



Analytical Report 619475

for

Crestone Peak Resources

Project Manager: Brent Hedstrom

Woolley Becky and Morgan Hills

04.07.2019

Collected By: Client



**4147 Greenbriar Dr.
Stafford, TX 77477**

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-18-28), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-18-17), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-18-18)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757)
Xenco-Atlanta (LELAP Lab ID #04176)
Xenco-Tampa: Florida (E87429), North Carolina (483)
Xenco-Lakeland: Florida (E84098)



04.07.2019

Project Manager: **Brent Hedstrom**

Crestone Peak Resources

10188 E I-25 Frontage Road

Longmont, CO 80504

Reference: XENCO Report No(s): **619475**

Woolley Becky and Morgan Hills

Project Address:

Brent Hedstrom:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 619475. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 619475 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

A handwritten signature in black ink that reads 'Wendy Walfoort'. The signature is written in a cursive, flowing style.

Wendy Walfoort

Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico



Sample Cross Reference 619475

Crestone Peak Resources, Longmont, CO

Woolley Becky and Morgan Hills

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Woolley Beck 2A-7H	W	03.26.2019 09:35		619475-001
Morgan Hills 1D-7H	W	03.25.2019 09:40		619475-002
Trip Blank	W	03.25.2019 00:00		Not Analyzed



CASE NARRATIVE

Client Name: Crestone Peak Resources

Project Name: Woolley Becky and Morgan Hills

Project ID:

Work Order Number(s): 619475

Report Date: 04.07.2019

Date Received: 03.28.2019

Sample receipt non conformances and comments:

Unable to analyze for TDS and alkalinity due to the samples being a product.

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results 619475

Crestone Peak Resources, Longmont, CO

Woolley Becky and Morgan Hills

Sample Id: **Woolley Beck 2A-7H**

Matrix: Product

Date Received: 03.28.2019 10:00

Lab Sample Id: 619475-001

Date Collected: 03.26.2019 09:35

Analytical Method: Anions by EPA 300

Prep Method: E300P

Tech: JYM

% Moisture:

Analyst: JYM

Date Prep: 04.01.2019 15:39

Basis: Wet Weight

Seq Number: 3084147

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	22.3	10.0	mg/kg	04.01.2019 23:05		1
Sulfate	14808-79-8	<10.0	10.0	mg/kg	04.01.2019 23:05	U	1

Analytical Method: ICP Metals by SW6010B

Prep Method: SW3050B

Tech: PJB

% Moisture:

Analyst: DEP

Date Prep: 04.03.2019 11:30

Basis: Wet Weight

Seq Number: 3084594

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Calcium	7440-70-2	533	18.2	mg/kg	04.04.2019 11:55		1
Magnesium	7439-95-4	<36.4	36.4	mg/kg	04.04.2019 11:55	U	1
Potassium	7440-09-7	<45.5	45.5	mg/kg	04.04.2019 11:55	U	1
Sodium	7440-23-5	<45.5	45.5	mg/kg	04.04.2019 11:55	U	1

Analytical Method: BTEX by SW 8260B

Prep Method: SW5035A

Tech: CRL

% Moisture:

Analyst: CRL

Date Prep: 04.03.2019 12:50

Basis: Wet Weight

Seq Number: 3084482

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	2.41	0.498	mg/kg	04.03.2019 19:49		500
Toluene	108-88-3	12.4	0.498	mg/kg	04.03.2019 19:49		500
Ethylbenzene	100-41-4	3.85	0.498	mg/kg	04.03.2019 19:49		500
m,p-Xylenes	179601-23-1	21.8	0.996	mg/kg	04.03.2019 19:49		500
o-Xylene	95-47-6	8.12	0.498	mg/kg	04.03.2019 19:49		500
Total Xylenes	1330-20-7	29.9	0.498	mg/kg	04.03.2019 19:49		500
Total BTEX		48.6	0.498	mg/kg	04.03.2019 19:49		500

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	94	%	73-132	04.03.2019 19:49	
1,2-Dichloroethane-D4	17060-07-0	101	%	73-124	04.03.2019 19:49	
Toluene-D8	2037-26-5	105	%	69-124	04.03.2019 19:49	
4-Bromofluorobenzene	460-00-4	103	%	58-152	04.03.2019 19:49	



Certificate of Analytical Results 619475

Crestone Peak Resources, Longmont, CO

Woolley Becky and Morgan Hills

Sample Id: **Morgan Hills 1D-7H**

Matrix: Product

Date Received: 03.28.2019 10:00

Lab Sample Id: 619475-002

Date Collected: 03.25.2019 09:40

Analytical Method: Anions by EPA 300

Prep Method: E300P

Tech: JYM

% Moisture:

