RICE Operating Company

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

REVIEWED

By Nelson Velez at 1:01 pm, Dec 16, 2022

Review of 2021 Annual Groundwater Report: **Content** satisfactory

- 1. Continue sampling on a semi-annual schedule at a minimum
- 2. Submit next annual report to OCD no later than March 31,2023.

April 1, 2022

Bradford Billings

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

RE: 2021 Annual Groundwater Report Rice Operating Company – BD SWD System BD J-30 vent (1R426-217): UL/J, Sec. 30, T21S, R37E

Mr. Billings:

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 2.3 miles northwest of Eunice, New Mexico at UL/J, Sec. 30, T21S, R37E as shown on the Geographical Location Map. Groundwater sampling at the site indicated the depth to groundwater is approximately 106 feet below ground surface (bgs).

In 2007, ROC initiated work on the former J-30 vent junction box. The site was delineated using a backhoe to form a 30x30x12-ft deep excavation and soil samples were screened at regular intervals for both hydrocarbon and chloride. The excavated soil was blended on site and representative samples were collected from the excavation walls and excavation bottom and sent to a commercial laboratory for analysis, resulting in elevated chloride concentrations and low hydrocarbon concentrations. The excavation was backfilled with the blended soil to 6 ft below ground surface (bgs). At 6-5 ft bgs, a 1 ft thick clay barrier was installed. The remaining backfill was blended with clean, imported soil and used to backfill the remainder of the excavation to ground surface and contoured to the surrounding area. On March 16th, 2007, the site was seeded with a blend of native vegetation. To further investigate the presence of chloride, two soil bores were drilled on April 18th, 2007. Soil samples were collected at regular intervals and field titrated for chlorides. Representative samples from each bore were sent to a commercial laboratory resulting in elevated chloride concentrations. Each bore hole was plugged with bentonite to ground surface. NMOCD was notified of potential groundwater impact on August 5th, 2008. A junction box disclosure report was submitted to NMOCD with all the 2009 junction box closures and disclosures.

An Investigation and Characterization Plan (ICP) was submitted to NMOCD on February 17th, 2015 and approved on February 20th, 2015. According to the ICP, nine soil bores were drilled to further delineate the vadose zone. Representative samples were collected from each bore and were sent to a commercial laboratory for analysis of chloride and hydrocarbon, resulting in elevated chloride concentrations. Each soil bore was plugged with bentonite to ground surface.

A Corrective Action Plan (CAP) was submitted and approved by NMOCD on August 12th, 2015. According to the NMOCD approved CAP, a 20-mil reinforced liner measuring 84x91-ft 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 NMOCD on August 24th, 2017. The report also requested monitoring wells installation. NMOCD approved this report and granted 'Soil Closure' on August 24th, 2017.

On December 11-12th, 2018, ROC installed two monitor wells. MW-3 was installed downgradient well and MW-1 was installed as a near-source monitoring well. On April 26th, 2019, an up-gradient monitor well (MW-2) was installed. Lithology soil samples were collected from each well at regular intervals. The wells were developed and have been sampled regularly since installation. The most recent sampling event resulted in a chloride concentration of 1,440 mg/L in MW-1, 60 mg/L in MW-2, and 56 mg/L in MW-3. BTEX concentrations remained below detectable limits since the wells were installed. In 2020, ROC received NMOCD approval to cease BTEX sampling. On February 4th, 2022, NMOCD granted approval to cease sampling of MW-3, along with approval to cease sulfate sampling in all monitoring wells. ROC will suspend sulfate analysis and continue quarterly sampling in 2022.

Attached is the Appendix, which contains:

- 1. A Geographical Location Map.
- 2. A map showing well locations.
- 3. A table presenting all laboratory results and depth to groundwater for each well at the site, and a graph showing recent laboratory results.
- 4. The laboratory analytical results for 2021.

Rice Operating Company appreciates the opportunity to work with you on this project. Please contact me at (575) 393-9174 or Edward Hansen at (505) 920-4965 if you have any questions or wish to further discuss this site. Thank you for your time and consideration.

