

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

September 22, 2020

Brent Hedstrom
Crestone Peak Resources
2020 E. Grand Avenue, Suite 515
Laramie, WY 82070
RE: North Rinn 2-6-9
Work Order #2009145

Enclosed are the results of analyses for samples received by Summit Scientific on 09/14/20 10:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Muri Premer". The signature is written in a cursive style with a large initial "M" and a long, sweeping underline.

Muri Premer For Paul Shrewsbury
President



Crestone Peak Resources
2020 E. Grand Avenue, Suite 515
Laramie WY, 82070

Project: North Rinn 2-6-9

Project Number: LOE W73580 COGCC-424121
Project Manager: Brent Hedstrom

Reported:
09/22/20 15:39

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Surface Casing	2009145-01	Water	09/03/20 11:01	09/14/20 10:30

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S₂

2009145

4653 Table Mountain Drive ♦ Golden, Colorado 80403
303-277-9310

Client: Crestone Peak Resources	Project Manager: Brent Hedstrom
Address: 10188 East I-25 Frontage road	E-Mail: brent.hedstrom@crestonepr.com
City/State/Zip: Firestone, CO 80504	
Phone: 303-434-3007	Project Name: North Rinn 2-6-9 LOE W73580
Sampler Name:	Project Number: COGCC 424121

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested							Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	Anion	Cations	TDS	BTEX 8020	DRO	GRO	RSK-175		
1	Surface Casing	9/3/2020	11:01	9		X	X			X				X	X	X	X	X	X		
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					

Relinquished by: BH	Date/Time: 09-14-20 10:30	Received by:	Date/Time: 09/14/2020 10:30	Turn Around Time (Check)	Notes:
				Same Day <input type="checkbox"/>	72 hours <input type="checkbox"/>
				24 hours <input type="checkbox"/>	Standard <input checked="" type="checkbox"/>
				48 hours <input type="checkbox"/>	
				Sample Integrity: <input checked="" type="checkbox"/>	3.1
				Temperature Upon Receipt: <input checked="" type="checkbox"/>	
				Samples Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	



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Surface Casing
2009145-01 (Water)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/03/20 11:01**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	480000	10000	ug/l	10000	2009165	09/15/20	09/16/20	EPA 8260B	
Toluene	810000	10000	"	"	"	"	"	"	
Ethylbenzene	260000	10000	"	"	"	"	"	"	
Xylenes (total)	1600000	20000	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	210000000	5000000	"	"	"	"	"	"	

Date Sampled: **09/03/20 11:01**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		1220 %	23-173		"	"	"	"	S-02
<i>Surrogate: Toluene-d8</i>		125 %	20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		1440 %	21-167		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/03/20 11:01**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	610000	50	mg/L	10	2009159	09/15/20	09/16/20	EPA 8015M	

Date Sampled: **09/03/20 11:01**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>		1080 %	58.9-148		"	"	"	"	S-02

Dissolved Gases by RSK-175

Date Sampled: **09/03/20 11:01**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Methane	4.4	1.0	mg/L	100	2009209	09/17/20	09/18/20	RSK-175 mod	I-03
Ethane	14	1.0	"	"	"	"	"	"	I-03
Propane	29	1.0	"	"	"	"	"	"	I-03

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Surface Casing
2009145-01 (Water)

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Dissolved Gases by RSK-175

Date Sampled: **09/03/20 11:01**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: Ethene		82.4 %	70-130		2009209	09/17/20	09/18/20	RSK-175 mod	I-03

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

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Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2009165 - EPA 5030 Water MS

Blank (2009165-BLK1)

Prepared: 09/15/20 Analyzed: 09/16/20

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Gasoline Range Hydrocarbons	ND	500	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	12.9		"	13.3		97.1	23-173			
<i>Surrogate: Toluene-d8</i>	13.7		"	13.3		103	20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	12.2		"	13.3		91.3	21-167			

LCS (2009165-BS1)

Prepared: 09/15/20 Analyzed: 09/16/20

Benzene	30.7	1.0	ug/l	33.3		92.2	70-130			
Toluene	37.8	1.0	"	33.3		113	70-130			
Ethylbenzene	38.6	1.0	"	33.3		116	70-130			
m,p-Xylene	79.0	2.0	"	66.7		118	70-130			
o-Xylene	37.6	1.0	"	33.3		113	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	13.5		"	13.3		101	23-173			
<i>Surrogate: Toluene-d8</i>	14.3		"	13.3		107	20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	12.6		"	13.3		94.9	21-167			

Matrix Spike (2009165-MS1)

