.8	Clear No odor
2	85.37	95.05	1.5	6	3/13/2024	60	431	XXX	XXX	XXX	XXX	62.2	Clear No odor
2	85.47	95.05	1.5	6	5/29/2024	92	516	XXX	XXX	XXX	XXX	74.3	Clear No odor
2	85.61	95.05	1.5	6	8/15/2024	64	403	XXX	XXX	XXX	XXX	57.7	Clear No odor
2	85.63	95.05	1.5	6	11/4/2024	60	417	XXX	XXX	XXX	XXX	59.6	Clear No odor



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

March 22, 2024

KATIE JONES

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: VACUUM F-33 BOOT

Enclosed are the results of analyses for samples received by the laboratory on 03/18/24 8:58.

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 www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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.

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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

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: 03/18/2024
Reported: 03/22/2024
Project Name: VACUUM F-33 BOOT
Project Number: NOT GIVEN
Project Location: T17S-R35E-SEC33 F - LEA CTY, NM

Sampling Date: 03/13/2024
Sampling Type: Water
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: MONITOR WELL #1 (H241372-01)

Chloride, SM4500Cl-B (Water)		mg/L	Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride*	520	4.00	03/19/2024	ND	104	104	100	0.00		
Sulfate 375.4		mg/L	Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Sulfate*	64.9	10.0	03/18/2024	ND	16.9	84.6	20.0	13.5		
TDS 160.1		mg/L	Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS*	1140	5.00	03/21/2024	ND	804	80.4	1000	8.08		

Sample ID: MONITOR WELL #2 (H241372-02)

Chloride, SM4500Cl-B		mg/L	Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride*	60.0	4.00	03/19/2024	ND	104	104	100	0.00		
Sulfate 375.4		mg/L	Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Sulfate*	62.2	10.0	03/18/2024	ND	16.9	84.6	20.0	13.5		
TDS 160.1		mg/L	Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS*	431	5.00	03/21/2024	ND	804	80.4	1000	8.08		

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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
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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A handwritten signature in black ink, appearing to read "Celey D. Keene", written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager

Cardinal Laboratories, Inc.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID #

ANALYSIS REQUEST

(Circle or Specify Method No.)

[illegible]

Relinquished by: Rozanne Johnson	Date: 3/18/2024	Time: 7:00	Received by: <i>[Signature]</i>	Date: 3/18/2024	Time: 7:00
Relinquished by: <i>[Signature]</i>	Date: 3/18/2024	Time:	Received By: (Laboratory Staff) <i>[Signature]</i>	Date: 3-18-24	Time: 5:55
Delivered By: (Circle One) UPS	Sampler - UPS - Bus - Other:		Sample Condition Cool: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		CHECKED BY: <i>[Signature]</i> (Initials): <i>[Signature]</i>

Phone Results	Yes	No
Fax Results	Yes	No Additional Fax Number:

REMARKS:

Email Results: kjones@riceswd.com
rozanne@sdacres.com

Page 4 of 4

Turn Around Time ~ 24 Hours



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

June 10, 2024

KATIE JONES

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: VACUUM F-33 BOOT

Enclosed are the results of analyses for samples received by the laboratory on 06/03/24 9:05.

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 www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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.

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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

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:	06/03/2024	Sampling Date:	05/29/2024
Reported:	06/10/2024	Sampling Type:	Water
Project Name:	VACUUM F-33 BOOT	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Alyssa Parras
Project Location:	T17S-R35E-SEC33 F - LEA CTY, NM		

Sample ID: MONITOR WELL #1 (H243106-01)

Chloride, SM4500Cl-B (Water)		mg/L		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride*	550	4.00	06/05/2024	ND	100	100	100	3.92		
Sulfate 375.4		mg/L		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Sulfate*	74.2	10.0	06/05/2024	ND	18.5	92.4	20.0	1.09		
TDS 160.1		mg/L		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS*	1370	5.00	06/07/2024	ND	805	80.5	1000	0.317		

Sample ID: MONITOR WELL #2 (H243106-02)

