NV

Accepted for the record 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 Jct. N-20 (1R426-215): UL/N, Sec. 20, 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 miles northwest of Eunice, New Mexico at UL/N, Sec. 20, T21S, R37E as shown on the Geographical Location Map. Groundwater sampling at the site indicated the depth to groundwater is approximately 99 feet below ground surface (bgs).

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

On May 14th, 2015, MW-1 was installed, and lithology soil samples were collected at regular intervals. The up-gradient well (MW-2) was installed November 15th, 2019 and the down-gradient well (MW-3) was installed on December 20th, 2019. The wells have been sampled regularly since installation. The most recent sampling event resulted in a chloride concentration of 4,450 mg/L in MW-1, 1,580 mg/L in MW-2, and 1,200 mg/L in MW-3. BTEX concentrations have remained below detectable limit in each well since installation. The samples collected from the up-gradient well (MW-2) suggests a non-ROC, up-gradient source has contributed to the degradation of groundwater quality. In 2020, ROC received NMOCD

approval to temporarily reduce the sampling interval to semi-annual. ROC will continue 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 recent 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

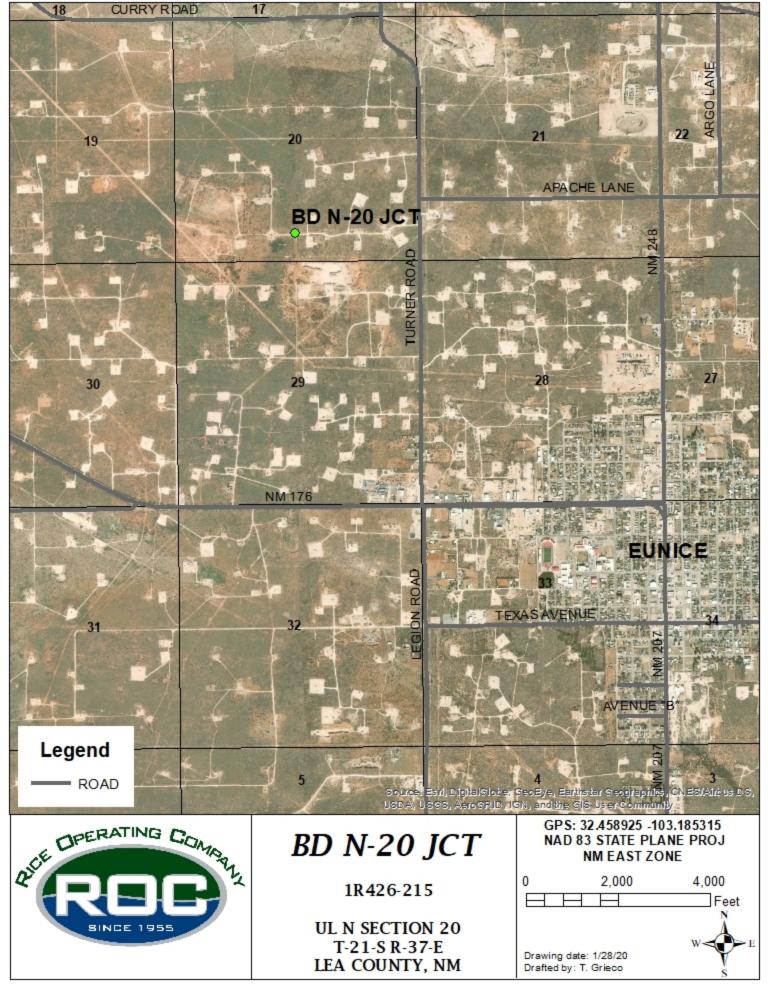
Katie Davis Environmental Manager RICE Operating Company (ROC)

Cc – Edward J. Hansen (ROC)

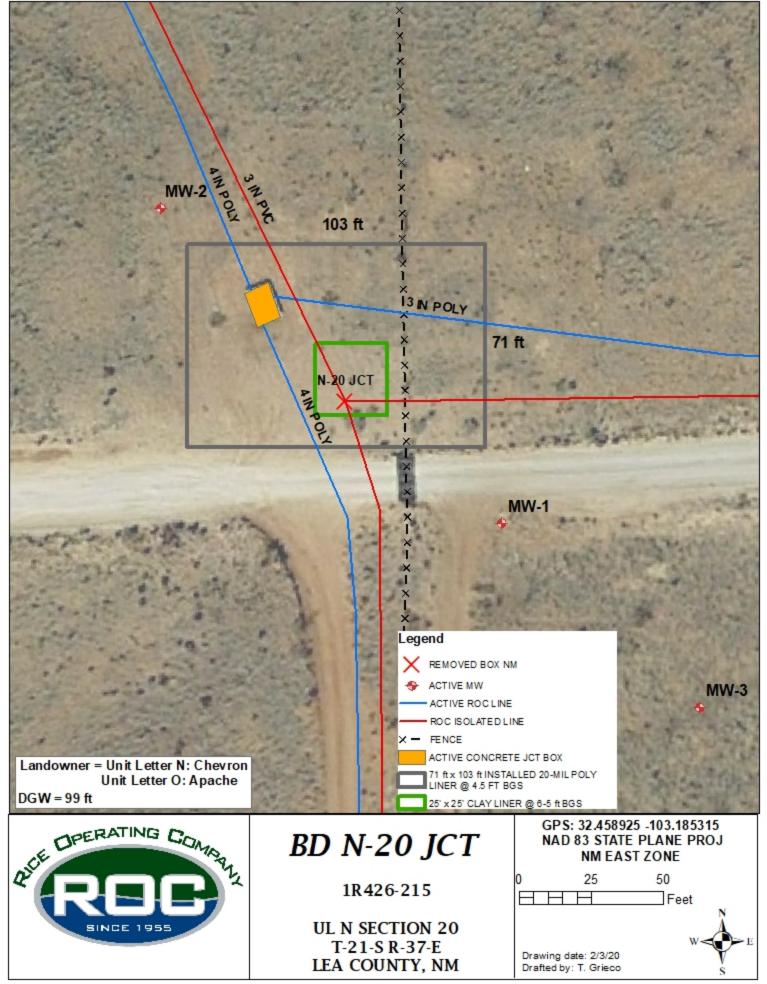
appendix

Received by OCD: 4/13/2021 3:27:00 Received by OCD: 4/13/2021 3:27:00 Received by OCD: 4/13/2021 3:27:00

Page 3 of 20



Released to Imaging: 10/5/2022 1:52:47 PM



Released to Imaging: 10/5/2022 1:52:47 PM

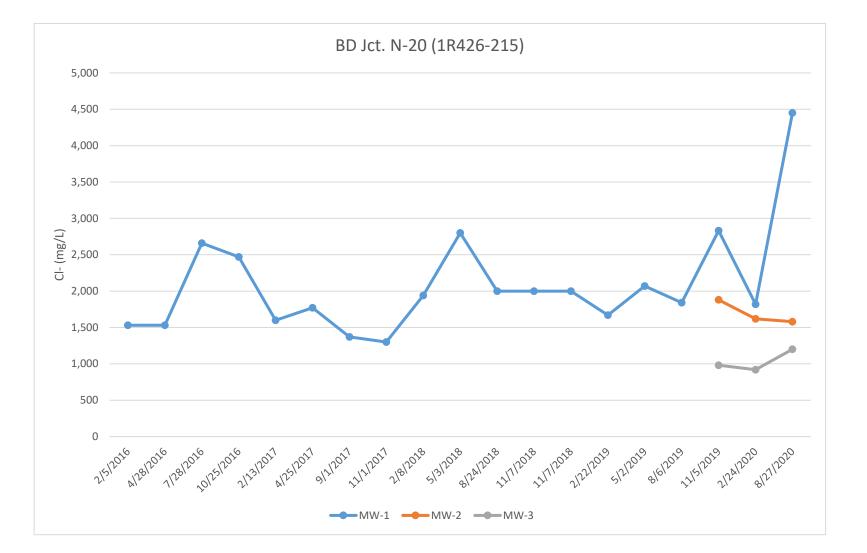
ROC - BD Jct. N-20 (1R426-215) Unit Letter N, Section 20, T21S, R37E