Source: 2009148-01

Prepared: 09/15/20 Analyzed: 09/16/20

Benzene	31.4	1.0	ug/l	33.3	ND	94.1	70-130			
Toluene	39.7	1.0	"	33.3	ND	119	70-130			
Ethylbenzene	38.2	1.0	"	33.3	ND	115	70-130			
m,p-Xylene	79.8	2.0	"	66.7	ND	120	70-130			
o-Xylene	37.9	1.0	"	33.3	ND	114	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	13.8		"	13.3		104	23-173			
<i>Surrogate: Toluene-d8</i>	14.0		"	13.3		105	20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	12.9		"	13.3		96.9	21-167			

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Volatile Organic Compounds by EPA Method 8260B - Quality Control
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Analyte	Result	Reporting		Spike Level	Source Result	%REC		RPD		Notes
		Limit	Units			%REC	Limits	RPD	Limit	

Batch 2009165 - EPA 5030 Water MS

Matrix Spike Dup (2009165-MSD1)	Source: 2009148-01			Prepared: 09/15/20 Analyzed: 09/16/20						
Benzene	30.9	1.0	ug/l	33.3	ND	92.7	70-130	1.45	30	
Toluene	38.8	1.0	"	33.3	ND	116	70-130	2.17	30	
Ethylbenzene	38.6	1.0	"	33.3	ND	116	70-130	0.886	30	
m,p-Xylene	79.7	2.0	"	66.7	ND	120	70-130	0.0627	30	
o-Xylene	38.2	1.0	"	33.3	ND	115	70-130	0.841	30	
Surrogate: 1,2-Dichloroethane-d4	14.3		"	13.3		108	23-173			
Surrogate: Toluene-d8	14.4		"	13.3		108	20-170			
Surrogate: 4-Bromofluorobenzene	12.7		"	13.3		95.3	21-167			

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Extractable Petroleum Hydrocarbons by 8015 - Quality Control
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Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

Batch 2009159 - EPA 3520B

Blank (2009159-BLK1)

Prepared & Analyzed: 09/15/20

C10-C28 (DRO) ND 5.0 mg/L

LCS (2009159-BS1)

Prepared & Analyzed: 09/15/20

C10-C28 (DRO) 58.6 5.0 mg/L 50.0 117 70-130

Matrix Spike (2009159-MS1)

Source: 2009138-01

Prepared & Analyzed: 09/15/20

C10-C28 (DRO) 56.8 5.0 mg/L 50.0 2.19 109 70-130

Matrix Spike Dup (2009159-MSD1)

Source: 2009138-01

Prepared & Analyzed: 09/15/20

C10-C28 (DRO) 54.5 5.0 mg/L 50.0 2.19 105 70-130 4.13 20

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Dissolved Gases by RSK-175 - Quality Control
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Analyte	Reporting			Spike	Source		%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

Batch 2009209 - GC

Blank (2009209-BLK1)

Prepared: 09/17/20 Analyzed: 09/18/20

Methane	ND	0.010	mg/L								
Ethane	ND	0.010	"								
Propane	ND	0.010	"								
Surrogate: Ethene	0.0428		"	0.0364		118	70-130				

LCS (2009209-BS1)

Prepared: 09/17/20 Analyzed: 09/18/20

Methane	0.034	0.010	mg/L	0.0428		78.3	70-130				
Ethane	0.097	0.010	"	0.0798		122	70-130				
Propane	0.14	0.010	"	0.139		103	70-130				
Surrogate: Ethene	0.0915		"	0.0728		126	70-130				

Duplicate (2009209-DUP1)

Source: 2009161-01

Prepared: 09/17/20 Analyzed: 09/18/20

Methane	1.2	0.10	mg/L		1.0			18.1	30		
Ethane	0.0033	0.010	"		0.0052			44.7	30		QR-03
Propane	0.00060	0.010	"		0.0041			149	30		QR-03
Surrogate: Ethene	0.0430		"	0.0364		118	70-130				

Matrix Spike (2009209-MS1)

Source: 2009161-01

Prepared: 09/17/20 Analyzed: 09/18/20

Methane	1.3	0.10	mg/L	0.0428	1.0	650	70-130				QM-05
Ethane	0.092	0.010	"	0.0798	0.0052	109	70-130				
Propane	0.13	0.010	"	0.139	0.0041	93.5	70-130				
Surrogate: Ethene	0.0827		"	0.0728		114	70-130				

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Notes and Definitions

- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
- 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-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
- I-03 This sample was recieved and analyzed outside of the recommended holding time.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference