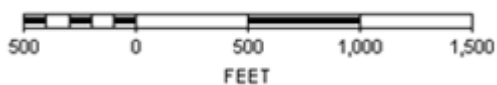


SCALE 1 : 9,000



LEGEND



Site Location

N



Figure 1
Location Site Map
May 29, 2020 LBK

State Pronghorn 44-32
Facility ID: 441121
SESE Sec 32, T5N, R61W, 6th PM
Weld County, Colorado



Aerial photograph courtesy of Google Earth Pro

LEGEND



Release Location



Release Footprint

N



Figure 2
Site Map
June 8, 2020 LBK

State Pronghorn 44-32
Facility ID: 441121
SESE Sec 32, T5N, R61W, 6th PM
Weld County, Colorado

TABLE 1
SOIL ANALYTICAL RESULTS
STATE PRONGHORN 44-32
WELD COUNTY, COLORADO
BONANZA CREEK ENERGY OPERATING COMPANY LLC.

Parameters		COGCC Table 910-1 Concentration Level	SS01	SS02	SS03	SS04	SS05
Sample Date			6/8/2020	6/8/2020	6/8/2020	6/8/2020	6/8/2020
Sample Depth (Feet)			8-9	8-9	8-9	8-9	10-11
BTEX	Benzene	0.17	<0.002	<0.002	<0.002	<0.002	<0.002
	Toluene	85	<0.002	<0.002	<0.002	<0.002	<0.002
	Ethylbenzene	100	<0.002	<0.002	<0.002	<0.002	<0.002
	Total Xylenes	175	<0.002	<0.002	<0.002	<0.002	<0.002
TPH	DRO	--	<50	<50	<50	<50	<50
	GRO	--	<50	<50	<50	<50	<50
	Total	500	<50	<50	<50	<50	<50

Notes:

COGCC - Colorado Oil and Gas Conservation Commission

-- - no concentration level is available

BTEX - benzene, toluene, ethylbenzene, xylenes (total)

DRO - diesel range organics

GRO - gasoline range organics

TPH - total petroleum hydrocarbons

All results are in mg/kg unless stated otherwise.



June 15, 2020

Bonanza Creek Energy, Inc.

Luke Kelly

410 17th St, Suite 1400

Denver

CO 80211

Project Name - State Pronghorn 44-32

Project Number - [none]

Attached are your analytical results for State Pronghorn 44-32 received by Origins Laboratory, Inc. June 08, 2020. This project is associated with Origins project number Y006164-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Bonanza Creek Energy, Inc.

410 17th St, Suite 1400

Denver CO 80211

Luke Kelly

Project Number: [none]

Project: State Pronghorn 44-32

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01 (N) 8-9'	Y006164-01	Soil	June 8, 2020 8:30	06/08/2020 16:25
SS02 (E) 10-11'	Y006164-02	Soil	June 8, 2020 8:35	06/08/2020 16:25
SS03 (S) 8-9'	Y006164-03	Soil	June 8, 2020 8:40	06/08/2020 16:25
SS04 (W) 8-9'	Y006164-04	Soil	June 8, 2020 8:45	06/08/2020 16:25
SS05 (B) 10-11'	Y006164-05	Soil	June 8, 2020 8:50	06/08/2020 16:25

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jordan A. Merrill For Noelle Doyle Mathis, President

Bonanza Creek Energy, Inc.

410 17th St, Suite 1400

Denver CO 80211

Luke Kelly

Project Number: [none]

Project: State Pronghorn 44-32

Origins Laboratory

F-012207-01-R1
Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: Y006164

Client: Bonanza Creek
Client Project ID: State Pronghorn 44-32

Checklist Completed by: KDK

Date/time completed: 06-09-2020

Shipped Via: HD
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
Airbill #: N/A

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid ☐ Water ☐ Other: _____

Cooler Number/Temperature: 01, 27.3 c / _____ °C / _____ °C (Describe) _____ °C

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?		<input checked="" type="checkbox"/>		Same Day
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)			<input checked="" type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)			<input checked="" type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?			<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity) / (pH < 2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

⁽¹⁾If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by: Jm (Project Manager)

Date/Time Reviewed: 6-10-20

Origins Laboratory, Inc.

