# RICE Operating Company

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

April 1, 2021

**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: 2020 Annual Groundwater Report Rice Operating Company – BD SWD System BD F-29 (1R426-16) and F-29-1 (1R426-15): UL/F, Sec. 29, 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 BD F-29 site is located 25 ft south from the BD F-29-1 site. These sites are located approximately 1.5 miles northwest of Eunice, New Mexico at UL/F, Sec. 29, T21S, R37E as shown on the Geographical Location Map and Area Map. Groundwater sampling at the site indicated the depth to groundwater is approximately 99 feet below ground surface (bgs).

## **BD F-29 Backhoe Delineation**

In 2003, ROC initiated work on the former BD F-29 junction box. The site was delineated using a backhoe to form a 25x10x14-ft deep excavation and soil samples were screened at regular intervals for both hydrocarbon and chloride. From the excavation, the four-wall composite and the bottom composite were taken to a commercial laboratory for analysis. Laboratory tests of the four-wall composite and the bottom composite resulted in elevated chloride concentrations. TPH concentrations were low and BTEX concentrations were below detectable limits. The site was backfilled, the area was contoured to the surrounding area, and an identification plate was placed on the surface of the site to mark its location for future environmental considerations. NMOCD was notified of potential groundwater impact on March 26<sup>th</sup>, 2003 and a junction box disclosure report was submitted to NMOCD with all the 2003 junction box closures and disclosures.

## **BD F-29-1 Backhoe Delineation**

In 2003, ROC initiated work on the former BD F-29-1 junction. The site was delineated using a backhoe to form a 20x10x6-ft deep excavation and soil samples were screened at regular intervals for both hydrocarbon and chloride. From the excavation, the bottom composite was

APPROVED

Review of 2020 Annual Groundwater

Report: Content satisfactory 1. Continue sampling on a semi-annual schedule at a minimum OCD pre-approves the 2. elimination of chloride, TDS, & sulfate from any further lab analysis in MW #2 3. OCD pre-approves the elimination of sulfate from any further lab analysis in MW #1 & MW #3 4. Submit summarized activities

4. Submit summarized activities completed and their results in a 2021 Annual Report. Submittal to OCD expected no later than March 31,2022. taken to a commercial laboratory for analysis. Laboratory testing on the bottom composite showed a chloride laboratory reading of 1,060 mg/kg, a GRO reading of non-detect and a DRO reading of 26.6 mg/kg. BTEX readings returned a result of non-detect. The site was backfilled, the area was contoured to the surrounding area, and an identification plate was placed on the surface of the site to mark its location for future environmental considerations. NMOCD was notified of potential groundwater impact on March 26<sup>th</sup>, 2003 and a junction box closure report was submitted to NMOCD with all the 2003 junction box closures and disclosures.

An Investigation and Characterization Plan (ICP) was submitted to NMOCD September 30<sup>th</sup>, 2013. According to the ICP, a total of 18 soil bores were drilled at the two sites. As the bores were advanced, soil samples were taken at regular intervals and field tested for chloride and hydrocarbon. Representative samples from each bore were taken to a commercial laboratory for analysis. The interior bores (SB 1-9, 11 and 14-16) located close to the former boxes, showed evidence of elevated chlorides throughout each bore. Although the laboratory chloride readings decrease with depth in each bore, the bottom samples at 95 ft bgs are still above 250 mg/kg. The most outer bores (SB 12, 13, 17 and SB-18) showed laboratory chloride readings that decrease to below 250 mg/kg before reaching the capillary fringe. GRO and DRO readings were non-detect in all bores at all depths.

According to a Corrective Action Plan (CAP) approved by the NMOCD on October 30<sup>th</sup>, 2013, ROC installed a 20-mil reinforced liner measuring 247x106-ft at a depth of 4.5 ft bgs. The liner extended 5 ft beyond the furthest soil bores and will provide a barrier that will inhibit the downward migration of chlorides to the groundwater. The soils placed above the liner had a laboratory chloride reading of 240 mg/kg and 320 mg/kg, and field PID readings of 0.4 ppm and 1.2 ppm. Upon completion of backfilling, the site was seeded with a native vegetative mix and soil amendments. A CAP Report and Soil Closure Request summarizing this work was submitted to NMOCD on July 23<sup>rd</sup>, 2014, and NMOCD granted Soil Closure on September 18<sup>th</sup>, 2014.