Analyst: JYM

Date Prep: 04.01.2019 15:39

Basis: Wet Weight

Seq Number: 3084147

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3520	9.94	mg/kg	04.01.2019 23:14		1
Sulfate	14808-79-8	44.5	9.94	mg/kg	04.01.2019 23:14		1

Analytical Method: ICP Metals by SW6010B

Prep Method: SW3050B

Tech: PJB

% Moisture:

Analyst: DEP

Date Prep: 04.03.2019 11:30

Basis: Wet Weight

Seq Number: 3084594

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Calcium	7440-70-2	299	18.2	mg/kg	04.04.2019 11:59		1
Magnesium	7439-95-4	<36.4	36.4	mg/kg	04.04.2019 11:59	U	1
Potassium	7440-09-7	<45.5	45.5	mg/kg	04.04.2019 11:59	U	1
Sodium	7440-23-5	<45.5	45.5	mg/kg	04.04.2019 11:59	U	1

Analytical Method: BTEX by SW 8260B

Prep Method: SW5035A

Tech: CRL

% Moisture:

Analyst: CRL

Date Prep: 04.04.2019 15:30

Basis: Wet Weight

Seq Number: 3084679

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.680	0.248	mg/kg	04.05.2019 01:53		250
Toluene	108-88-3	5.01	0.248	mg/kg	04.05.2019 01:53		250
Ethylbenzene	100-41-4	3.88	0.248	mg/kg	04.05.2019 01:53		250
m,p-Xylenes	179601-23-1	16.0	0.496	mg/kg	04.05.2019 01:53		250
o-Xylene	95-47-6	8.13	0.248	mg/kg	04.05.2019 01:53		250
Total Xylenes	1330-20-7	24.1	0.248	mg/kg	04.05.2019 01:53		250
Total BTEX		33.7	0.248	mg/kg	04.05.2019 01:53		250

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	92	%	73-132	04.05.2019 01:53	
1,2-Dichloroethane-D4	17060-07-0	97	%	73-124	04.05.2019 01:53	
Toluene-D8	2037-26-5	104	%	69-124	04.05.2019 01:53	
4-Bromofluorobenzene	460-00-4	103	%	58-152	04.05.2019 01:53	

Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



QC Summary 619475

Crestone Peak Resources Woolley Becky and Morgan Hills

Analytical Method: Anions by EPA 300

Seq Number: 3084147

MB Sample Id: 7674769-1-BLK

Matrix: Solid

LCS Sample Id: 7674769-1-BKS

Prep Method: E300P

Date Prep: 04.01.2019

LCSD Sample Id: 7674769-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	100	102	102	105	105	80-120	3	20	mg/kg	04.01.2019 17:39	
Sulfate	<10.0	100	100	100	103	103	80-120	3	20	mg/kg	04.01.2019 17:39	

Analytical Method: Anions by EPA 300

Seq Number: 3084147

Parent Sample Id: 619059-009

Matrix: Soil

MS Sample Id: 619059-009 S

Prep Method: E300P

Date Prep: 04.01.2019

MSD Sample Id: 619059-009 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	25.6	100	128	102	128	102	80-120	0	20	mg/kg	04.01.2019 19:16	
Sulfate	18.2	100	118	100	118	100	80-120	0	20	mg/kg	04.01.2019 19:16	

Analytical Method: Anions by EPA 300

Seq Number: 3084147

Parent Sample Id: 619144-005

Matrix: Soil

MS Sample Id: 619144-005 S

Prep Method: E300P

Date Prep: 04.01.2019

MSD Sample Id: 619144-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	25.9	145	182	108	181	107	80-120	1	20	mg/kg	04.01.2019 21:28	
Sulfate	300	145	463	112	452	105	80-120	2	20	mg/kg	04.01.2019 21:28	

Analytical Method: ICP Metals by SW6010B

Seq Number: 3084594

MB Sample Id: 7674940-1-BLK

Matrix: Solid

LCS Sample Id: 7674940-1-BKS

Prep Method: SW3050B

Date Prep: 04.03.2019

LCSD Sample Id: 7674940-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Calcium	<2.46	2500	2480	99	2450	98	75-125	1	20	mg/kg	04.04.2019 11:13	
Magnesium	<1.28	2500	2440	98	2420	97	75-125	1	20	mg/kg	04.04.2019 11:13	
Potassium	<5.45	1000	1020	102	1010	101	75-125	1	20	mg/kg	04.04.2019 11:13	
Sodium	<1.56	2500	2460	98	2430	97	75-125	1	20	mg/kg	04.04.2019 11:13	