Chloride, SM4500Cl-B (Water)		mg/L		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride*	92.0	4.00	06/05/2024	ND	100	100	100	3.92		
Sulfate 375.4		mg/L		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Sulfate*	74.3	10.0	06/05/2024	ND	18.5	92.4	20.0	1.09		
TDS 160.1		mg/L		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS*	516	5.00	06/07/2024	ND	805	80.5	1000	0.317		

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

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

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*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

Cardinal Laboratories, Inc.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # _____

Company Name: RICE Operating Company		BILL TO Company: RICE Operating Company		PO#	
Project Manager: Katie Jones		Address: (Street, City, Zip) 122 W Taylor Street ~ Hobbs, New Mexico 88240			
Address: (Street, City, Zip) 122 W Taylor Street ~ Hobbs, New Mexico 88240		Phone#: (575) 393-9174		Fax#: (575)397-1471	
Phone #: (575) 393-9174		Fax #: (575) 397-1471			

ANALYSIS REQUEST

(Circle or Specify Method No.)

Project #: Project Name: Vacuum F-33 Boot
Project Location: T17S-R35E-Sec33 F ~ Lea County New Mexico
Sampler Signature: Rozanne Johnson (575) 631-9310

Sampler Signature: Rozanne Johnson (575) 631-9310

[illegible]

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/200.7

TCLP Metals Ag As Ba Cd Cr Pb Se Hg

TCLP Volatiles

TCLP Semi Volatiles

TCLP Pesticides

RCI

GC/MS Vol. 8260B/624

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 Dis

1000

Chlorides

Turn Around Time ~ 24 Hours

Relinquished by: Lozanne Johnson Date: 4/3/84 Time: 7:30

Received by:  Date: 6/3/24 Time: 7:30

Relinquished by: [Signature] Date: 6/3/24 Time:

Received By: (Laboratory Staff) Date: Time:

Delivered By: (Circle One)

Sample Condition	
------------------	--

CHECKED BY:

Sampler - UPS - Bus - Other:

	Cool	Intact
Yes	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
No	<input type="checkbox"/>	<input type="checkbox"/>

(Initials)

Phone Results	Yes	No
Fax Results	Yes	No Additional Fax Number:

REMARKS:

Email Results: kjones@riceswd.com
rozanne@sdacres.com



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

August 27, 2024

KATIE JONES

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: VACUUM F-33 BOOT

Enclosed are the results of analyses for samples received by the laboratory on 08/15/24 14:24.

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 www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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.

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,

A handwritten signature in black ink that reads "Celey D. Keene".

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:	08/15/2024	Sampling Date:	08/15/2024
Reported:	08/27/2024	Sampling Type:	Water
Project Name:	VACUUM F-33 BOOT	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Alyssa Parras
Project Location:	T17S-R35E-SEC33 F - LEA CTY, NM		

Sample ID: MONITOR WELL #1 (H244967-01)

Chloride, SM4500Cl-B (Water)		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride*	580	4.00	08/16/2024	ND	108	108	100	3.77		
Sulfate 375.4		mg/L		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Sulfate*	63.8	10.0	08/27/2024	ND	21.6	108	20.0	0.922		
TDS 160.1		mg/L		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS*	1340	5.00	08/21/2024	9.00	525	105	500	1.20		

Sample ID: MONITOR WELL #2 (H244967-02)

Chloride, SM4500Cl-B (Water)		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride*	64.0	4.00	08/16/2024	ND	108	108	100	3.77		
Sulfate 375.4		mg/L		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Sulfate*	57.7	10.0	08/27/2024	ND	21.6	108	20.0	0.922		
TDS 160.1		mg/L		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS*	403	5.00	08/21/2024	9.00	525	105	500	1.20		

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

Cardinal Laboratories, Inc.

Company Name: RICE Operating Company		BILL TO Company: RICE Operating Company		PO#
Project Manager: Katie Jones		Address: (Street, City, Zip)		
Address: (Street, City, Zip)		122 W Taylor Street ~ Hobbs, New Mexico 88240		
122 W Taylor Street ~ Hobbs, New Mexico 88240		Phone#:		Fax#:
Phone #:		(575) 393-9174		(575)397-1471
(575) 393-9174		Fax #:		
Project #:		(575) 397-1471		
Project Name:		Vacuum F-33 Boot		
Project Location:		Sampler Signature: Rozanne Johnson (575)631-9310		
T17S-R35E-Sec33 F ~ Lea County New Mexico				

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # _____

ANALYSIS REQUEST
(Circle or Specify Method No.)

