RICE Operating Company

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

REVIEWED

By Mike Buchanan at 3:48 pm, Sep 18, 2024

April 1, 2024

Nelson Velez

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

on a quarterly prescribed for remaining con 2. Submit the

RE: 2023 Annual Groundwater Report

Rice Operating Company – BD SWD System

BD J-30 vent (1R426-217): UL/J, Sec. 30, T21S, R37E

NMOCD Incident ID: nAPP2109655452

Mr. Velez:

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.

Annual Groundwater
Report for the ROC-BD
SWD System BD J-30
vent (1R426-217):
content satisfactory
1. Continue sampling
on a quarterly basis as
prescribed for
remaining constituents.
2. Submit the 2024
annual report to OCD
by April 1, 2025

Review of the 2023

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 and MW-1 was installed as a near-source monitoring well. On April 26th, 2019, an upgradient 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 1,280 mg/L in MW-1, 60 mg/L in MW-2, and 80 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 continue quarterly sampling in 2024.

Attached is the Appendix, which contains:

- 1. A Geographical Location Map.
- 2. A map showing well locations and groundwater gradient.
- 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 2023.

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

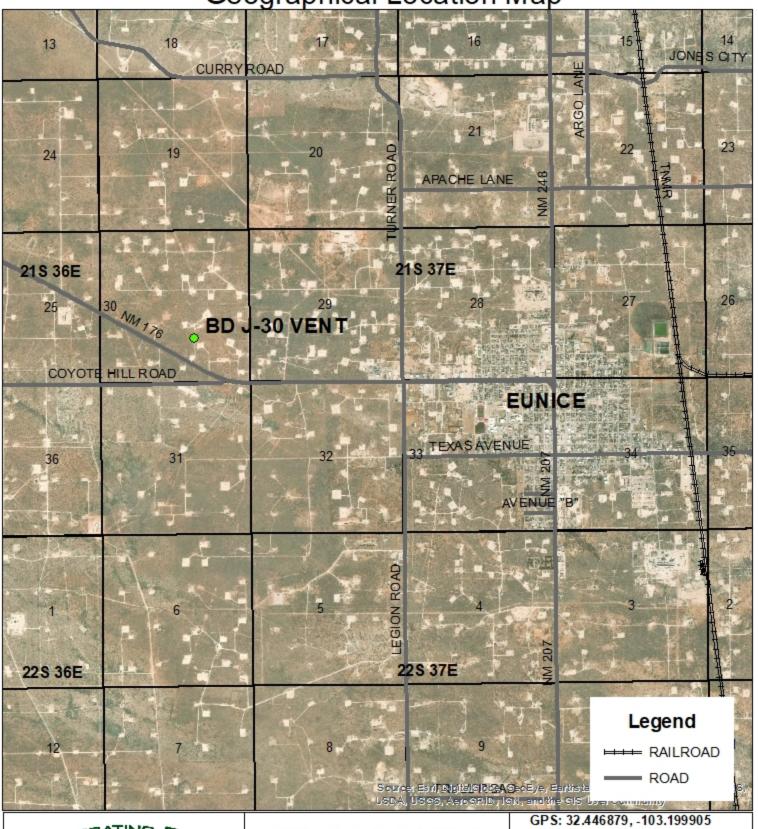
Environmental Manager

Katy Davis

RICE Operating Company (ROC)

appendix

Geographical Location Map

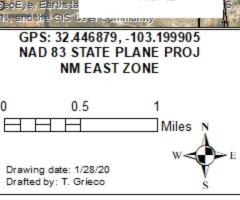


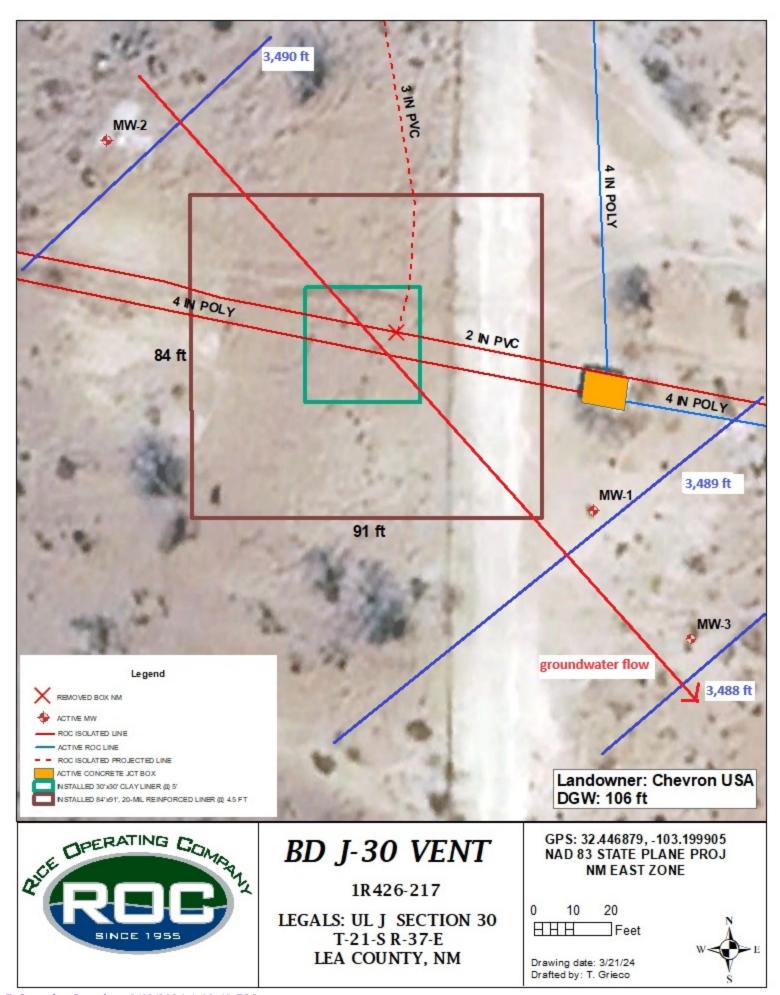


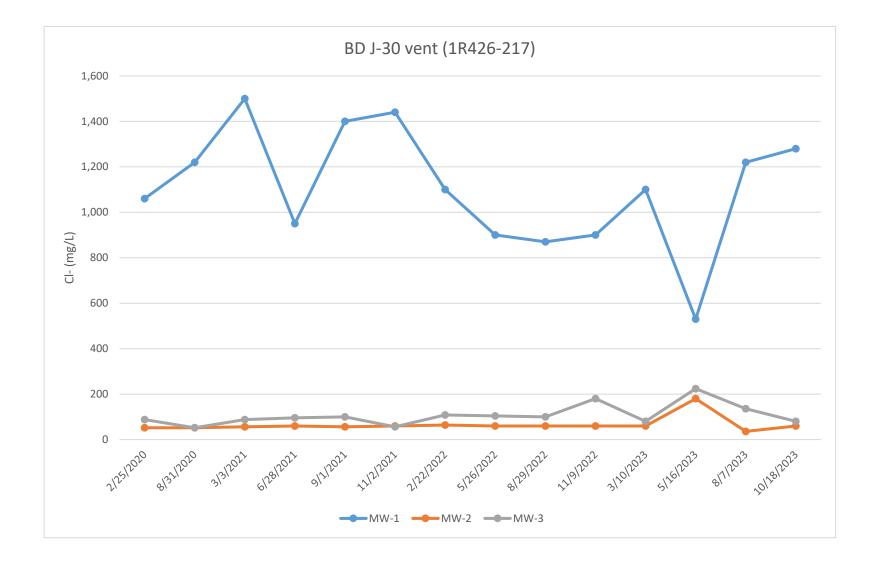
BD J-30 VENT

1R426-217

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







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
10100	Water	Depth	Volume	Purged	Sample Date	Ci	103	Delizerie	Toluctio	Benzene	Xylenes	Junate	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
1	106.43	141.6	23	75	2/22/2022	1,100	1,970	XXX	XXX	XXX	XXX	101	Clear No odor
1	106.42	141.6	23	75	5/26/2022	900	1,920	XXX	XXX	XXX	XXX	XXX	Clear No odor
1	106.41	141.6	23	75	8/29/2022	870	1,830	XXX	XXX	XXX	XXX	XXX	Clear No odor
1	106.42	141.6	23	75	11/9/2022	900	2,410	XXX	XXX	XXX	XXX	XXX	Clear No odor
1	106.41	141.6	22.9	75	3/10/2023	1,100	1,940	XXX	XXX	XXX	XXX	XXX	Clear No odor
1	106.4	141.6	22.9	75	5/17/2023	530	1,380	XXX	XXX	XXX	XXX	XXX	Clear No odor
1	106.4	141.6	22.9	75	8/7/2023	1,220	2,930	XXX	XXX	XXX	XXX	XXX	Clear No odor
1	106.41	141.6	22.9	75	10/18/2023	1,280	2,540	XXX	XXX	XXX	XXX	XXX	Clear No odor

