APPROVED By Nelson Velez at 2:35 pm, Jan 25, 2022

RICE Operating Company

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

April 1, 2021

Review of 2020 Annual Groundwater Report: Content satisfactory

1. Continue sampling on a quarterly schedule

2. Submit summarized activities completed and their results in a 2021 Annual Report. Submittal to OCD expected no later than March 31,2022.

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: 2020 Annual Groundwater Report Rice Operating Company – Vacuum SWD System Vacuum Jct. D-31 (1R425-81): UL/D, Sec. 31, T17S, R35E

Mr. Billings:

ROC is the service provider (agent) for the Vacuum SWD System and has no ownership of any portion of the pipeline, well, or facility. The system is owned by a consortium of oil producers, System Parties, who provide all operating capital on a percentage ownership/usage basis. The Vacuum system is now abandoned.

Background and Previous Work

The site is located approximately 0.3 miles south of Buckeye, New Mexico at UL/D, Sec. 31, T17S, R35E as shown on the Site Location Map. Groundwater sampling at the site indicated the depth to groundwater is approximately 118 feet below ground surface (bgs).

In 2009, ROC initiated work on the former Vacuum D-31 junction box as part of the system abandonment. The former junction box and surrounding soil was removed from an excavation of approximately dimensions 10x30x12-ft deep. Soils samples were field analyzed at regular intervals for chloride and hydrocarbon. Representative samples were sent to a commercial laboratory for analysis. The excavated soil was blended and returned to the excavation. A 1-ft thick compacted clay barrier was installed from 4 to 5 ft bgs. Clean, imported soil was installed above the clay barrier and the surface was returned to the natural contour and seeded. NMOCD was notified of potential groundwater impact on November 11th, 2009 and a Junction Box Disclosure Report was submitted with all the 2009 junction box closures and disclosures.

ROC initiated soil sampling and analysis as indicated in our Investigation and Characterization Plan (ICP) of February 8th, 2013. As part of the ICP, personnel were on site to conduct soil bore installations. A total of ten soil bores were drilled at the site with soil samples collected at regular intervals, representative samples were sent to a commercial laboratory for analysis. An additional soil bore (SB-11) was drilled to determine depth to groundwater. Each bore was plugged with bentonite to ground surface.

A Corrective Action Plan (CAP) summarizing the soil sampling was submitted to NMOCD and approved on January 13th, 2015. The CAP proposed installing a 50x90-ft, 20-mil reinforced liner at a depth of 3 ft bgs due to the presence of hard rock in the area. In March 2015, the area was excavated, and a 20-mil reinforced liner was installed and properly seat at a depth of 3 ft bgs. The excavation was backfilled to ground surface and the site was contoured to the surrounding area. The disturbed area was then seeded with a blend of native vegetation. A CAP Report summarizing this work was submitted on August 7th, 2015. NMOCD approved the report and granted "Soil Closure" on August 14th, 2015.

In December 2015, a near-source monitoring well (MW-1) and an up-gradient monitoring well (MW-2) were installed at the site. The wells were developed and have been sampled regularly since installation. The most recent sampling event resulted in a chloride concentration of 60 mg/L in MW-1 and 44 mg/L in MW-2. BTEX concentrations have remained below detectable limits since the wells were installed. In 2020, ROC received NMOCD approval to cease BTEX sampling and temporarily reduce the sampling interval to semi-annual. ROC will continue quarterly sampling in 2021.

Attached is the Appendix, which contains:

- 1. A Geographic 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,

Kati Davis

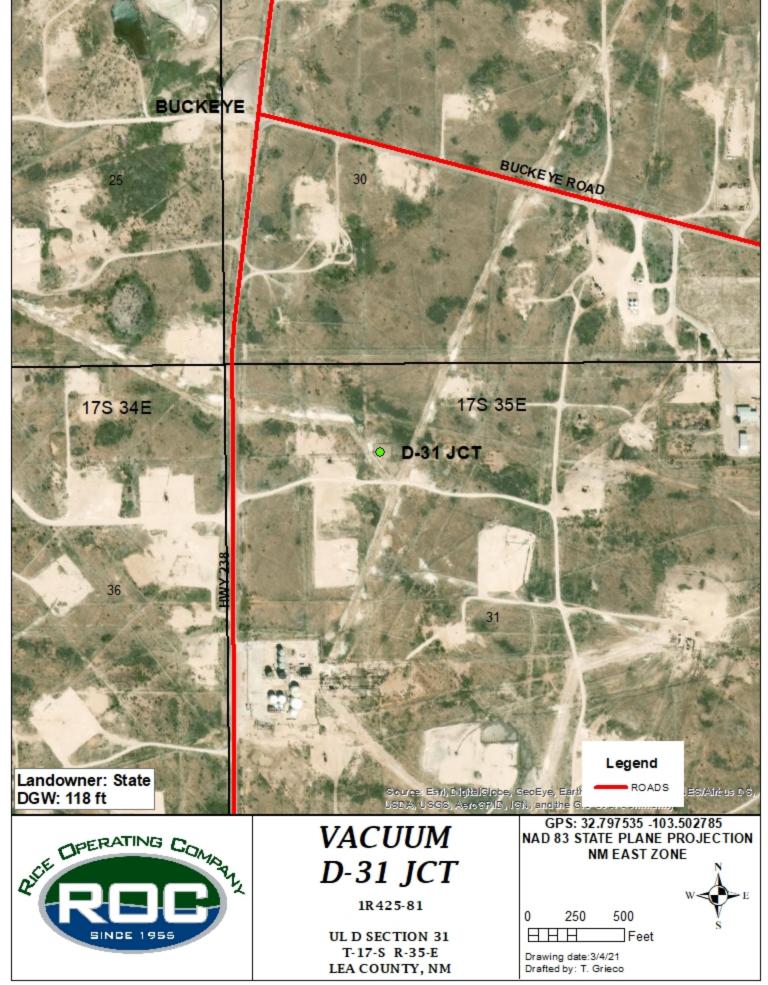
Katie Davis Environmental Manager RICE Operating Company (ROC)