[illegible]

Relinquished by: <u>Janet Johnson</u>	Date: <u>8/15/2024</u>	Time: <u>13:00</u>	Received by: <u>Janet Johnson</u>	Date: <u>8/15/2024</u>	Time: <u>13:00</u>
Inquired by: <u>Janet Johnson</u>	Date: <u>8/15/2024</u>	Time: <u>13:00</u>	Received By: (Laboratory Staff) <u>Adams</u>	Date: <u>8-15-24</u>	Time: <u>1424</u>
Delivered By: (Circle One)			Sample Condition	CHECKED BY: <u>AD</u>	
Temper - UPS - Bus - Other: <u>UPS</u>			Cool <input checked="" type="checkbox"/> Yes No <input type="checkbox"/> No	Intact <input checked="" type="checkbox"/> Yes No <input type="checkbox"/> No	

Phone Results	Yes	No
Fax Results	Yes	No Additional Fax Number:

REMARKS:

Email Results: kjones@riceswd.com
rozanne@sdacres.com



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

November 14, 2024

KATIE JONES

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: VACUUM F-33 BOOT

Enclosed are the results of analyses for samples received by the laboratory on 11/07/24 15:27.

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 www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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.

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,

A handwritten signature in black ink that reads "Celey D. Keene".

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: 11/07/2024
Reported: 11/14/2024
Project Name: VACUUM F-33 BOOT
Project Number: NOT GIVEN
Project Location: T17S-R35E-SEC33 F - LEA CTY, NM

Sampling Date: 11/04/2024
Sampling Type: Water
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: MONITOR WELL #1 (H246819-01)

Chloride, SM4500Cl-B (Water)		mg/L		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride*	436	4.00	11/11/2024	ND	112	112	100	3.64		
Sulfate 375.4		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Sulfate*	65.8	10.0	11/11/2024	ND	16.6	83.0	20.0	9.85		
TDS 160.1		mg/L		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS*	1150	5.00	11/12/2024	ND	829	82.9	1000	1.85		

Sample ID: MONITOR WELL #2 (H246819-02)

Chloride, SM4500Cl-B (Water)		mg/L		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride*	60.0	4.00	11/11/2024	ND	112	112	100	3.64		
Sulfate 375.4		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Sulfate*	59.6	10.0	11/11/2024	ND	16.6	83.0	20.0	9.85		
TDS 160.1		mg/L		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS*	417	5.00	11/12/2024	ND	829	82.9	1000	1.85		

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*=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. Keene, Lab Director/Quality Manager



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

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

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.

A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

Cardinal Laboratories, Inc.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID #

ANALYSIS REQUEST
(Circle or Specify Method No.)[illegible]

Relinquished by: <u>Rozanne Johnson</u> Date: <u>11/7/2024</u> Time: <u>8:00</u>	Received by: <u>[Signature]</u> Date: <u>11/7/2024</u> Time: <u>8:00</u>
Relinquished by: <u>[Signature]</u> Date: <u>11/7/2024</u> Time: <u></u>	Received By: (Laboratory Staff) <u>[Signature]</u> Date: <u>11-7-24</u> Time: <u>1527</u>
Delivered By: (Circle One) <u>UPS</u>	Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/>
Sampler - UPS - Bus - Other: <u></u>	CHECKED BY: (Initials) <u>AD</u>

Phone Results	Yes	No
Fax Results	Yes	No Additional Fax Number:

REMARKS:

Email Results: kjones@riceswd.com
rozanne@sdacres.com

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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 447141

CONDITIONS

Operator: RICE OPERATING COMPANY PO Box 5630 Hobbs, NM 88241	OGRID: 19174
	Action Number: 447141
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Report accepted for record.	7/7/2025
amaxwell	Continue groundwater recovery and quarterly monitoring well sampling in 2025.	7/7/2025
amaxwell	Submit a C-141N for all future monitoring and sampling events.	7/7/2025