Sincerely,

Katie Davis

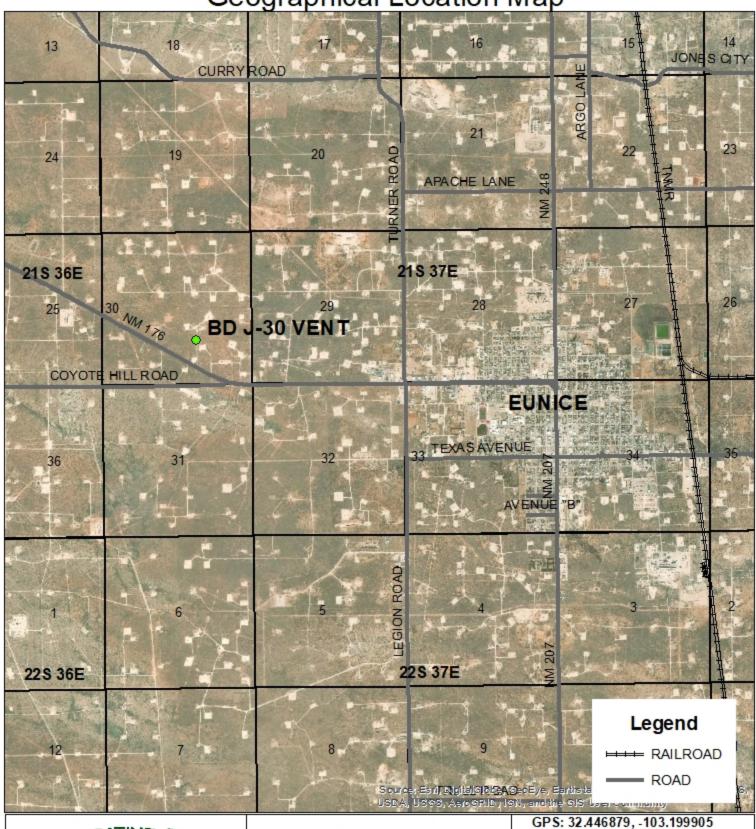
Environmental Manager

Katy Davis

RICE Operating Company (ROC)