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

MW	Depth to	Total	Well	Volume	Sample Date	Cl	TDS	Benzene	Toluene	Ethyl	Total	Sulfate	Comments
	Water	Depth	Volume	Purged	•					Benzene	Xylenes		
2	99.96	116.4	2.6	10	12/23/2019	1,880	3,420	<0.001	<0.001	<0.001	<0.003	218	Clear No odor
2	99.92	116.4	2.6	10	2/24/2020	1,620	3,230	<0.001	<0.001	<0.001	<0.003	190	Clear No odor
2	99.98	116.4	2.6	10	8/27/2020	1,580	3,180	<0.001	<0.001	<0.001	<0.003	183	Clear No odor

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

MW	Depth to	Total	Well	Volume	Sample Date	Cl	TDS	Benzene	Toluene	Ethyl	Total	Sulfate	Comments
	Water	Depth	Volume	Purged	oampie zate	0.		201120110		Benzene	Xylenes	00.110.00	
3	99.12	116.35	2.8	10	12/23/2019	980	1,880	<0.001	<0.001	<0.001	<0.003	152	Clear No odor
3	99.08	116.35	2.8	10	2/24/2020	920	1,800	<0.001	<0.001	<0.001	<0.003	117	Clear No odor
3	99.1	116.35	2.8	10	8/27/2020	1,200	2,560	<0.001	<0.001	<0.001	<0.003	92.1	Clear No odor





March 05, 2020

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

RE: BD JUNCTION N-20

Enclosed are the results of analyses for samples received by the laboratory on 02/28/20 14:00.

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 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.

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:	02/28/2020	Sampling Date:	02/24/2020
Reported:	03/05/2020	Sampling Type:	Water
Project Name:	BD JUNCTION N-20	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	T21S R37E SEC20 N-LEA CTY., NM		

Sample ID: MONITOR WELL #1 (H000650-01)

BTEX 8021B	mg/	L	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.001	0.001	03/04/2020	ND	0.020	101	0.0200	1.22	
Toluene*	<0.001	0.001	03/04/2020	ND	0.020	98.5	0.0200	0.0915	
Ethylbenzene*	< 0.001	0.001	03/04/2020	ND	0.020	97.6	0.0200	0.937	
Total Xylenes*	<0.003	0.003	03/04/2020	ND	0.058	95.9	0.0600	1.18	
Total BTEX	<0.006	0.006	03/04/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 %	6 58.2-13	3						
Chloride, SM4500Cl-B	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	1820	4.00	03/02/2020	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*	113	25.0	03/02/2020	ND	20.5	103	20.0	0.342	
TDS 160.1	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	02/28/2020	Sampling Date:	02/24/2020
Reported:	03/05/2020	Sampling Type:	Water
Project Name:	BD JUNCTION N-20	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	T21S R37E SEC20 N-LEA CTY., NM		

Sample ID: MONITOR WELL #2 (H000650-02)

BTEX 8021B	mg/	L	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.001	0.001	03/04/2020	ND	0.020	101	0.0200	1.22	
Toluene*	<0.001	0.001	03/04/2020	ND	0.020	98.5	0.0200	0.0915	
Ethylbenzene*	< 0.001	0.001	03/04/2020	ND	0.020	97.6	0.0200	0.937	
Total Xylenes*	<0.003	0.003	03/04/2020	ND	0.058	95.9	0.0600	1.18	
Total BTEX	<0.006	0.006	03/04/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.2 9	58.2-13	3						
Chloride, SM4500Cl-B	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	1620	4.00	03/02/2020	ND	104	104	100	3.92	QM-07
Sulfate 375.4	mg/	L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	190	25.0	03/02/2020	ND	20.5	103	20.0	0.342	
TDS 160.1	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	3230	5.00	03/03/2020	ND	526	105	500	8.49	

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	02/28/2020	Sampling Date:	02/24/2020
Reported:	03/05/2020	Sampling Type:	Water
Project Name:	BD JUNCTION N-20	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	T21S R37E SEC20 N-LEA CTY., NM		

Sample ID: MONITOR WELL #3 (H000650-03)