Analytical Method: ICP Metals by SW6010B

Seq Number: 3084594

Parent Sample Id: 619635-001

Matrix: Soil

MS Sample Id: 619635-001 S

Prep Method: SW3050B

Date Prep: 04.03.2019

MSD Sample Id: 619635-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Calcium	222000	2160	218000	0	236000	593	75-125	8	20	mg/kg	04.04.2019 11:26	X
Magnesium	3030	2160	4660	75	5140	89	75-125	10	20	mg/kg	04.04.2019 11:26	
Potassium	1030	862	1840	94	2110	115	75-125	14	20	mg/kg	04.04.2019 11:26	
Sodium	845	2160	2730	87	3020	92	75-125	10	20	mg/kg	04.04.2019 11:26	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

Crestone Peak Resources
Woolley Becky and Morgan Hills

Analytical Method: BTEX by SW 8260B

Seq Number: 3084482

MB Sample Id: 7674955-1-BLK

Matrix: Solid

LCS Sample Id: 7674955-1-BKS

Prep Method: SW5035A

Date Prep: 04.03.2019

LCSD Sample Id: 7674955-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00100	0.0500	0.0470	94	0.0471	94	62-132	0	25	mg/kg	04.03.2019 12:31	
Toluene	<0.00100	0.0500	0.0479	96	0.0459	92	66-124	4	25	mg/kg	04.03.2019 12:31	
Ethylbenzene	<0.00100	0.0500	0.0486	97	0.0466	93	71-134	4	25	mg/kg	04.03.2019 12:31	
m,p-Xylenes	<0.00200	0.100	0.0975	98	0.0938	94	69-128	4	25	mg/kg	04.03.2019 12:31	
o-Xylene	<0.00100	0.0500	0.0489	98	0.0478	96	72-131	2	25	mg/kg	04.03.2019 12:31	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Dibromofluoromethane	96		102		105		73-132	%	04.03.2019 12:31
1,2-Dichloroethane-D4	103		104		103		73-124	%	04.03.2019 12:31
Toluene-D8	100		100		98		69-124	%	04.03.2019 12:31
4-Bromofluorobenzene	101		100		101		58-152	%	04.03.2019 12:31

Analytical Method: BTEX by SW 8260B

Seq Number: 3084679

MB Sample Id: 7675092-1-BLK

Matrix: Solid

LCS Sample Id: 7675092-1-BKS

Prep Method: SW5035A

Date Prep: 04.04.2019

LCSD Sample Id: 7675092-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00100	0.0500	0.0434	87	0.0482	96	62-132	10	25	mg/kg	04.04.2019 15:33	
Toluene	<0.00100	0.0500	0.0447	89	0.0492	98	66-124	10	25	mg/kg	04.04.2019 15:33	
Ethylbenzene	<0.00100	0.0500	0.0446	89	0.0488	98	71-134	9	25	mg/kg	04.04.2019 15:33	
m,p-Xylenes	<0.00200	0.100	0.0897	90	0.0981	98	69-128	9	25	mg/kg	04.04.2019 15:33	
o-Xylene	<0.00100	0.0500	0.0444	89	0.0487	97	72-131	9	25	mg/kg	04.04.2019 15:33	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Dibromofluoromethane	95		99		103		73-132	%	04.04.2019 15:33
1,2-Dichloroethane-D4	104		95		94		73-124	%	04.04.2019 15:33
Toluene-D8	99		100		100		69-124	%	04.04.2019 15:33
4-Bromofluorobenzene	101		101		102		58-152	%	04.04.2019 15:33

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference $[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD ResultMS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



QC Summary 619475

Crestone Peak Resources Woolley Becky and Morgan Hills

Analytical Method: BTEX by SW 8260B

Seq Number: 3084482

Parent Sample Id: 619454-002

Matrix: Soil

MS Sample Id: 619454-002 S

Prep Method: SW5035A

Date Prep: 04.03.2019

MSD Sample Id: 619454-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000998	0.0499	0.0505	101	0.0492	99	62-132	3	25	mg/kg	04.03.2019 13:13	
Toluene	<0.000998	0.0499	0.0494	99	0.0484	97	66-124	2	25	mg/kg	04.03.2019 13:13	
Ethylbenzene	0.000734	0.0499	0.0456	90	0.0455	90	71-134	0	25	mg/kg	04.03.2019 13:13	
m,p-Xylenes	0.00310	0.0998	0.0926	90	0.0919	89	69-128	1	25	mg/kg	04.03.2019 13:13	
o-Xylene	0.000992	0.0499	0.0451	88	0.0445	88	72-131	1	25	mg/kg	04.03.2019 13:13	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
Dibromofluoromethane	106		105		73-132	%	04.03.2019 13:13
1,2-Dichloroethane-D4	104		103		73-124	%	04.03.2019 13:13
Toluene-D8	103		101		69-124	%	04.03.2019 13:13
4-Bromofluorobenzene	110		112		58-152	%	04.03.2019 13:13