MW	Depth to	Total	Well	Volume	Sample Date	Cl	TDS	Benzene	Toluene	Ethyl	Total	Sulfate	Comments
	Water	Depth	Volume	Purged						Benzene	Xylenes		
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

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
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
2	107.46	120.05	2	6	2/22/2022	64	459	XXX	XXX	XXX	XXX	78.6	Clear No odor
2	107.46	120.05	2	6	5/26/2022	60	461	XXX	XXX	XXX	XXX	XXX	Clear No odor
2	107.43	120.05	2	6	8/29/2022	60	464	XXX	XXX	XXX	XXX	XXX	Clear No odor
2	107.45	120.05	2	6	11/9/2022	60	473	XXX	XXX	XXX	XXX	XXX	Clear No odor
2	107.42	120.05	2	6	3/10/2023	60	377	XXX	XXX	XXX	XXX	XXX	Clear No odor
2	107.41	120.05	2	6	5/17/2023	180	625	XXX	XXX	XXX	XXX	XXX	Clear No odor
2	107.41	120.05	2	6	8/7/2023	36	395	XXX	XXX	XXX	XXX	XXX	Clear No odor
2	107.42	120.05	2	6	10/18/2023	60	455	XXX	XXX	XXX	XXX	XXX	Clear No odor

MW	Depth to	Total	Well	Volume	Sample Date	Cl	TDS	Benzene	Toluene	Ethyl	Total	Sulfate	Comments
	Water	Depth	Volume	Purged	oampio zato	<u>.</u>				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
3	106.3	110.38	0.6	3	2/22/2022	108	570	XXX	XXX	XXX	XXX	158	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	Sulfato	Comments
IVIVV	Water	Depth	Volume	Purged	Sample Date	Ci	103	belizelle	Toluelle	Benzene	Xylenes	Juliate	Comments
3	106.31	110.38	0.6	3	5/26/2022	104	532	XXX	XXX	XXX	XXX	XXX	Clear No odor
3	106.29	110.38	0.6	3	8/29/2022	100	502	XXX	XXX	XXX	XXX	XXX	Clear No odor
3	106.3	110.38	0.7	3	11/9/2022	180	818	XXX	XXX	XXX	XXX	XXX	Clear No odor
3	106.28	110.3	0.6	3	3/10/2023	80	513	XXX	XXX	XXX	XXX	XXX	Clear No odor
3	106.27	110.3	0.6	3	5/17/2023	224	846	XXX	XXX	XXX	XXX	XXX	Clear No odor
3	106.27	110.3	0.6	3	8/7/2023	136	525	XXX	XXX	XXX	XXX	XXX	Clear No odor
3	106.29	110.3	0.6	3	10/18/2023	80	516	XXX	XXX	XXX	XXX	XXX	Clear No odor



March 23, 2023

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 03/14/23 15:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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



03/10/2023

Water

Analytical Results For:

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

Fax To: (575) 397-1471

Received: 03/14/2023 Sampling Date:
Reported: 03/23/2023 Sampling Type:

Project Name:BD J-30 VENTSampling Condition:Cool & IntactProject Number:NONE GIVENSample Received By:Tamara Oldaker

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

Sample ID: MONITOR WELL #1 (H231168-01)

Chloride, SM4500CI-B	mg,	mg/L		d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	1100	4.00	03/15/2023	ND	104	104	100	3.92	
TDS 160.1	mg,	/L	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

Sample ID: MONITOR WELL #2 (H231168-02)

Chloride, SM4500Cl-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	03/15/2023	ND	104	104	100	3.92	
TDS 160.1	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	377	5.00	03/22/2023	ND	800	80.0	1000	0.377	

Sample ID: MONITOR WELL #3 (H231168-03)

Chloride, SM4500CI-B	mg/L		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	80.0	4.00	03/15/2023	ND	104	104	100	3.92	
TDS 160.1	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	513	5.00	03/22/2023	ND	800	80.0	1000	0.377	

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.

Celeg & Freene



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 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene

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101 East Marland - Hobbs, NM 88240	al Laboratorias Ir		CHAIN-OF-CUSTODY AND ANALYSIS REQUEST				
101 East Marland - Hobbs, NM 88240 Tel (575) 393-2326 Fax (575) 393-2476	al Laboratories, In	C.	CHAIN-OF-CUSTODY AND ANALYSIS REQUEST LAB Order ID # ANALYSIS REQUEST				
Company Name: RICE Operating Company Project Manager:	BILL TO Company: PO# RICE Operating Company Address: (Street, City, Zip		ANALYSIS REQUEST (Circle or Specify Method No.)				
Katie Jones	122 W Taylor Street ~ Hobbs, New Mexico 88240	,					
Address: (Street, City, Zip)	Phone#: Fax#:						
122 W Taylor Street ~ Hobbs, New Mexico 88240 Phone #: Fax		397-1471	3/200				
	75) 397-1471		(C35)				
Project #: Project Name:	///) pep H				
BD J-30 Vent Project Location:	Sampler Signature: Rozanne Johnson (75)631-9310					
T21S R37E Sec30 J~ Lea County New Mexico	TANK TO THE REAL PROPERTY OF THE PARTY OF TH						
1102 1110	MATRIX PRESERVATIVE METHOD	SAMPLING	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. TCLP Metals Ag As Ba Cd Cr Pb Se Hg TCLP Volatiles TCLP Semi Volatiles TCLP Pesticides RCI GC/MS Vol. 8260B/624				
H231168	8		MTBE 8021B/602 BTEX 8021B/602 TPH 418.1/TX1005 / TX PAH 8270C Total Metals Ag As Ba C TCLP Metals Ag As Ba C TCLP Volatiles TCLP Semi Volatiles TCLP Pesticides TCLP Pesticides GC/MS Vol. 8260B/624 GC/MS Semi. Vol. 8270 GC/MS Vol. 8260B/624 GC/MS Carlons (Ca, Mg, Na, Ma, Moisture Content Cations (Ca, Mg, Na, Mainns (Cl, SO4, CO3, Sulfates) Total Dissolved Solids Chlorides Turn Around Time ~ 22				
LAB # FIELD CODE (LAB USE ONLY)	# CONTAINERS WATER SOIL AIR SLUDGE SLUDGE HINO3 NAHSO4 H2SO4 ICE (1-1Liter HDPE) NONE	(53)	MTBE 8021B/602 BTEX 8021B/602 TPH 418.1/TX100 PAH 8270C Total Metals Ag As TCLP Metals Ag As TCLP Volatiles TCLP Semi Volatile TCLP Semi Vol. RCI GC/MS Vol. 82606 GC/MS Vol. 82606 GC/MS Vol. 82606 GC/MS Vol. 82606 GC/MS Content Cations (Ca, Mg, Anions (Cl, SO4, Anions (Cl, SO4, Sulfates) Total Dissolved S Chlorides Turn Around Time				
/ LAB USE	3 3 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	(20)	802 802 802 808 808 808 808 808 808 808				
ONLY)	# CONTAI WATER SOIL AIR SLUDGE HCL (2 40m) NaHSO ₄ H ₂ SO ₄ ICE (1-1Liter NONE	DATE (2023) TIME	MTBE 8021B/R BTEX 8021B/B TPH 418.1/TX PAH 8270C Total Metals Ag TCLP Metals A TCLP Volatiles TCLP Semi Vol TCLP Pesticide GC/MS Semi Vol TCLP Pesticide RCI GC/MS Semi Vol TCLP Pesticide RCI GC/MS Vol. 82 GC/MS Vol. 82 GC/MS Cont CG/MS Vol. 82 GC/MS Cont CG/MS Vol. 82 GC/MS Cont CG/MS (Ca, N Anions (Ca, N Anions (Ca, Cations (Cations				
Monitor Well #1							
Z Monitor Well #2			14:50 X X 9:45				
3 Monitor Well #3		3/10 11:35					
							
	 		┠╌┼╌┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼				
							
Relinquished by: Date: Time: Re-	eived by: Date: Time	1535	Phone Results Yes No				
Rozanne Johnson 3 14703 5:3	Sollara Malakak 3-1	4-23	Fax Results Yes No Additional Fax Number:				
	eived By: (Laboratory Staff) Date: Time		REMARKS:				
Delivered By: (Circle One) San			Email Results: kjones@riceswd.com				
Delivered By: (Circle One)	ple Condition CHECKED BY:		rozanne@sdacres.com				
	Yes V Yes (Initials)						
Sampler - UPS - Bus - Other:	No No V.		L				
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Page 1 of 1



May 26, 2023

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 05/18/23 16:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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



Analytical Results For:

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

Fax To: (575) 397-1471

Received: 05/18/2023 Sampling Date: 05/17/2023
Reported: 05/26/2023 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 (H232540-01)

Chloride, SM4500CI-B	mg,	mg/L		d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	1180	4.00	05/19/2023	ND	100	100	100	0.00	
TDS 160.1	mg,	mg/L		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*				ND	809	80.9	1000	1.74	

Sample ID: MONITOR WELL #2 (H232540-02)

Chloride, SM4500Cl-B	mg/L		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	56.0	4.00	05/19/2023	ND	100	100	100	0.00	
TDS 160.1	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	462	5.00	05/24/2023	ND	809	80.9	1000	1.74	

Sample ID: MONITOR WELL #3 (H232540-03)

Chloride, SM4500CI-B	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	112	4.00	05/19/2023	ND	100	100	100	0.00	
TDS 160.1	mg/L		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	555	5.00	05/24/2023	ND	809	80.9	1000	1.74	

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Celeg D. Keene



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

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Celeg D. Freene



August 15, 2023

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 08/09/23 13:51.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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



Analytical Results For:

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

Fax To: (575) 397-1471

Received: 08/09/2023 Sampling Date: 08/07/2023
Reported: 08/15/2023 Sampling Type: Water

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

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

Sample ID: MONITOR WELL #1 (H234264-01)

Chloride, SM4500Cl-B mg/L		Analyze	d By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	1220	4.00	08/10/2023	ND	100	100	100	0.00	
TDS 160.1	mg/L		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	2930	5.00	08/10/2023	ND	816	81.6	1000	12.4	

Sample ID: MONITOR WELL #2 (H234264-02)

Chloride, SM4500Cl-B	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	36.0	4.00	08/10/2023	ND	100	100	100	0.00	
TDS 160.1	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	395	5.00	08/10/2023	ND	816	81.6	1000	12.4	

Sample ID: MONITOR WELL #3 (H234264-03)

Chloride, SM4500CI-B	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	136	4.00	08/10/2023	ND	100	100	100	0.00	
TDS 160.1	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	525	5.00	08/15/2023	ND	816	81.6	1000	12.4	

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Celey D. Keene



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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Celey D. Keine

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October 30, 2023

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 10/19/23 16:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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)

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



Analytical Results For:

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

Fax To: (575) 397-1471

Received: 10/19/2023 Sampling Date: 10/18/2023
Reported: 10/30/2023 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 (H235741-01)

Chloride, SM4500Cl-B	mg	<u>/L</u>	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	1280	4.00	10/20/2023	ND	100	100	100	0.00	
TDS 160.1	mg	mg/L		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	2540	5.00	10/30/2023	ND	824	82.4	1000	1.30	

Sample ID: MONITOR WELL #2 (H235741-02)

Chloride, SM4500Cl-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	10/20/2023	ND	100	100	100	0.00	
TDS 160.1	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	455	5.00	10/30/2023	ND	824	82.4	1000	1.30	

Sample ID: MONITOR WELL #3 (H235741-03)

•	•	•							
Chloride, SM4500CI-B	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	80.0	4.00	10/20/2023	ND	100	100	100	0.00	
TDS 160.1	mg,	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	516	5.00	10/30/2023	ND	824	82.4	1000	1.30	

Cardinal Laboratories *=Accredited Analyte

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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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Celeg D. Freene

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 327833

CONDITIONS

Operator:	OGRID:
RICE OPERATING COMPANY	19174
122 W Taylor	Action Number:
Hobbs, NM 88240	327833
	Action Type:
	[UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By		Condition Date
michael.buchanan	Review of the 2023 Annual Groundwater Report for the ROC-BD SWD System BD J-30 vent (1R426-217): content satisfactory 1. Continue sampling on a quarterly basis as prescribed for remaining constituents. 2. Submit the 2024 annual report to OCD by April 1, 2025	9/18/2024