Cc – Edward J. Hansen (ROC)

appendix

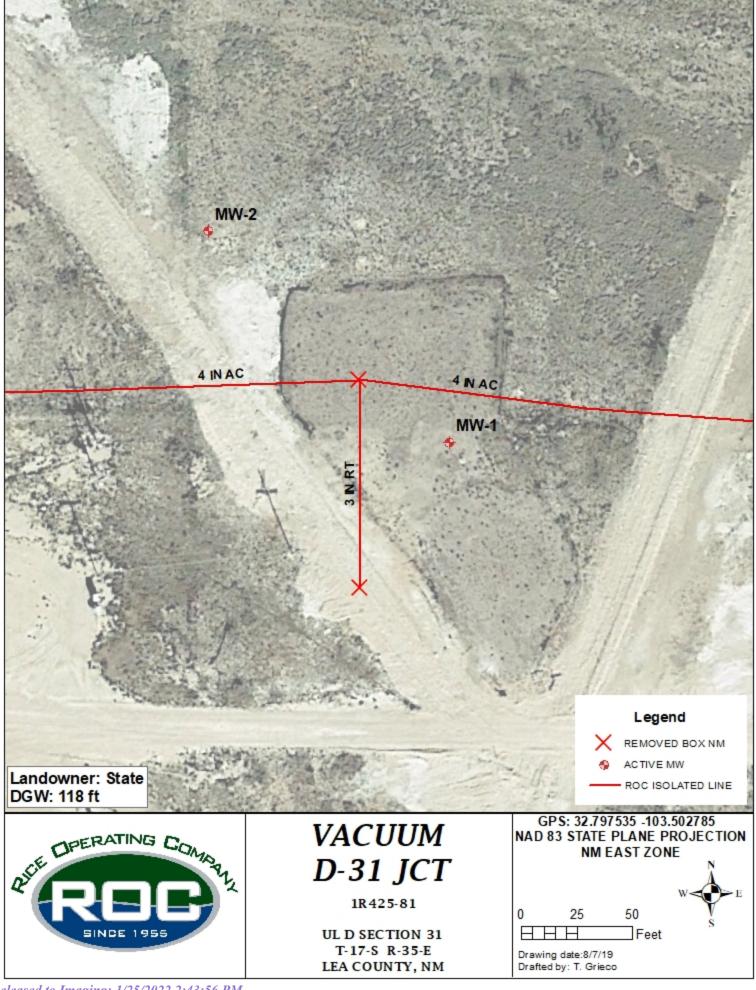
Received by OCD: 4/15/2021 3:27:13 PM Geographic Location

Page 3 of 21



Released to Imaging: 1/25/2022 2:43:56 PM

Received by OCD: 4/15/2021 3:27:13 PM Installed Monitor Wells



Released to Imaging: 1/25/2022 2:43:56 PM

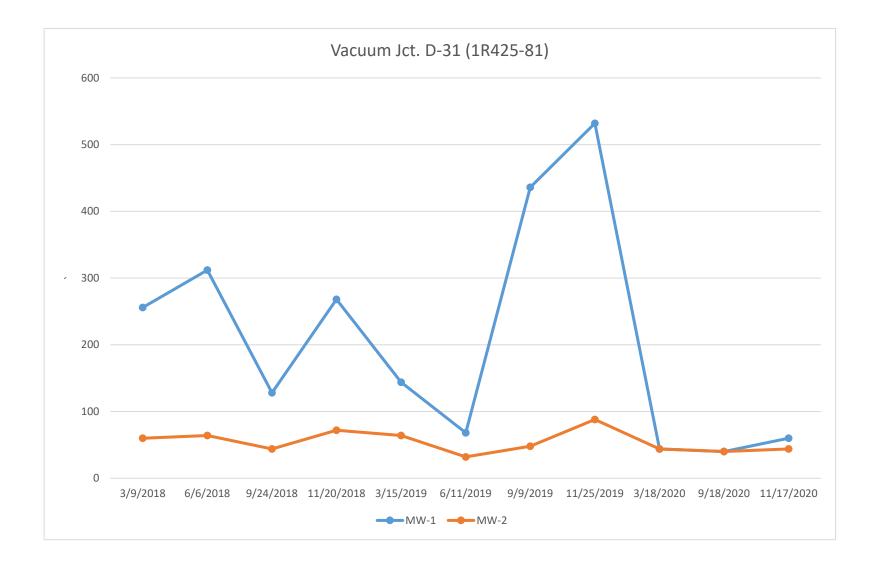
ROC - Vacuum Jct. D-31 (1R425-81) Unit Letter D, Section 31, T17S, R35E