Cc – Edward J. Hansen (ROC) appendix

Geographical Location Map

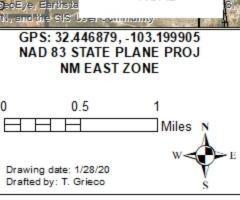




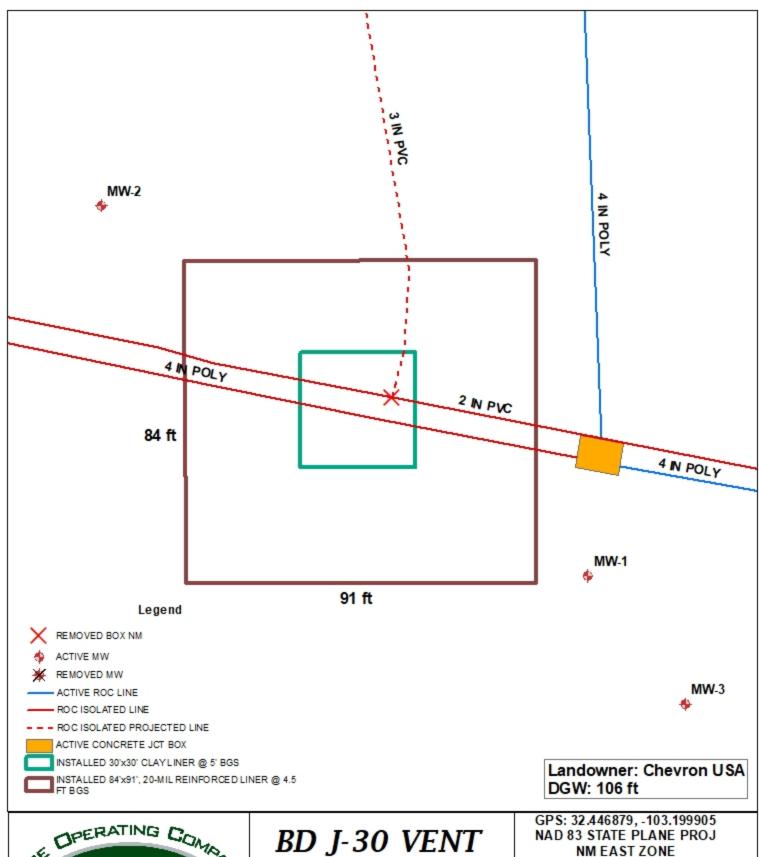
BD J-30 VENT

1R426-217

LEGALS: UL J SECTION 30 T-21-S R-37-E LEA COUNTY, NM



Site Map





1R426-217

LEGALS: UL J SECTION 30 T-21-S R-37-E LEA COUNTY, NM

10 20 HHHFeet

Drawing date: 2/3/20 Drafted by: T. Grieco



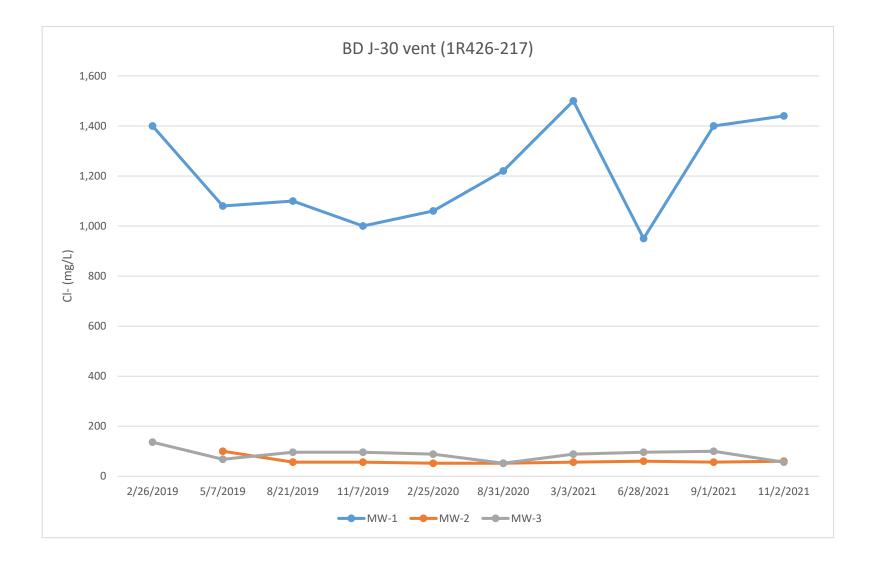
ROC - BD J-30 vent (1R426-217) Unit Letter J, Section 30, T21S, R37E

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate	Comments
1	106.38	141.6	23	75	12/26/2018	248	664	<0.001	<0.001	<0.001	<0.003	157	Clear No odor
1	106.51	141.6	23	75	2/26/2019	1,400	1,900	<0.001	<0.001	<0.001	<0.003	52	Clear No odor
1	106.5	141.6	23	75	5/7/2019	1,080	2,120	<0.001	<0.001	<0.001	<0.003	65	Clear No odor
1	106.5	141.6	23	75	8/21/2019	1,100	2,220	<0.001	<0.001	<0.001	<0.003	53	Clear No odor
1	106.54	141.6	23	75	11/7/2019	1,000	2,000	<0.001	<0.001	<0.001	<0.003	47	Clear No odor
1	106.47	141.6	22.8	75	2/25/2020	1,060	2,030	<0.001	<0.001	<0.001	<0.003	59	Clear No odor
1	106.47	141.6	22.8	75	8/31/2020	1,220	2,400	XXX	XXX	XXX	XXX	92	Clear No odor
1	106.44	141.6	23	75	3/3/2021	1,500	2,610	XXX	XXX	XXX	XXX	108	Clear No odor
1	106.48	141.6	23	75	6/28/2021	950	2,010	XXX	XXX	XXX	XXX	96.5	Clear No odor
1	106.45	141.6	23	75	9/1/2021	1,400	2,500	XXX	XXX	XXX	XXX	114	Clear No odor
1	106.46	141.6	23	75	11/2/2021	1,440	2,530	XXX	XXX	XXX	XXX	109	Clear No odor

