

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

December 01, 2020

Brent Hedstrom

Crestone Peak Resources

2020 E. Grand Avenue, Suite 515

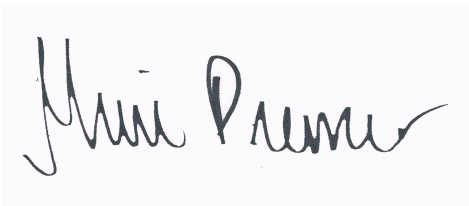
Laramie, WY 82070

RE: Grant Hurt IE-14H

Work Order # 2011144

Enclosed are the results of analyses for samples received by Summit Scientific on 11/12/20 11:10. 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, stylized initial "M".

Muri Premer For Paul Shrewsbury

President



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

Project: Grant Hurt IE-14H

Project Number: [none]
Project Manager: Brent Hedstrom

Reported:
12/01/20 10:56

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Surface casing	2011144-01	Water	11/05/20 00:00	11/12/20 11:10

Summit Scientific

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2011144

S₂

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

LOE C74458 Code 8503 COGCC 434317



Phone: 303-434-3007

Project Name: Grant Hurt 1E-14H

Sampler Name:

Project Number:

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	11/5/2020		1		X	X			X				X	X	X	X	X	X	X	
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					

Relinquished by: 	Date/Time: 11/12/20 1110	Received by: 	Date/Time: 11-12-20 11:10	Turn Around Time (Check) Same Day ___ 72 hours 24 hours ___ Standard <input checked="" type="checkbox"/> 48 hours ___ Sample Integrity: Temperature Upon Receipt: 6.2 Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No	Notes: VERY LOW VOLUME
Relinquished by:	Date/Time:	Received by:	Date/Time:		
Relinquished by:	Date/Time:	Received by:	Date/Time:		

Sample Receipt Checklist

S2 Work Order 2011144

Client: Crestone Peak Resources Client Project ID: Grant Hurt 1E-14H

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

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

Temp (°C)	6.2
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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.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	On Ice
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	low volume
If custody seals are present, are they intact ⁽¹⁾ ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples with holding times due within 48 hours sample due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	anions
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ? Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	HNO3
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ? Record the pH in Comments.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	add @ lab
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Additional Comments (if any):

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

MP
Custodian Printed Name or Initials

Muri Premer
Signature of Custodian

11/12/20
Date/Time



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Surface casing

2011144-01 (Water)

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Total Metals by EPA Method 200.8

Date Sampled: **11/05/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	1250	500	ug/l	10	BDK0168	11/16/20	11/16/20	EPA 200.8	
Magnesium	ND	50.0	"	1	"	"	"	"	
Potassium	153000	500	"	10	"	"	"	"	
Sodium	167000	500	"	"	"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **11/05/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sulfate	38.6	6.00	mg/L	20	BDK0156	11/16/20	11/16/20	EPA 300.0	
Chloride	14.6	12.0	"	200	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **11/05/20 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Total Dissolved Solids	1440	10.0	mg/L	1	BDK0160	11/13/20	11/13/20	SM2540C	I-03

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Reported:
 12/01/20 10:56

Total Metals by EPA Method 200.8 - Quality Control

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

Batch BDK0168 - EPA 200.8

Blank (BDK0168-BLK1)

Prepared & Analyzed: 11/16/20

Calcium	ND	50.0	ug/l								
Magnesium	ND	50.0	"								
Potassium	ND	50.0	"								
Sodium	ND	50.0	"								

LCS (BDK0168-BS1)

Prepared & Analyzed: 11/16/20

Calcium	5300	50.0	ug/l	5000		106	85-115				
Magnesium	4470	50.0	"	5000		89.4	85-115				
Potassium	4330	50.0	"	5000		86.5	85-115				
Sodium	4260	50.0	"	5000		85.2	85-115				

Duplicate (BDK0168-DUP1)

Source: 2011178-01

Prepared & Analyzed: 11/16/20

Calcium	6060	50.0	ug/l		6120			0.927	20		
Magnesium	12000	50.0	"		11700			2.35	20		
Potassium	4360	50.0	"		5230			18.2	20		
Sodium	255000	50.0	"		330000			25.8	20		QM-02

Matrix Spike (BDK0168-MS1)

Source: 2011178-01

Prepared & Analyzed: 11/16/20

Calcium	11600	50.0	ug/l	5000	6120	109	70-130				
Magnesium	15600	50.0	"	5000	11700	77.6	70-130				
Potassium	11300	50.0	"	5000	5230	122	70-130				
Sodium	214000	50.0	"	5000	330000	NR	70-130				QM-02

Matrix Spike Dup (BDK0168-MSD1)

Source: 2011178-01

Prepared & Analyzed: 11/16/20

Calcium	11500	50.0	ug/l	5000	6120	108	70-130	0.436	25		
Magnesium	16400	50.0	"	5000	11700	93.6	70-130	4.99	25		
Potassium	9810	50.0	"	5000	5230	91.6	70-130	14.4	25		
Sodium	254000	50.0	"	5000	330000	NR	70-130	17.1	25		QM-02

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Anions by EPA Method 300.0 - Quality Control
Summit Scientific

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

Batch BDK0156 - General Preparation

Blank (BDK0156-BLK1)

Prepared & Analyzed: 11/16/20

Sulfate	ND	0.300	mg/L						
Chloride	ND	0.0600	"						

LCS (BDK0156-BS1)

Prepared & Analyzed: 11/16/20

Sulfate	15.8	0.300	mg/L	15.0	105	90-110			
Chloride	2.97	0.0600	"	3.00	99.0	90-110			

Duplicate (BDK0156-DUP1)

Source: 2011144-01

Prepared & Analyzed: 11/16/20

Chloride	13.4	12.0	mg/L		14.6		8.57	20	
Sulfate	38.2	60.0	"		38.6		1.04	20	

Matrix Spike (BDK0156-MS1)

Source: 2011144-01

Prepared & Analyzed: 11/16/20

Sulfate	3060	60.0	mg/L	3000	38.6	101	80-120		
Chloride	569	12.0	"	600	14.6	92.4	80-120		

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Total Dissolved Solids by SM2540C - Quality Control
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Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

Batch BDK0160 - General Preparation

Blank (BDK0160-BLK1)

Prepared & Analyzed: 11/13/20

Total Dissolved Solids ND 10.0 mg/L

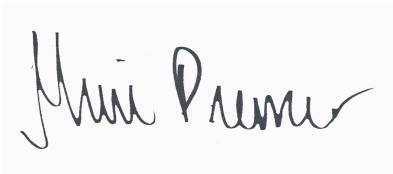
Duplicate (BDK0160-DUP1)

Source: 2011144-01

Prepared & Analyzed: 11/13/20

Total Dissolved Solids 1440 10.0 mg/L 1440 0.0696 20

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Notes and Definitions

- QM-02 The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
- 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