BTEX 8021B	mg/	L	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	03/04/2020	ND	0.020	101	0.0200	1.22	
Toluene*	<0.001	0.001	03/04/2020	ND	0.020	98.5	0.0200	0.0915	
Ethylbenzene*	<0.001	0.001	03/04/2020	ND	0.020	97.6	0.0200	0.937	
Total Xylenes*	<0.003	0.003	03/04/2020	ND	0.058	95.9	0.0600	1.18	
Total BTEX	<0.006	0.006	03/04/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	58.2-13	3						
Chloride, SM4500Cl-B	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	920	4.00	03/02/2020	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*	117	25.0	03/02/2020	ND	20.5	103	20.0	0.342	
TDS 160.1	mg/	L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	1800	5.00	03/04/2020	ND	526	105	500	2.86	

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

01 East Marland - Hob Tel (575) 393- Fax (575) 393-	2326	ina						t	01	ri	es	s,	I	1C.				С	HAI		DF-	-		-	A A	ND	AN	AL	YSI	SR	EQU	JES	Т	_
ompany Name: RICE Operati	ing Company	3	BILL RIC					om	nar	ιv			PO#			T					A	NA	LY	SIS	RE	OL	JES	T	_					_
^{roject Manager:} Katie Jones					Add	iress							City, Zi	p)		1		a 1 a		121							od No							
	eet, City, Zip)		122 V	/ Tay			~ Hob	bs, I	New	Mex	tico 8	_	_																1	1	H		1	1
	t ~ Hobbs, New Mexico 88240		(575	5) 39		one#: 0174							Fax#: (575)397-	1471				1	0.7														
none #:		Fax #:								_			(070)591-	1471					TCLP Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7 TCLP Metals Ag As Ba Cd Cr Ph Se Hn														
(575) 393-917 oject #:	Project Name:	(575) 397	-14	71			_	~									(C35	0100	6010														
	BD Junction N-20					/	1	7	[]									ded	-	BH	2													
Dject Location:					San	npler	Signa	iture	-	Roza	nne	Joh	nson (575)631	-9310			TPH 418.1/TX1005 / TX1005 Extended (C35)		b Se														
1215 R3/E 5	ec20 N ~ Lea County New M	exico	<	7		Z	Q	11	h	re	_		-					005 E	2	50					100	GZO					03			
INANIEN				K	M	ALF	XIX	1	P			VAT HOD		SAM	PLING			TX1(2						4	GU/MS SEITH. VOI. 82/UC/625				Q	Anions (CI, SO4, CO3, HCO3)	s		24 Hours
LAB #		đ	RS			Γ			2	T	T	1		1	1	N		05/	d	As B		iles			GC/MS VOI. 8260B/624	20.	PCB's 8082/608 Pesticides 8081A/608	200		Cations (Ca, Mg, Na, K)	Ö	Total Dissolved Solids		
	FIELD CODE								HCL (2 40ml VOA)				dOH -	6		B/60	B/60	TX10	20	Age	es	Volat	des		8260	ION .	608 781A	E I	nten	Mg	304,	ed S		i I
LAB USE		or (NTA	с К			빙		2 40m		04	_	1Liter	202		8021	8021	8.1/	700	etals	olatil	TCLP Semi Volatiles	estici	1	io.	mac	0821	S. D	- O	(Ca,	ö	solv	s	
ONLY		3)rab	CO	X						HNO ₃	NaHSO4	H2SO4	ICE (1-1Liter HDPE) NONE	DATE (2020)	TIME	MTBE 8021B/602	BTEX 8021B/602	H 41	PAH 8270C	PM	TCLP Volatiles	PS	TCLP Pesticides	0.00	SIN	CINI	PCB's 8082/608 Pesticides 8081/	BOD, TSS, pH	Moisture Content	suo	Anions (ales al Dis	Chlorides	Turn Around Time ~
/ N	/ Monitor Well #1 G 3 X Z Monitor Well #2 G 3 X						S		_	타	ž :	-		-			-	₽	A 1		5	2	힡				Pas	BOI	Moi	Cat	Anio	Tota	Chlo	Ē
		-	1	-		\vdash	\vdash	_	2	+	+	-	1	2/24	1	-	X	\square	-	-	\square	_	-		\downarrow	\downarrow	\perp)	x x	X	
	and the state of the second				-	-	\vdash	-	2	+	+	-	1	2/24	10:25	-	X		+	_	\square	\downarrow	_	_	-	-	+	\perp		Ц		x x		
		1		1 [°]			\vdash	+	-	+	+	+		2124	12:05		X	-	+	+	+	+	+	+	+	+	+	+	+	\square	,	x x	X	
								+	+	+	+	+	-					-	+	+	+	+	+	+	+	-	+	+	+	\vdash	+	+		╞
								1	1	1	\uparrow							-	+	+	+	+	+	+	+	+	+	+	+	\vdash	+	+		-
																		+	+	+	+	+	+	+	+	+	+	+	+	\vdash	+	+-		-
																				T	\square	+	+	+	+	+	+	+	\vdash	\vdash	+	+		
///	}																							T	T		T	T	\square	\square	+			\vdash
linguished by:	Date:, Time:	Receiv	a d huu																						Τ		T	T	П		\top	\top		
zanne Johnson	2/20/200 14:00	Receiv	ed by.		1	71	1.	1	1	Dat			Time:		1.1	-	-	Resu	ts		Yes		Ν	0										
inquished by:	Date: Time:	Receiv	red By:	1	hor	aton	Staff		Ľ	Dat			20 Time:	14	00	_	Res				Yes		Ν	0	A	dditi	ional	Fax	Nun	ber				
0.				(==			otan	1		Dai	С.		i ine.			REI	VIAR	KS:																
ivered By: (Cir	cle One)	Sample	Conditi	00				_		~	E.C.	/==	-				Ema	ail Re	esult	s:				ices			Contraction of the local division of the loc							
	/	Gample	Conditi	Cool	1	Intact				CH	IECK	KED	BY:								roz	ani	ne1	1@	win	dst	rear	n.n	et					
			Yes	-	Yes	1	-				nitial	ls)			1																			
mpler - UP	S - Bus - Other:		No		No				7	T	2																							