MW	Depth to	Total	Well	Volume	Cample Date	Cl	TDC	Donzono	Taluana	Ethyl	Total	Culfata	Commonts
IVIVV	Water	Depth	Volume	Purged	Sample Date	Ci	TDS	Benzene	Toluene	Benzene	Xylenes	Sulfate	Comments
2	107.52	120.05	2	6	5/7/2019	100	459	<0.001	<0.001	<0.001	<0.003	91	Clear No odor
2	107.51	120.05	2	6	8/21/2019	56	400	<0.001	<0.001	<0.001	<0.003	74	Clear No odor
2	107.55	120.05	2	6	11/7/2019	56	411	<0.001	<0.001	<0.001	<0.003	69	Clear No odor
2	107.51	120.05	2	6	2/25/2020	52	454	<0.001	<0.001	<0.001	<0.003	81.8	Clear No odor
2	107.5	120.05	2	3	8/31/2020	52	457	XXX	XXX	XXX	XXX	76.7	Clear No odor
2	107.47	120.05	2	6	3/3/2021	56	440	XXX	XXX	XXX	XXX	88	Clear No odor
2	107.52	120.05	2	6	6/28/2021	60	474	XXX	XXX	XXX	XXX	91.9	Clear No odor
2	107.48	120.05	2	6	9/1/2021	56	459	XXX	XXX	XXX	XXX	91.2	Clear No odor
2	107.45	120.05	2	6	11/2/2021	60	407	XXX	XXX	XXX	XXX	89.1	Clear No odor

ROC - BD J-30 vent (1R426-217) Unit Letter J, Section 30, T21S, R37E

MW	Depth to	Total	Well	Volume	Sample Date	Cl	TDS	Benzene	Toluene	Ethyl	Total	Sulfate	Comments
	Water	Depth	Volume	Purged	'					Benzene	Xylenes		
3	106.38	110.38	0.6	3	12/27/2018	116	321	<0.001	<0.001	<0.001	<0.003	107	Clear No odor
3	106.38	110.38	0.6	3	2/26/2019	136	478	<0.001	<0.001	<0.001	<0.003	86	Clear No odor
3	106.38	110.38	0.6	3	5/7/2019	68	531	<0.001	<0.001	<0.001	<0.003	83	Clear No odor
3	106.37	110.38	0.6	3	8/21/2019	96	536	<0.001	<0.001	<0.001	<0.003	74	Clear No odor
3	106.41	110.38	0.6	3	11/7/2019	96	547	<0.001	<0.001	<0.001	<0.003	78	Clear No odor
3	106.34	110.3	0.6	3	2/25/2020	88	459	<0.001	<0.001	<0.001	<0.003	85.7	Clear No odor
3	106.33	110.3	0.6	3	8/31/2020	52	452	XXX	XXX	XXX	XXX	72.7	Clear No odor
3	106.3	110.38	0.6	3	3/3/2021	88	368	XXX	XXX	XXX	XXX	70.6	Clear No odor
3	106.35	110.38	0.6	3	6/28/2021	96	552	XXX	XXX	XXX	XXX	78.7	Clear No odor
3	106.32	110.38	0.6	3	9/1/2021	100	562	XXX	XXX	XXX	XXX	121	Clear No odor
3	106.3	110.38	0.6	3	11/2/2021	56	423	XXX	XXX	XXX	XXX	87.8	Clear No odor