Analytical Method: BTEX by SW 8260B

Seq Number: 3084679

Parent Sample Id: 619454-001

Matrix: Soil

MS Sample Id: 619454-001 S

Prep Method: SW5035A

Date Prep: 04.04.2019

MSD Sample Id: 619454-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000994	0.0497	0.0428	86	0.0483	97	62-132	12	25	mg/kg	04.04.2019 16:15	
Toluene	<0.000994	0.0497	0.0426	86	0.0490	99	66-124	14	25	mg/kg	04.04.2019 16:15	
Ethylbenzene	0.00103	0.0497	0.0411	81	0.0478	94	71-134	15	25	mg/kg	04.04.2019 16:15	
m,p-Xylenes	0.00559	0.0994	0.0861	81	0.101	96	69-128	16	25	mg/kg	04.04.2019 16:15	
o-Xylene	0.00169	0.0497	0.0412	79	0.0486	94	72-131	16	25	mg/kg	04.04.2019 16:15	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
Dibromofluoromethane	108		106		73-132	%	04.04.2019 16:15
1,2-Dichloroethane-D4	102		105		73-124	%	04.04.2019 16:15
Toluene-D8	102		102		69-124	%	04.04.2019 16:15
4-Bromofluorobenzene	106		110		58-152	%	04.04.2019 16:15

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

619475

9748 Whithorn Drive, Houston, Texas 77095
Main - 281-856-9333

GEOMARK

Chain of Custody

**Project
Information:**

Brent Hedstrom
Crestone Peak Resources
Field Operations Technician
Mobile 303-434-3007

Authorized by:

**Shipping
Information:**

GeoMark Research, Ltd.
9748 Whithorn Drive
Houston, Texas 77095

Attn:

Sample Summary

Material Shipped/Received	# Of Samples	COGCC (Required)	Billing Information	Analysis Requested
Woolley Becky 2A-7H	3	434340	C75027	See attached form from COGCC guidelines for testing required.
Morgan Hills 1D-7H	3	446285	C81174	See attached form from COGCC guidelines for testing required.
				See attached form from COGCC guidelines for testing required.
				See attached form from COGCC guidelines for testing required.
				See attached form from COGCC guidelines for testing required.
				See attached form from COGCC guidelines for testing required.
				See attached form from COGCC guidelines for testing required.

Purpose for Release: Analysis on sampling

Date Released: _____

Date Received: _____

Released by: Brent Hedstrom

Received by: Rel Fed Ex

Company: Crestone Peak Resources

Company: _____

Signature: [Signature] 3/28/19 10:00

Signature: _____

IR ID: HOU-068 C/F: -0.1
Temp: 4.2 Corrected: 4.1

ORIGIN ID: FNLK (303) 774-3919
BRENT HEDSTROM
CRESTONE PEAK RESOURCES
10188 E-125 FRONTAGE ROAD
FIRESTONE, CO 80504

SHIP DATE: 27MAR19
ACTWGT: 25.00 LB
CAD: 110304830/IN/E14100
DIMS: 24x14x15 IN

UNITED STATES US

BILL SENDER

TO **SAMPLE CUSTODY**

XENCO HOUSTON
4147 GREENBRIAR DRIVE

STAFFORD TX 77477

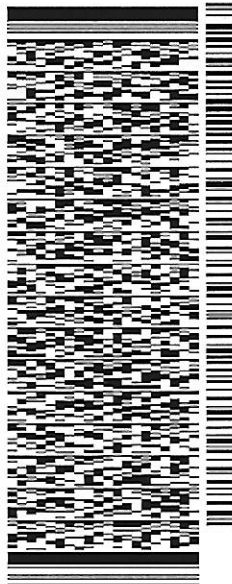
(281) 240-4200

REF:

PO:

DEPT:

565J1146D3/23AD



J151013010701uv

TRK# 7748 1135 4097
0201

THU - 28 MAR 3:00P
STANDARD OVERNIGHT

ABSGRA

TX-US

77477

IAH



After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

XENCO Laboratories
Prelogin/Nonconformance Report- Sample Log-In

Client: Crestone Peak Resources

Date/ Time Received: 03.28.2019 10.00.00 AM

Work Order #: 619475

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : hou-068

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	4.1
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6 *Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	Yes 2 trip blank extra
#9 Chain of Custody signed when relinquished/ received?	No
#10 Chain of Custody agrees with sample labels/matrix?	No pulled sampling dates and time from containers: "Woolley 3/26/2019 9:35" "Morgan 3/25/2019 9:40"
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	No Preserved for metals: HNO3 lot# 5152521-1 on 3/29/19 @ 11:00
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	No
#18 Water VOC samples have zero headspace?	Yes

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: heg

PH Device/Lot#: 10bdh0681

Checklist completed by: Heidi Mathews
Heidi Mathews

Date: 03.29.2019

Checklist reviewed by: Wendy Walfoort
Wendy Walfoort

Date: 04.03.2019