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate	Comments
1	120.56	157.5	24	100	3/17/2016	450	1,040	<0.001	<0.001	<0.001	<0.003	50	Clear No odor
1	120.87	157.5	24	100	6/1/2016	600	1,310	<0.001	<0.001	<0.001	<0.003	71	Clear No odor
1	120.92	157.5	24	100	9/16/2016	460	1,100	<0.001	<0.001	<0.001	<0.003	33	Clear No odor
1	120.9	157.5	24	100	11/21/2016	490	1,150	<0.001	<0.001	<0.001	<0.003	76	Clear No odor
1	121.2	157.5	24	100	3/6/2017	540	1,260	<0.001	<0.001	<0.001	<0.003	59	Clear No odor
1	121.29	157.5	24	100	6/5/2017	680	1,530	<0.001	<0.001	<0.001	<0.003	77	Clear No odor
1	121.11	157.5	23	100	9/15/2017	650	1,720	<0.001	<0.001	<0.001	<0.003	71	Clear No odor
1	120.76	157.5	23	100	12/7/2017	284	770	<0.001	<0.001	<0.001	<0.003	45	Clear No odor
1	120.75	157.5	23	100	3/9/2018	256	658	<0.001	<0.001	<0.001	<0.003	20	Clear No odor
1	120.91	157.5	23	100	6/6/2018	312	872	<0.001	<0.001	<0.001	<0.003	61	Clear No odor
1	121.05	157.5	23	100	9/24/2018	128	398	<0.001	<0.001	<0.001	<0.003	27	Clear No odor
1	121.28	157.5	23	100	11/20/2018	268	706	<0.001	<0.001	<0.001	<0.003	31	Clear No odor
1	120.88	157.5	24	100	3/15/2019	144	481	<0.001	<0.001	<0.001	<0.003	30	Clear No odor
1	121.21	157.5	24	100	6/11/2019	68	522	<0.001	<0.001	<0.001	<0.003	190	Clear No odor
1	122.04	157.5	23	100	9/9/2019	436	1,190	<0.001	<0.001	<0.001	<0.003	43	Clear No odor
1	122.07	157.5	23	75	11/25/2019	532	1,140	<0.001	<0.001	<0.001	<0.003	41	Clear No odor
1	122.19	157.5	23	100	3/18/2020	44	345	<0.001	<0.001	<0.001	<0.003	72.3	Clear No odor
1	123.68	157.5	22	100	9/18/2020	40	355	XXX	XXX	XXX	XXX	47.7	Clear No odor
1	123.68	157.5	22	100	11/17/2020	60	414	XXX	XXX	XXX	XXX	58.4	Clear No odor

мw	Depth to	Total	Well	Volume	Sample Date	ate Cl TDS Benzen		Benzene	Toluene	Ethyl	Total	Sulfate	Comments
	Water	Depth	Volume	Purged	Sample Date	C	103	Delizene	Toluelle	Benzene	Xylenes	Sunate	comments
2	120.68	129.15	1.4	10	3/17/2016	68	414	<0.001	<0.001	<0.001	<0.003	48	Clear No odor
2	121.12	129.15	1.4	10	6/1/2016	24	476	<0.001	<0.001	<0.001	<0.003	42	Clear No odor
2	121.13	129.15	1.4	10	9/16/2016	32	314	<0.001	<0.001	<0.001	<0.003	25	Clear No odor
2	121.11	129.15	1.4	10	11/21/2016	56	334	<0.001	<0.001	<0.001	<0.003	49	Clear No odor
2	121.44	129.15	1.2	10	3/6/2017	68	378	<0.001	<0.001	<0.001	<0.003	52	Clear No odor
2	121.54	129.15	1.2	10	6/5/2017	84	540	<0.001	<0.001	<0.001	<0.003	58	Clear No odor