On November 13<sup>th</sup>, 2018, a near-source monitor well (MW-1) was installed approximately 70 ft southeast of the former junction boxes. On December 10<sup>th</sup>, 2018, an up-gradient well (MW-2) was installed approximately 133 ft northwest and a down-gradient well (MW-3) was installed approximately 170 ft southeast of the former junction boxes. These wells were developed and have been sampled regularly. The most recent sampling event resulted in a chloride concentration of 440 mg/L in MW-1, 104 mg/L in MW-2, and 240 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, and approval to temporarily reduce the sampling interval to semi-annual. ROC will begin quarterly sampling in 2021.

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 laboratory results.
- 4. The laboratory analytical results for 2020.

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,

Katil Davis

Katie Davis Environmental Manager RICE Operating Company (ROC)

Cc – Edward J. Hansen (ROC)

appendix

# Received by OCD: 4/13/2021 3:03:50 Geographical Location Map

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Received by OCD: 4/13/2021 3:03:50 PM

# Monitor Well Location



Released to Imaging: 2/4/2022 3:07:06 PM

## ROC - BD F-29 (1R426-16) & F-29-1 (1R426-15) Unit Letter F, Section 29, T21S, R37E

мw	Depth to	Total	Well	Volume	Sample Date	Cl	TDS	Benzene	Toluene	Ethyl	Total	Sulfate	Comments
1	Water 99.48	Depth 116.15	Volume 10.9	Purged 35	12/26/2018	484	1,300	<0.001	<0.001	Benzene <0.001	Xylenes <0.003	278	Clear No odor
1	99.48 99.45	116.15	10.9	35	2/25/2019		1,230	<0.001	<0.001	<0.001	<0.003	251	Clear No odor
1	99.43 99.44	116.15	10.9	35	5/6/2019	468	976	<0.001	<0.001	<0.001	<0.003	231	Clear No odor
1	99.42	116.15	10.9	35	8/20/2019		1,300	< 0.001	< 0.001	< 0.001	<0.003	211	Clear No odor
1	99.44	116.15	10.9	35	11/6/2019		1,200	<0.001	<0.001	<0.001	<0.003	208	Clear No odor
1	99.43	116.15	10.9	35	2/21/2020		1,140	<0.0005	<0.0005	<0.0005	<0.002	125	Clear No odor
1	99.4	116.15	10.9	35	8/28/2020	440	1,290	XXX	XXX	XXX	XXX	218	Clear No odor
									-	-		-	
MW	Depth to	Total	Well	Volume	Sample Date	Cl	TDS	Benzene	Toluene	Ethyl	Total	Sulfate	Comments
	Water	Depth	Volume	Purged	Sample Date	CI	103	Delizene	Toluelle	Benzene	Xylenes	Sunate	Comments
2	98.22	102.98	0.7	3	12/26/2018	120	550	<0.001	<0.001	<0.001	<0.003	153	Clear No odor
2	98.2	102.98	0.7	3	2/25/2019	128	470	<0.001	<0.001	<0.001	<0.003	134	Clear No odor
2	98.18	102.98	0.7	3	5/6/2019	116	616	< 0.001	< 0.001	<0.001	<0.003	116	Clear No odor
2	98.13	102.98	0.7	3	8/20/2019	120	570	<0.001	<0.001	<0.001	<0.003	119	Clear No odor
2	98.19	102.98	0.7	3	11/6/2019	116	596	<0.001	<0.001	<0.001	<0.003	121	Clear No odor
2	98.16	102.48	0.7	3	2/21/2020	108	538	<0.0005	<0.0005	<0.0005	<0.002	146	Clear No odor
2	98.14	102.48	0.7	3	8/28/2020	104	617	XXX	XXX	XXX	XXX	109	Clear No odor
					-								
MW	Depth to	Total	Well	Volume	Comula Data	C	TDC	Downone	Taluana	Ethyl	Total	Cultata	Commonto
	Water	Depth	Volume	Purged	Sample Date	Cl	TDS	Benzene	Toluene	Benzene	Xylenes	Sulfate	Comments
3	99.88	108.83	1.4	5	12/26/2018	292	978	<0.001	<0.001	<0.001	<0.003	298	Clear No odor
3	99.87	108.83	1.4	5	2/25/2019	276	991	<0.001	<0.001	<0.001	<0.003	245	Clear No odor
3	99.88	108.83	1.4	5	5/6/2019	264	936	< 0.001	<0.001	<0.001	<0.003	240	Clear No odor
3	99.9	108.83	1.4	5	8/20/2019	252	964	< 0.001	< 0.001	<0.001	<0.003	227	Clear No odor
3	100.03	108.83	1.4	3	11/6/2019	264	871	<0.001	<0.001	<0.001	<0.003	238	Clear No odor
3	99.99	108.83	1.4	3	2/21/2020	252	1,080	<0.0005	<0.0005	<0.0005	<0.002	242	Clear No odor
3	99.97	108.83	1.4	3	8/28/2020	240	1,080	XXX	XXX	XXX	XXX	219	Clear No odor





March 03, 2020

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

RE: BD JUNCTION F-29 & F-29-1

Enclosed are the results of analyses for samples received by the laboratory on 02/25/20 8:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/lab\_accred\_certif.html</a>.

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

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

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. Keine

Celey D. Keene Lab Director/Quality Manager



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

#### Analytical Results For:

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

Received:	02/25/2020	Sampling Date:	02/21/2020
Reported:	03/03/2020	Sampling Type:	Water
Project Name:	BD JUNCTION F-29 & F-29-1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	T21S R37E SEC 29 F ~ LEA COUNTY, №		

#### Sample ID: MONITOR WELL #1 (H000578-01)

BTEX 8260B	mg/	′L	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.0005	0.0005	02/29/2020	ND	0.019	92.8	0.0200	3.68	
Toluene*	<0.0005	0.0005	02/29/2020	ND	0.020	97.6	0.0200	6.84	
Ethylbenzene*	<0.0005	0.0005	02/29/2020	ND	0.021	103	0.0200	6.05	
Total Xylenes*	<0.002	0.002	02/29/2020	ND	0.065	108	0.0600	5.88	
Total BTEX	<0.003	0.003	02/29/2020	ND					
Surrogate: Dibromofluoromethane	% 89.2-11	2							
Surrogate: Toluene-d8	101 9	% 92-106	5						
Surrogate: 4-Bromofluorobenzene	93.5	% 80.4-12	24						
Chloride, SM4500Cl-B	mg/	′L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	416	4.00	02/26/2020	ND	96.0	96.0	100	4.08	
Sulfate 375.4	mg/	'L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	<b>125</b> 25.0		02/26/2020	ND	20.5	102	20.0	6.89	
TDS 160.1	mg/	'L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	1140	5.00	02/28/2020	ND	526	105	500	8.49	

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#### \*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### Analytical Results For:

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

Received:	02/25/2020	Sampling Date:	02/21/2020
Reported:	03/03/2020	Sampling Type:	Water
Project Name:	BD JUNCTION F-29 & F-29-1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	T21S R37E SEC 29 F ~ LEA COUNTY, №		