September 08, 2020

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

RE: BD JUNCTION N-20

Enclosed are the results of analyses for samples received by the laboratory on 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 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.

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



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

Received:	09/01/2020	Sampling Date:	08/27/2020
Reported:	09/08/2020	Sampling Type:	Water
Project Name:	BD JUNCTION N-20	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	T21S R37E SEC20 N-LEA CTY., NM		

Sample ID: MONITOR WELL #1 (H002325-01)

BTEX 8021B	mg/	L	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.001	0.001	09/03/2020	ND	0.023	114	0.0200	0.203	
Toluene*	< 0.001	0.001	09/03/2020	ND	0.022	111	0.0200	0.328	
Ethylbenzene*	<0.001	0.001	09/03/2020	ND	0.022	111	0.0200	0.812	
Total Xylenes*	<0.003	0.003	09/03/2020	ND	0.065	109	0.0600	0.674	
Total BTEX	<0.006	0.006	09/03/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 %	58.2-13	3						
Chloride, SM4500Cl-B	mg/	L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	4450	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*	77.6	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*	6960	5.00	09/04/2020	ND	864	86.4	1000	5.66	

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/01/2020	Sampling Date:	08/27/2020
Reported:	09/08/2020	Sampling Type:	Water
Project Name:	BD JUNCTION N-20	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	T21S R37E SEC20 N-LEA CTY., NM		

Sample ID: MONITOR WELL #2 (H002325-02)

BTEX 8021B	mg/	L	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	09/03/2020	ND	0.023	114	0.0200	0.203	
Toluene*	<0.001	0.001	09/03/2020	ND	0.022	111	0.0200	0.328	
Ethylbenzene*	<0.001	0.001	09/03/2020	ND	0.022	111	0.0200	0.812	
Total Xylenes*	<0.003	0.003	09/03/2020	ND	0.065	109	0.0600	0.674	
Total BTEX	<0.006	0.006	09/03/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	58.2-13	3						
Chloride, SM4500Cl-B	mg/	L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	1580	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*	183	25.0	09/03/2020	ND	22.3	112	20.0	2.48	
TDS 160.1	mg/	L	Analyze	d By: GM					
Analyte	Analyte Result Reporting Limit Analyze		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	3180	5.00	09/04/2020	ND	864	86.4	1000	5.66	