ROC - Vacuum Jct. D-31 (1R425-81) Unit Letter D, Section 31, T17S, R35E

MW	Depth to	Total	Well	Volume	Sample Date	CI TDS I		Ponzono	Toluene	Ethyl	Total	Sulfate	Comments
	Water	Depth	Volume	Purged	Sample Date	U	103	Benzene	Toluelle	Benzene Xylenes		Sunate	Comments
2	121.37	129.15	1.2	10	9/15/2017	92	378	<0.001	<0.001	<0.001	<0.003	47	Clear No odor
2	121.03	129.15	1.3	10	12/7/2017	32	366	<0.001	<0.001	<0.001	<0.003	63	Clear No odor
2	121.05	129.15	1.3	10	3/9/2018	60	374	<0.001	<0.001	<0.001	<0.003	65	Clear No odor
2	121.21	129.15	1.3	10	6/6/2018	64	437	<0.001	<0.001	<0.001	<0.003	79	Clear No odor
2	121.75	129.15	1.2	8	9/24/2018	44	348	<0.001	<0.001	<0.001	<0.003	42	Clear No odor
2	122.01	129.15	1.1	8	11/20/2018	72	432	<0.001	<0.001	<0.001	<0.003	44	Clear No odor
2	121.19	129.15	1.3	8	3/15/2019	64	269	<0.001	<0.001	<0.001	<0.003	45	Clear No odor
2	121.51	129.15	1.2	8	6/11/2019	32	127	<0.001	<0.001	<0.001	<0.003	46	Clear No odor
2	122.36	129.15	1.1	8	9/9/2019	48	368	<0.001	<0.001	<0.001	<0.003	43	Clear No odor
2	122.35	129.15	1.1	8	11/25/2019	88	232	<0.001	<0.001	<0.001	<0.003	45	Clear No odor
2	122.5	129.15	1.1	8	3/18/2020	44	311	<0.001	<0.001	<0.001	<0.003	49.1	Clear No odor
2	124.04	129.15	0.8	8	9/18/2020	40	338	XXX	XXX	XXX	XXX	63.8	Clear No odor
2	124.04	129.15	0.8	8	11/17/2020	44	377	XXX	XXX	XXX	XXX	37.2	Clear No odor





March 26, 2020

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

RE: VACUUM JUNCTION D-31

Enclosed are the results of analyses for samples received by the laboratory on 03/20/20 12:36.

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/qa/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,

Whe Singh

Mike Snyder For Celey D. Keene Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/20/2020	Sampling Date:	03/18/2020
Reported:	03/26/2020	Sampling Type:	Water
Project Name:	VACUUM JUNCTION D-31	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	T17S-R35E-SEC31 D-LEA CTY, NM		

Sample ID: MONITOR WELL #1 (H000866-01)

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	03/25/2020	ND	0.021	106	0.0200	0.675	
Toluene*	<0.001	0.001	03/25/2020	ND	0.021	105	0.0200	1.05	
Ethylbenzene*	<0.001	0.001	03/25/2020	ND	0.021	107	0.0200	1.78	
Total Xylenes*	<0.003	0.003	03/25/2020	ND	0.062	103	0.0600	1.69	
Total BTEX	<0.006	0.006	03/25/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 %	6 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*	44.0	4.00	03/23/2020	ND	100	100	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*	72.3	10.0	03/23/2020	ND	21.5	108	20.0	0.980	
TDS 160.1	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	345	5.00	03/25/2020	ND	554	111	500	1.23	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the sample identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

mite Sugar

Mike Snyder For 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:	03/20/2020	Sampling Date:	03/18/2020
Reported:	03/26/2020	Sampling Type:	Water
Project Name:	VACUUM JUNCTION D-31	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	T17S-R35E-SEC31 D-LEA CTY, NM		

Sample ID: MONITOR WELL #2 (H000866-02)

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	03/25/2020	ND	0.021	106	0.0200	0.675	
Toluene*	<0.001	0.001	03/25/2020	ND	0.021	105	0.0200	1.05	
Ethylbenzene*	<0.001	0.001	03/25/2020	ND	0.021	107	0.0200	1.78	
Total Xylenes*	<0.003	0.003	03/25/2020	ND	0.062	103	0.0600	1.69	
Total BTEX	<0.006	0.006	03/25/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 %	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*	44.0	4.00	03/23/2020	ND	100	100	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*	49.1	10.0	03/23/2020	ND	21.5	108	20.0	0.980	
TDS 160.1	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	311	5.00	03/25/2020	ND	554	111	500	1.23	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the sample identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

mite Sugar

Mike Snyder For 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

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims based upon any of the above stated reasons or otherwise. Results relate only to the sample identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Mite Sugar

