

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

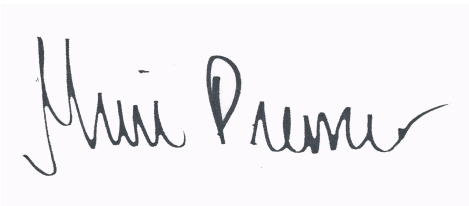
303.277.9310

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, reading "Muri Premier", is displayed on a light purple rectangular background.

Muri Premier 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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2009145

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Page 1 of 1

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	X		
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					

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

Sample Receipt Checklist

S2 Work Order 2009145

Client: Crestone Peak

Client Project ID: NORTH Runn 2-6-9

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other Airbill #: _____

Matrix (check all that apply): Air Soil/Solid X Water Other: _____
(Describe)

Temp (°C) 3.7

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ?				
NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun.	X			
Were all samples received intact ⁽¹⁾ ?	X			
Was adequate sample volume provided ⁽¹⁾ ?	X			
If custody seals are present, are they intact ⁽¹⁾ ?			X	
Are samples with holding times due within 48 hours sample due within 48 hours present?		X		
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	X			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	X			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	X			
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	X			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			X	
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ?	X			HNO3
Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect				
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ?	X			pH
Record the pH in Comments.				
If dissolved metals are requested, were samples field filtered?		X	X	

Additional Comments (if any):

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.

Custodian Printed Name or Initials

Signature of Custodian

Date/Time

09/14/2020



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Surface Casing
2009145-01 (Water)

Summit Scientific

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
Surrogate: 1,2-Dichloroethane-d4	1220 %	23-173	"	"	"	"	"	"	S-02
Surrogate: Toluene-d8	125 %	20-170	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	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
Surrogate: o-Terphenyl	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)

Summit Scientific

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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Reported:
09/22/20 15:39

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

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	"							
Surrogate: 1,2-Dichloroethane-d4	12.9		"	13.3		97.1	23-173			
Surrogate: Toluene-d8	13.7		"	13.3		103	20-170			
Surrogate: 4-Bromofluorobenzene	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			
Surrogate: 1,2-Dichloroethane-d4	13.5		"	13.3		101	23-173			
Surrogate: Toluene-d8	14.3		"	13.3		107	20-170			
Surrogate: 4-Bromofluorobenzene	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			
Surrogate: 1,2-Dichloroethane-d4	13.8		"	13.3		104	23-173			
Surrogate: Toluene-d8	14.0		"	13.3		105	20-170			
Surrogate: 4-Bromofluorobenzene	12.9		"	13.3		96.9	21-167			

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Project Manager: Brent Hedstrom

Reported:
09/22/20 15:39

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

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

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

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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Reported:
09/22/20 15:39

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

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