March 11, 2021

KATIE JONES

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: BD J-30 VENT

Enclosed are the results of analyses for samples received by the laboratory on 03/09/21 16:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. 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/ga/lab_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)

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: 03/09/2021 Reported: 03/11/2021

Project Name: BD J-30 VENT Project Number: NONE GIVEN

Project Location: T21S-R37E-SEC30 J-LEA CTY., NM

Sampling Date: 03/03/2021

Sampling Type: Water
Sampling Condition: Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: MONITOR WELL #1 (H210567-01)

Chloride, SM4500CI-B	mg	/L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	1500	4.00	03/10/2021	ND	104	104	100	3.92	QM-07
Sulfate 375.4	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	108	25.0	03/10/2021	ND	22.3	111	20.0	17.3	
TDS 160.1	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	2610	5.00	03/11/2021	ND	576	115	500	1.25	

Sample ID: MONITOR WELL #2 (H210567-02)

Chloride, SM4500CI-B	mg,	/L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	56.0	4.00	03/10/2021	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*	88.0	25.0	03/10/2021	ND	22.3	111	20.0	17.3	
TDS 160.1	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	440	5.00	03/11/2021	ND	576	115	500	1.25	

Cardinal Laboratories *=Accredited Analyte

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Celeg & Freene



Analytical Results For:

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

Fax To: (575) 397-1471

Received: 03/09/2021 Sampling Date: 03/03/2021 Reported: 03/11/2021 Sampling Type: Water Project Name: BD J-30 VENT Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: T21S-R37E-SEC30 J-LEA CTY., NM

Sample ID: MONITOR WELL #3 (H210567-03)

Chloride, SM4500CI-B	mg	/L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	88.0	4.00	03/10/2021	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*	70.6	25.0	03/10/2021	ND	22.3	111	20.0	17.3	
TDS 160.1	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	368	5.00	03/11/2021	ND	576	115	500	1.25	

Cardinal Laboratories *=Accredited Analyte

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Celey D. Kreine



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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Celey D. Keine

Page 1 of 1

Released to Imaging: 12/16/2022



July 02, 2021

KATIE JONES

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: BD J-30 VENT

Enclosed are the results of analyses for samples received by the laboratory on 06/29/21 16:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. 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/ga/lab accred certif.html.

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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: 06/29/2021 Sampling Date: 06/28/2021
Reported: 07/02/2021 Sampling Type: Water

Project Name: BD J-30 VENT Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: T21S-R37E-SEC30 J-LEA CTY., NM

Sample ID: MONITOR WELL #1 (H211685-01)

Qualifier
Qualifier
Qualifier

Sample ID: MONITOR WELL #2 (H211685-02)

Chloride, SM4500CI-B	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	60.0	4.00	06/30/2021	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*	91.9	25.0	06/30/2021	ND	22.0	110	20.0	17.3	
TDS 160.1	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	474	5.00	07/02/2021	ND	520	104	500	1.65	

Cardinal Laboratories *=Accredited Analyte

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Celeg & Freene



Analytical Results For:

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

Fax To: (575) 397-1471

Received: 06/29/2021 Sampling Date: 06/28/2021 Reported: 07/02/2021 Sampling Type: Water Project Name: BD J-30 VENT Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: T21S-R37E-SEC30 J-LEA CTY., NM

Sample ID: MONITOR WELL #3 (H211685-03)

Chloride, SM4500CI-B	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	96.0	4.00	06/30/2021	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*	78.7	25.0	06/30/2021	ND	22.0	110	20.0	17.3	
TDS 160.1	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	552	5.00	07/02/2021	ND	520	104	500	1.65	

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Celey D. Kreine



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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September 13, 2021

KATIE JONES

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: BD J-30 VENT

Enclosed are the results of analyses for samples received by the laboratory on 09/07/21 15:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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/ga/lab 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: 09/07/2021

09/13/2021

Project Name: BD J-30 VENT
Project Number: NONE GIVEN

Project Location: T21S-R37E-SEC30 J-LEA CTY., NM

Sampling Date: 09/01/2021

Sampling Type: Water
Sampling Condition: Cool & Intact

Sample Received By: Tamara Oldaker

Sample ID: MONITOR WELL #1 (H212439-01)

Reported:

Chloride, SM4500CI-B	mg,	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	1400	4.00	09/08/2021	ND	104	104	100	0.00	
Sulfate 375.4	mg,	/L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	114	25.0	09/10/2021	ND	22.0	110	20.0	13.4	
TDS 160.1	mg,	/L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	2500	5.00	09/10/2021	ND	244	81.3	300	2.31	

Sample ID: MONITOR WELL #2 (H212439-02)

Chloride, SM4500CI-B	mg,	/L	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	56.0	4.00	09/08/2021	ND	104	104	100	3.92	
Sulfate 375.4	mg	/L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	91.2	25.0	09/10/2021	ND	22.0	110	20.0	13.4	
TDS 160.1	mg	/L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	459	5.00	09/10/2021	ND	244	81.3	300	2.31	

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: 09/07/2021 Sampling Date: 09/01/2021 Reported: 09/13/2021 Sampling Type: Water Project Name: BD J-30 VENT Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: T21S-R37E-SEC30 J-LEA CTY., NM

Sample ID: MONITOR WELL #3 (H212439-03)

Chloride, SM4500Cl-B	mg,	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	100	4.00	09/08/2021	ND	104	104	100	3.92	
Sulfate 375.4 mg/L		Analyze	d By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	121	25.0	09/10/2021	ND	22.0	110	20.0	13.4	
TDS 160.1	mg,	/L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	562	5.00	09/10/2021	ND	244	81.3	300	2.31	

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Celey D. Kreine



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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Celey D. Keene

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November 10, 2021

KATIE JONES

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: BD J-30 VENT

Enclosed are the results of analyses for samples received by the laboratory on 11/04/21 16:16.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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/ga/lab 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)

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: 11/04/2021 Sampling Date: 11/02/2021 Reported: 11/10/2021 Sampling Type: Water Project Name: BD J-30 VENT Sampling Condition: Cool & Intact Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: T21S-R37E-SEC30 J-LEA CTY., NM

Sample ID: MONITOR WELL #1 (H213140-01)

Chloride, SM4500CI-B	mg	/L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	1440	4.00	11/05/2021	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*	109	25.0	11/05/2021	ND	23.1	116	20.0	5.60	
TDS 160.1	mg	/L	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	2530	5.00	11/09/2021	ND	852	85.2	1000	1.96	

Sample ID: MONITOR WELL #2 (H213140-02)

Chloride, SM4500CI-B	mg	/L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	60.0	4.00	11/05/2021	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*	89.1	25.0	11/05/2021	ND	23.1	116	20.0	5.60	
TDS 160.1	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	407	5.00	11/09/2021	ND	852	85.2	1000	1.96	

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 whistoever 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



Analytical Results For:

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

. . .

Received: 11/04/2021 Sampling Date: 11/02/2021 Reported: 11/10/2021 Sampling Type: Water Project Name: BD J-30 VENT Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: T21S-R37E-SEC30 J-LEA CTY., NM

Sample ID: MONITOR WELL #3 (H213140-03)

Chloride, SM4500Cl-B	mg	/L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	56.0	4.00	11/05/2021	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*	87.8	25.0	11/05/2021	ND	23.1	116	20.0	5.60	
TDS 160.1	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	423	5.00	11/09/2021	ND	852	85.2	1000	1.96	

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

CONDITIONS

Action 90538

CONDITIONS

Operator:	OGRID:
RICE OPERATING COMPANY	19174
122 W Taylor	Action Number:
Hobbs, NM 88240	90538
	Action Type:
	[UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Review of 2021 Annual Groundwater Report: Content satisfactory 1. Continue sampling on a semi-annual schedule at a minimum 2. Submit next annual report to OCD no later than March 31,2023.	12/16/2022