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

0 0 21																												-	-	1		-	100
Cardin	al	Т	പ	ho	r	91		ri	0	2	T	n	C				CH	-	-		1000 A	And the owned		(A	ND	AN	AL	YS	ISI	REQ	UES	ST	
Tel (575) 393-2326	a		a	UU	1	a	U			3,									LAE	3 Or	der	ID #									-	10000	
Company Name:		BILL TO		Comp						1	PO#									A	NA	LY	SIS	RE	QL	JES	т						
RICE Operating Company	I	RICE				Co	mp	any	101			7150			(Circle or Specify Method No.)																		
Katie Longs Katie Longs 122 W Taylor Street ~ Hobbs, New Mexico 88240														1	1	1	1		1	1	1		1							1			
Katie Jones	1	22 W	a second second	r Stre		Hobbs	s, Ne	ew Me	XICO	COLUMN TWO IS NOT	u Fax#	±.																					
Address: (Street, City, Zip)		(575)											97-1	471				0	B.														
122 W Taylor Street ~ Hobbs, New Mexico 88240 Phone #: File	ax #:	(515)	00	0-01	14		-	_			(0.	- /-					2	100	IDIA														
	575)	397-	147	1	-	/	7										S	100															
Project #: Project Name:				/		/	/	T									ded	4	위 문 문	2													
Vacuum Junction D-3	1	-	1	Cam	2	incol		Pa	7200	le loh	Insor	n (57	5)631-	9310			TPH 418.1/TX1005 / TX1005 Extended (C35)	4	Total Metals Ag As Ba Cd Cr Pb Se Hg δυτυδίζου./ ΤΟι D Ματοίε Δη Δε Βα Cd Cr Pb Se Hd											3)			ų
Project Location:	vico	1		San	JIET S	ignat		1	Lain	- JUI	11301		5,001-				05 E	C .		5					GC/MS Semi. Vol. 8270C/625					Na, K) CO3, HCO3)			Chlorides Turn Around Time ~ 24 Hours
T17S-R35E-Sec31 D ~ Lea County New Mex	acu	-			F	V	+	PRI	SE	RVA	TIVE	E		PLING	1		ž		3 3	3				4	10C					S S		s	1 10
				MA	TRI	X	Y		MET	ГНОГ	D		SAM	PLING			11	1	Ba		s			3/62	827		608			CO Na		Solid	2
	ę	# CONTAINERS						(A)			(i)				302	02	100	ŀ	3 AS		TCLP Semi Volatiles	se		GC/MS Vol. 8260B/624	Vol.	8	Pesticides 8081A/608		Moisture Content	Cations (Ca, Mg, Na, K) Anions (Cl. SO4, CO3, F		Total Dissolved Solids	I E
LAB # FIELD CODE	uo(;	EN EN									H		50)		8021B/602	1B/6	Ě	0	IS AC	tiles	i Vo	licide		.8		32/6	80	F	5 S	Ca,		solv	Put
	(G)rab or (C)omp	ITA	R		AIR	빙		HCL (2 40ml VOA) HNO3	0		ICE (1-1Liter HDPE)		DATE (2020)		802	BTEX 8021B/602	18.1	PAH 8270C	Aeta Meta	TCLP Volatiles	Ser	TCLP Pesticides		S Vo	S Se	PCB's 8082/608	ides	BOD, TSS, pH	nre	Cations (Ca, Mg, Anions (Cl. SO4.	les	Dis	Chlorides
(LAB USE ONLY)	rab	NO.	WATER	=		9		HCL (2 HNO ₃	NaHSO4	H ₂ SO ₄	Е Ш	NONE	E	TIME	MTBE	Ш	H	I	tal V		F	LP	5	NO.	NO.	CB's	estic	g	oist	atio	Sulfates	otal	
HOODSLOG	(Ð	#	Ž	SOIL	Ā	SL	1	ΞÍ	Na	H2	Ū	ž	ð	Ē	Σ	-	F	A	24		F	F	RCI	ŏ	ŏ	ď	P	ĕ	Σ	U A	-		
/ Monitor Well #1	G	3	X					2			1		3/18	13:50		X		\rightarrow	+	+	-								-	+	-		X
2 Monitor Well #2	G	3	X					2			1		3/18	10:15	5	X		-+	+	+	+	-							-	+	X	x	x
																		_	+	+	\vdash									+	+	-+-	
																		_	-	_	\vdash	-		-						+	+		+
																			_	\perp	\perp			-						+	+	\vdash	-
			T																	-										+	+-	\vdash	
			T																	\perp										-	+	\vdash	
			\top				Τ																							_	+	\square	
			T				Τ	-																						-	+	\vdash	
						Π																											
Petidomished by: Date: Time:	Receiv	ed by	:						Date	e:	Ti	ime:			Pł	none	Res	ults	_	Y	es	⊢	No										
Rezanne Jenson 4 3/20/2020 12:26															Fa	ax Re	sults	5		Y	es		No	,	Ad	ditio	nal	Fax	Nun	nber:			
Liozanno o di sente di la contra di la contr	Recei	ved By	/: (L	abo	ator	y Sta	ff)		Date	e:	Ti	ime:			R	EMA	RKS	:															
V	14	n	i.	A	le r	N	D	N	v	31	20	12	0 12	2:36	5	En	nail I	Resi	ults:	k	ion	es(Qric	ces	wd.	cor	n						
	Sample	Condi	ition					CHEC		and the second division of the second divisio	of the local division of the local divisiono				1					r	oza	nne	e11	@v	vinc	Istr	ear	n.n	et				
Delivered By: (Circle One)	Sertifie	0010	Co	ol	Intac	ct				1	1	1																					
Relinquis de by: Date: Time: Delivered By: (Circle One)		Yes		Yes	5			(Initia	ls)	H	K	T																					
Sampler - UPS - Bus - Other:		No		No				-	L	10	1		-								-	-		-		-	-	-	-				
9									0																								
Received																																	
60																																	

.



September 29, 2020

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

RE: VACUUM JUNCTION D-31

Enclosed are the results of analyses for samples received by the laboratory on 09/23/20 10:35.

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/qa/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:	09/23/2020	Sampling Date:	09/18/2020
Reported:	09/29/2020	Sampling Type:	Water
Project Name:	VACUUM JUNCTION D-31	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	T17S-R35E-SEC31 D-LEA CTY, NM		

Sample ID: MONITOR WELL #1 (H002522-01)

Chloride, SM4500Cl-B	mg,	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	40.0	4.00	09/23/2020	ND	100	100	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*	47.7	10.0	09/25/2020	ND	19.4	97.0	20.0	0.258	
TDS 160.1	mg,	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	355	5.00	09/25/2020	ND	827	82.7	1000	23.8	

Sample ID: MONITOR WELL #2 (H002522-02)

Chloride, SM4500Cl-B	mg,	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	40.0	4.00	09/23/2020	ND	100	100	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*	63.8	10.0	09/25/2020	ND	19.4	97.0	20.0	0.258	
TDS 160.1	mg,	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	338	5.00	09/25/2020	ND	827	82.7	1000	23.8	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims based upon any of the above stated reasons or otherwise. Results relate only to the sample identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
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 SM4500CI-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 whatscever 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, whother business interruptors, loss of use, or loss of profits incurred by client, its subsidiaries, afflicate or successor 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.

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

Tel (575) 393-2326 Fax (575) 393-2476 Mpany Name:	IL		b	Dr	at	0	r	ie	s,	I	nc	•		_		CH							A	ND	AN	AL	/SIS	SR	EQ	JES	т
RICE Operating Company	BILL T	0	Comp	any:						PO#			\neg	_			-	LAB	Or	der I	D#		_				_				
bject Manager:	RICE	: Op	Addre	ting ss:	Con	npa	iny		eat	City, 2									A	NA	LYS	SIS	RE	QU	ES	Т					
Katie Jones dress: (Street, City, Zip)	122 W	Taylor	Stre	et ~ H	obbs,	Nev	v Me				.ip)			1	1	I	1				or Sp I	pecif	y Me	etho	d No)					
22 W Taylor Street ~ Hobbs, New Mexico 88240	(575)	F	hone	#:						Fax#:			\neg																		
575) 302 0174 Fax#:	the second second second second	and the second second		/4			2	1	7	(575	5)397	-147	1				6010B/200.7														
ect #: Project Name: (575)) 397-1	1471		_	_	/		1							TPH 418.1/TX1005 / TX1005 Extended (C25)	leen	010B														
Vacuum Junction D-31			/	/	/		1	V	/	7					1 pop	nan	Hg 6	머													
17S-R35E-Sec31 D ~ Lea County New Mexico		S	ample	er Sig	ature		Roz	anne	Joh	nson (575)63	1-9310	-		Exten		Total Metals Ag As Ba Cd Cr Pb Se Hg	^{ob} Se													
	-	1	MAT	-	9	7P	RES		VAT	IVE	-		4	+	005		C P	C		1	1		625					Cations (Ca, Mg, Na, K)	(03)		
од 522 LAB # 8	s	4	T		A	_	M	ETH	IOD		SAN	IPLIN	G		/TX1		a Cd	Ba Co				24	GC/MS Semi. Vol. 8270C/625		_			2	n, H	s	
FIELD CODE	NEA					(VO)				DPE)			603	200	1005		AsE	g As	ofiloo	s annes		30B/6	ol. 82		A/60		ŧ	Na Na	3	Solid	
AB USE	ITAI	хl		ш		40ml		4		iter H	020)		21B/	18/6	XLL	0	ls Ag	als A	i Vol-	icides		826	ni. Vo	2/608	8081	E	onter	a, Mg	200	ved	
LAB # FIELD CODE de (C) AB USE ONLY) ge (S)	# CONTAINERS	SOIL		SLUDGE		HCL (2 40ml VOA)	HNO3	NaHSO4	24	NONE (1-1Liter HDPE)	DATE (2020)		MTBF 8021B/802	BTEX 8021B/602	418.	PAH 8270C	Meta	TCLP Metals A	TCLP Semi Violetiloo	TCLP Pesticides		GC/MS Vol. 8260B/624	S Ser	PCB's 8082/608	Pesticides 8081A/608	BOD, TSS, pH	Moisture Content	Cations (Ca, Mg, Na, K) Anions (CI SO4 CO3 L	s C	Total Dissolved Solids	es
Monitor Well #4				5	of the Local Division in which the local division in which the local division in which the local division is not the local division in the local division	-	I :	Na		2 S	DAT	TIME	MTB	BTE)	TPH	PAH	Total			CLP	RCI	SCAM	C/M	CB's	estici	OD,	oistu	ations	Sulfates	otal D	Chlorides
Monitor Well #2 G		x x	+	+		2	+	+	-	1	3/18		_	X	-			ť	f	1	1	10	0	₫.	₫.	-	20	214	x x		
		+	+	++	+	2	+	+	+1	1	3/18	10:1	5	X													+	+	X		X
			\top	\square	+	+	+	+	+	+	9/2	120	╀	-	+	\vdash	-	+	1								T	T			-
							1	+	+	+	9/2:		┢	\vdash		\vdash	+	+	+	-							-				
		-	-										\vdash	\vdash	Н	\vdash	+	+	\vdash					-	+	+	+	+	\square	-	
		+		\vdash	+	+	+	-									1	+					+	+	+	+	+	+	$\left \right $	+	+
		\vdash	\vdash	\vdash	+	+	+	+	-	+														+	+	+	+	+	+	+	+
uished by: Date: Time:				-	+	+	+	+	+	+						+	+										T	\uparrow	H	+	+
Received			1	ni	11	1	Date	:	Ti	me:			Pho	one F	Resu	lts	+	Ye			No										
lished by	wat	ad	A	da	G	l	9	-23	3-2	0	10	357	and the second division of the second divisio	-		10	+	Yes	-	-		-				-					
Date: Time: Received	BY: (L	abora	atory	Staff	V	D)ate:	:	Ti	me:					KS:		-	10.	<u> </u>	- 1	No	1	Addi	liona	al Fa	x Nu	mbe	r:			
ed By: (Circle One) Sample Co	ndition			-										Ema	ail Re	esult	s:	kjo	ne	s@	rice	SW	d.co	m							
\frown	Cool	1	ntact		CH	ECK	ED	BY:														laci			n						
Ves Ves Voler - UPS - Bus - Other: No		Yes	7	1.	-	tials)																									
No		No			V		•																								