#### Sample ID: MONITOR WELL #2 (H000578-02)

BTEX 8260B	- mg/	۰ ۱	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.0005	0.0005	02/29/2020	ND	0.019	92.8	0.0200	3.68	
Toluene*	<0.0005	0.0005	02/29/2020	ND	0.020	97.6	0.0200	6.84	
Ethylbenzene*	<0.0005	0.0005	02/29/2020	ND	0.021	103	0.0200	6.05	
Total Xylenes*	<0.002	0.002	02/29/2020	ND	0.065	108	0.0600	5.88	
Total BTEX	<0.003	0.003	02/29/2020	ND					
Surrogate: Dibromofluoromethane	102 9	% 89.2-11	2						
Surrogate: Toluene-d8	103 9	% 92-100	5						
Surrogate: 4-Bromofluorobenzene	95.3	% 80.4-12	24						
Chloride, SM4500CI-B	mg/	′L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	108	4.00	02/26/2020	ND	96.0	96.0	100	4.08	
Sulfate 375.4	mg/	'L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	146	<b>146</b> 50.0		ND	20.5	102	20.0	6.89	
TDS 160.1	mg/	'L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	538	5.00	02/28/2020	ND	526	105	500	8.49	

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#### \*=Accredited Analyte

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### Analytical Results For:

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

Received:	02/25/2020	Sampling Date:	02/21/2020
Reported:	03/03/2020	Sampling Type:	Water
Project Name:	BD JUNCTION F-29 & F-29-1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	T21S R37E SEC 29 F ~ LEA COUNTY, №		

#### Sample ID: MONITOR WELL #3 (H000578-03)

BTEX 8260B	- mg/	۰ ۲	Analyze	d By: CK					
Analyte	Result Reporting Limit		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.0005	0.0005	02/29/2020	ND	0.019	92.8	0.0200	3.68	
Toluene*	<0.0005	0.0005	02/29/2020	ND	0.020	97.6	0.0200	6.84	
Ethylbenzene*	<0.0005	0.0005	02/29/2020	ND	0.021	103	0.0200	6.05	
Total Xylenes*	<0.002	0.002	02/29/2020	ND	0.065	108	0.0600	5.88	
Total BTEX	<0.003	0.003	02/29/2020	ND					
Surrogate: Dibromofluoromethane	103 9	89.2-11	2						
Surrogate: Toluene-d8	103 9	% 92-100	5						
Surrogate: 4-Bromofluorobenzene	95.2	% 80.4-12	24						
Chloride, SM4500CI-B	mg/	'L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	252	4.00	02/26/2020	ND	96.0	96.0	100	4.08	
Sulfate 375.4	mg/	′L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	242	50.0	02/26/2020	ND	20.5	102	20.0	6.89	
TDS 160.1	mg/	′L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	1080	5.00	02/28/2020	ND	526	105	500	8.49	

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



### **Notes and Definitions**

QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
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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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

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	Katie Jones			122 W	Taylo			lobbs,	New N				/																			
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	( LAB USE ONLY )		(G)rab or (C)omp	# CONTAINERS	WATER	SOIL	AIR	FUDGE	HCL (2 40ml VOA)	NaHSO4	H <sub>2</sub> SO <sub>4</sub>	ICE (1-1Liter HDPE) NONE	DATE (2020)	TIME	MTBE 8021B/602	BTEX 8021B/602	11PH 418.1/1.X1009 / 1.X1009 EXtended (C39) PAH 8270C	otal Meta	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	BOD, TSS, pH	Moisture Content	Cations (Ca, Mg, Na, K)	Anions (C Sulfates	Total Dissolved Solids	Chlorides	Turn Around Time ~ 24 Hours
	1	Monitor Well #1	G	3	X				2		十	1	2/21	1		X	-   a					E.	0	0		- 0	2		A O	1 1		-
	2	Monitor Well #2	G	3	X				2			1	2/21	10:15		X										T	$\square$	$\square$	X	X	X	
	3	Monitor Well #3	G	3	x				2		$\square$	1	2/21	11:40		x			П							T	$\Box$	П	x	x	X	
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September 08, 2020

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

RE: BD JUNCTION F-29 & F-29-1

Enclosed are the results of analyses for samples received by the laboratory on 09/01/20 15:30.

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 <a href="https://www.tceq.texas.gov/field/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/lab\_accred\_certif.html</a>.