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/01/2020	Sampling Date:	08/27/2020
Reported:	09/08/2020	Sampling Type:	Water
Project Name:	BD JUNCTION N-20	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	T21S R37E SEC20 N-LEA CTY., NM		

Sample ID: MONITOR WELL #3 (H002325-03)

BTEX 8021B	mg/	L	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	09/03/2020	ND	0.023	114	0.0200	0.203	
Toluene*	<0.001	0.001	09/03/2020	ND	0.022	111	0.0200	0.328	
Ethylbenzene*	<0.001	0.001	09/03/2020	ND	0.022	111	0.0200	0.812	
Total Xylenes*	<0.003	0.003	09/03/2020	ND	0.065	109	0.0600	0.674	
Total BTEX	<0.006	0.006	09/03/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	58.2-13	3						
Chloride, SM4500Cl-B	mg/	L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	1200	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*	92.1	25.0	09/03/2020	ND	22.3	112	20.0	2.48	
TDS 160.1	mg/	L	Analyze	d By: GM					
Analyte	Analyte Result Reporting Limit Analyze		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	2560	5.00	09/04/2020	ND	864	86.4	1000	5.66	

Cardinal Laboratories

*=Accredited Analyte

Celeg 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

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

D1 East Marland - Hobbs, NM 88240 Tel (575) 393-2326 Fax (575) 393-2476	al I	al)0	ra	t	DI		es	,	Ir	nc.				C	HA		AB (-	-		YA		A C	NA	LY	SIS	R		JES	iT	
mpany Name: RICE Operating Company oject Manager:		ro c E Ope A		ng C	om	par		Stree		O# ty, Zi	ip)															ST No.)							
Catie Jones ress: (Street, City, Zip) 22 W Taylor Street ~ Hobbs, New Mexico 88240	(575	/ Taylor P 5) 393	hone	#:	obs, I	New	Mexi	co 88	Fa	ax#: 575	5)397-	1471					200.7																
	x#: 575) 397	-1471		/	9	7	ŀ		>						ended (C35)		e Hg 6010B/	Se Hg															
ect Location: 21S R37E Sec20 N ~ Lea County New Mexi	со	-	K	er Sign	ature	Δ	RES	ERV		· .	(575)63	1-9310 IPLINC			X1005 Exte		Cd Cr Pb S	I Cd Cr Pb S					4	'0C/625					K)	3, HCO3)		s	111000
FIELD CODE	(G)rab or (C)omp # CONTAINERS	H.	T	SLUDGE		HCL (2 40ml VOA)			Hor HDEV		2020)	TIME	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	CLP 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,	Sulfates Total Discoluted Solids	rotal Dissolved Solids	The second s
	G 3	X		<u>)</u>		2			1	_	8/2		-	X			F					<u>u</u>	0	0				4				_	X
	G 3	X				2			1	1	8/2	9:15	5	X														\square	\Box		_	_	x
3 Monitor Well #3	G 3	×				2			1	1	8/2	10:5	5	X				+		+											X X	x :	x
			+					+	+		1		1						+			_									+	_	+
			+																	$\frac{1}{1}$		_							\square		+		$\frac{1}{1}$
zanne Johnson 9/1/2020 15:30	eceived by	ara	d	Id	b	ta	-	te: 9-1		 Time		30	-	none ax Re					Yes Yes		-	No No		Add	l	nal	Fax	Nun	nber	;			
	eceived By	r: (Lab	orato	ory Sta	aff)		Da	te:	1	Time	9:		R	EMA En	RKS nail I		ults							vd.									
mpler - UPS - Bus - Other:	ample Condi Yes No		es 🖸	tact				HECK	s)	BY:								1	roz	anı	ne(<u>@</u> s	da	cre	S.C	om							

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 23954

CONDIT	IONS
Operator:	OGRID:
RICE OPERATING COMPANY	19174
122 W Taylor	Action Number:
Hobbs, NM 88240	23954
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

-	Condition	Condition
Ву		Date
nvelez	Accepted for the record. See App ID 90541 for most updated status.	10/5/2022