Released to Imaging: 1/25/2022 2:43:56 PM

•



December 01, 2020

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

RE: VACUUM JUNCTION D-31

Enclosed are the results of analyses for samples received by the laboratory on 11/20/20 16:05.

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/qa/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:	11/20/2020	Sampling Date:	11/17/2020
Reported:	12/01/2020	Sampling Type:	Water
Project Name:	VACUUM JUNCTION D-31	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	T17S-R35E-SEC31 D-LEA CTY, NM		

Sample ID: MONITOR WELL #1 (H003086-01)

Chloride, SM4500Cl-B	mg,	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	60.0	4.00	11/23/2020	ND	100	100	100	0.00	
Sulfate 375.4	mg,	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	58.4	10.0	11/23/2020	ND	23.4	117	20.0	2.07	
TDS 160.1	mg,	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	414	5.00	11/23/2020	ND	494	98.8	500	0.971	

Sample ID: MONITOR WELL #2 (H003086-02)

Chloride, SM4500CI-B	mg,	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	44.0	4.00	11/23/2020	ND	100	100	100	0.00	
Sulfate 375.4	mg,	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	37.2	10.0	11/23/2020	ND	23.4	117	20.0	2.07	
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	11/24/2020	ND	494	98.8	500	0.971	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the sample identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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

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 whatscever 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, whother business interruptors, loss of use, or loss of profits incurred by client, its subsidiaries, afflicate or successor 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 D. Keine