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

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

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. Keine

Celey D. Keene Lab Director/Quality Manager



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

#### Analytical Results For:

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

Received:	09/01/2020	Sampling Date:	08/28/2020
Reported:	09/08/2020	Sampling Type:	Water
Project Name:	BD JUNCTION F-29 & F-29-1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	T21S R37E SEC 29 F ~ LEA COUNTY, №		

#### Sample ID: MONITOR WELL #1 (H002326-01)

Chloride, SM4500Cl-B	mg	/L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	440	4.00	09/02/2020	ND	100	100	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*	218	50.0	09/03/2020	ND	22.3	112	20.0	2.48	
TDS 160.1	mg,	/L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	1290	5.00	09/04/2020	ND	864	86.4	1000	5.66	

### Sample ID: MONITOR WELL #2 (H002326-02)

Chloride, SM4500Cl-B	mg,	/L	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	104	4.00	09/02/2020	ND	100	100	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	09/03/2020	ND	22.3	112	20.0	2.48	
TDS 160.1	mg,	/L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	617	5.00	09/04/2020	ND	864	86.4	1000	5.66	

#### **Cardinal Laboratories**

\*=Accredited Analyte

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Celeg D. Keine

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:	09/01/2020	Sampling Date:	08/28/2020
Reported:	09/08/2020	Sampling Type:	Water
Project Name:	BD JUNCTION F-29 & F-29-1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	T21S R37E SEC 29 F ~ LEA COUNTY, №		

#### Sample ID: MONITOR WELL #3 (H002326-03)

Chloride, SM4500Cl-B	mg	/L	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	240	4.00	09/02/2020	ND	100	100	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*	219	50.0	09/03/2020	ND	22.3	112	20.0	2.48	
TDS 160.1	mg	/L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	1080	5.00	09/04/2020	ND	832	83.2	1000	0.464	

**Cardinal Laboratories** 

\*=Accredited Analyte

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



### **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. Keine

Celey D. Keene, Lab Director/Quality Manager

Target String         Control Market         BiLL To         Company Market         BiLL To         Company Market         BiLL To         Company Market         Analysis           RICE Operating Company         RICE Operating Company </th <th>01 East Marland - Hobbs, NM 88240</th> <th>dina</th> <th>1 T</th> <th>ah</th> <th></th> <th><b>P</b>0</th> <th>10</th> <th></th> <th></th> <th></th> <th>Т</th> <th>10/</th> <th>•</th> <th></th> <th></th> <th></th> <th>СН</th> <th>AIN</th> <th>-OF</th> <th>-Cl</th> <th>JST</th> <th>OD</th> <th>Y</th> <th></th> <th>) Al</th> <th>NAL</th> <th></th> <th>age SIS I</th> <th>-</th> <th></th> <th>_</th> <th>_</th> <th>-</th>	01 East Marland - Hobbs, NM 88240	dina	1 T	ah		<b>P</b> 0	10				Т	10/	•				СН	AIN	-OF	-Cl	JST	OD	Y		) Al	NAL		age SIS I	-		_	_	-
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ampler - UPS - Bus - Other: No No	ampler - UPS - Bus - Other:		Yes No	<b>Y</b> e	s		-1	V	Unit	ials)																							

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

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

District III

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

District IV

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

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

CONDITIONS

Action 23946

CONDIT	IONS
Operator:	OGRID:
RICE OPERATING COMPANY	19174
122 W Taylor	Action Number:
Hobbs, NM 88240	23946
	Action Type:
	[UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

#### CONDITIONS

Created By	Condition	Condition Date
nvelez	Review of 2020 Annual Groundwater Report: Content satisfactory 1. Continue sampling on a semi-annual schedule at a minimum 2. OCD pre-approves the elimination of chloride, TDS, & sulfate from any further lab analysis in MW #2 3. OCD pre-approves the elimination of sulfate from any further lab analysis in MW #1 & MW #3 4. Submit summarized activities completed and their results in a 2021 Annual Report. Submittal to OCD expected no later than March 31,2022.	2/4/2022