Celey D. Keene, Lab Director/Quality Manager

1 East Marland - Hobbs, NM 88240 Tel (575) 393-2326 Fax (575) 393-2476	al I	19	h	0	ra	t	r	i	26	1	In	C				C	HA	IN-0	OF-	CU	JST	OD	Y	AND	D A	NA	LY	SIS	RE	QU	ES	Г
Fax (575) 393-2476				-				1	-0	, ,								LA	BO	rde	r ID i	¥										
RICE Operating Company	BILL			mpar	-	_				PC	D#			Т					4		ALY	212	P	EO		ет						
ject Manager:	RIC	EU		dress	ig C	omp	ban		Street,	Cit	710	_		1							e or s											
Katie Jones	122 1	VTau				he N					y, zip)				1		1	1	1	1	1			1	1	1		Ē		1		
Iress: (Street, City, Zip)	122 0	viay	Contraction of the	one#:	~ HOD	DS, N	Iew N	lexic	0 882	40 Fax	with the			4																		
22 W Taylor Street ~ Hobbs, New Mexico 88240	(57	5) 3			4							397-	1/71					0.7														
ne #: Fax		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							Concerning of the	(5	15)	591-	14/1	-				3/20														
575) 393-9174 (57	5) 397	-14	71													TPH 418.1/TX1005 / TX1005 Extended (C35)		TCLP Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7 TCLP Metals Ag As Ba Cd Cr Ph Se Hd														
ect #: Project Name:					1	>	1							1)) pa		9 9	20													
Vacuum Junction D-31				/			L	_	2							ande		E H	-													
ect Location:			San	nøler	Signa	ture:	17	ozar	ine Jo	base	on (57	/5)631-	-9310	1		Exte		S q												2		
17S-R35E-Sec31 D ~ Lea County New Mexic)	-	1	2	F	\checkmark	11	5		_						005		5 0	5					625						3		
			M	ATF	X		PR		RVA		E	SAM	PLING			TX10	1	30					4	'0C/					2	Ĭ		
003086 LAB #	ŝ	F	1	T		+		ME	THO	1			1	1		21	d	s Ba		es			GC/MS Vol. 8260B/624	GC/MS Semi. Vol. 8270C/625		808			Cations (Ca, Mg, Na, K)	CO3, HCO3)	Total Dissolved Solids	
LAB # FIELD CODE (C) LAB USE ONLY (C)	CONTAINERS						(A)			ICE (1-1Liter HDPE)				602	302	100		AD		TCLP Semi Volatiles	s		260	/ol.	8	1A/		ent	ja l		d S	
FIELD CODE	A A						Ē			er HI		20)		1B/	1B/6	Ě		Is A	tiles	2	cide		82	in.	2/60	808	E	out	S, S		lve	
LAB USE	1 z	К			Ö		4 40	d	4 4	-1Lib		(20		802	802	18.1	017	Aeta	(olat	em	esti		201	Ser	808	es	SS,	O	0	Ĵ.,	sso	es
ONLY	8	WATER	SOIL	1°	SLUDGE	-	HND.	NaHSO.	H ₂ SO ₄	С Ш	NONE	DATE (2020)	W	MTBE 8021B/602	BTEX 8021B/602	4	Total Matala	PAG	TCLP Volatiles	P S	TCLP Pesticides		MS	MS	PCB's 8082/608	ticid	F.	stur	suo	ates	D	orid
	#	-	ő	AIR	3	È	ΞÍ	Z	Ĩ	2	ž	DA	TIME	ΨT	BTI	ITPI	A P		TCI	10	10	RCI	GC	GC	PC	Pesticides 8081A/608	BOD, TSS, pH	Moisture Content	Cat	Sulfates	Tota	Chlorides
(Monitor Well #1 G	1	X								1		11/17	13:00					T									\square	+		X	-	X
Z Monitor Well #2 G	1	X								1		11/17	9:20				Τ	T									\neg	+	+	X	-	X
						T	T	Γ									+	+				+					+	+	+	Ť	Ê	~
						T	T									+	+	+	H		-	+	+	+	-		+	+	+	+	+	
						+	+	+			\vdash			\square		+	+	+	\square		-	+	+	+	-	-	+	+	+	+	+	
	1					+	+	+						\vdash	\vdash	+	+	+	\vdash	-	+	+	+	+	-	-	+	+	+	+		
		\square		\vdash	+	+	+	+	+		\square			\square		+	+	+	\square	+	-	+	+	-+	-	\rightarrow	+	+	+	+		
		\vdash		\square	+	+	+	+	+		\vdash			\square		+	+	+	\square	-	-	\rightarrow	\rightarrow	\rightarrow	_	_	\downarrow	\downarrow	\perp			
	+	\vdash			-	+	+	+	+					\square	-	_	+	-		-		-										
n		\square	_		-	+	+	-	+																							
quished by Date: Time: Rece													1.1																			
	ived by:			1	11			ate	:	Tin	ne:			Pho	ne R	esult	S		Yes	5	1	lo										
nne pontson 11/20/20 16:05	huu	r	21	M	de	1	CK		11-2	0-0	20	16	os	Fax	Res	ults			Yes			lo		Addi	tion	al Fa	ax N	lumh	er.			
quisted by: Date: Time: Rece	ved By:	(La	bora	atory	Staff)		ate:		Tim				REN	IAR	KS:		-		-	-	-	-					Carrie				
															-				L.i.e		-											
ered By: (Circle One) Samp	e Conditi	20			-	CL	IFON	50	D)//	-			_		Ema	il Re	suit				<u>s@</u>											
Gamp	e conuiti	Cool	1	Intact		GF	IECK	ED	BA:										roz	an	ne@	2sd	lac	res	CO	m						
	Yes	7	Yes	7	-	(Ini	itials)																									
pler - UPS - Bus - Other:	No		No			Y	٢)																								
	110								Concession of the												-											

Released to Imaging: 1/25/2022 2:43:56 PM

•

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 24246

CONDIT	IONS
Operator:	OGRID:
RICE OPERATING COMPANY	19174
122 W Taylor	Action Number:
Hobbs, NM 88240	24246
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created	Condition	Condition
By		Date
nvelez	None	1/25/2022