Jm

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bonanza Creek Energy, Inc.

410 17th St, Suite 1400

Denver CO 80211

Luke Kelly

Project Number: [none]

Project: State Pronghorn 44-32

SS01 (N) 8-9'

6/8/2020 8:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.

Y006164-01 (Soil)

BTEX by EPA 8260D

Benzene	ND	0.002	mg/kg	1	B0F0901	KDK	06/09/2020	06/09/2020	U
Toluene	ND	0.002	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.002	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4

101 %

70-130

"

"

"

Surrogate: Toluene-d8

99.7 %

70-130

"

"

"

Surrogate: 4-Bromofluorobenzene

101 %

70-130

"

"

"

TPH-Carbon Chain by EPA 8015D

Gasoline (C6-C10)	ND	50.0	mg/kg	1	B0F0902	KDK	06/09/2020	06/09/2020	U
Diesel (C10-C28)	ND	50.0	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl

87.6 %

50-150

"

"

"

Origins Laboratory, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bonanza Creek Energy, Inc.

410 17th St, Suite 1400

Denver CO 80211

Luke Kelly

Project Number: [none]

Project: State Pronghorn 44-32

SS02 (E) 10-11'

6/8/2020 8:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.

Y006164-02 (Soil)

BTEX by EPA 8260D

Benzene	ND	0.002	mg/kg	1	B0F0901	KDK	06/09/2020	06/09/2020	U
Toluene	ND	0.002	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.002	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4

101 %

70-130

"

"

"

Surrogate: Toluene-d8

99.7 %

70-130

"

"

"

Surrogate: 4-Bromofluorobenzene

101 %

70-130

"

"

"

TPH-Carbon Chain by EPA 8015D

Gasoline (C6-C10)	ND	50.0	mg/kg	1	B0F0902	KDK	06/09/2020	06/09/2020	U
Diesel (C10-C28)	ND	50.0	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl

85.0 %

50-150

"

"

"

Origins Laboratory, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bonanza Creek Energy, Inc.

410 17th St, Suite 1400

Denver CO 80211

Luke Kelly

Project Number: [none]

Project: State Pronghorn 44-32

SS03 (S) 8-9'

6/8/2020 8:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.

Y006164-03 (Soil)

BTEX by EPA 8260D

Benzene	ND	0.002	mg/kg	1	B0F0901	KDK	06/09/2020	06/09/2020	U
Toluene	ND	0.002	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.002	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4

101 %

70-130

"

"

"

Surrogate: Toluene-d8

99.5 %

70-130

"

"

"

Surrogate: 4-Bromofluorobenzene

101 %

70-130

"

"

"

TPH-Carbon Chain by EPA 8015D

Gasoline (C6-C10)	ND	50.0	mg/kg	1	B0F0902	KDK	06/09/2020	06/09/2020	U
Diesel (C10-C28)	ND	50.0	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl

93.0 %

50-150

"

"

"

Origins Laboratory, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bonanza Creek Energy, Inc.

410 17th St, Suite 1400

Denver CO 80211

Luke Kelly

Project Number: [none]

Project: State Pronghorn 44-32

SS04 (W) 8-9'

6/8/2020 8:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.

Y006164-04 (Soil)

BTEX by EPA 8260D

Benzene	ND	0.002	mg/kg	1	B0F0901	KDK	06/09/2020	06/09/2020	U
Toluene	ND	0.002	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.002	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4

102 %

70-130

"

"

"

Surrogate: Toluene-d8

99.4 %

70-130

"

"

"

Surrogate: 4-Bromofluorobenzene

103 %

70-130

"

"

"

TPH-Carbon Chain by EPA 8015D

Gasoline (C6-C10)	ND	50.0	mg/kg	1	B0F0902	KDK	06/09/2020	06/09/2020	U
Diesel (C10-C28)	ND	50.0	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl

67.3 %

50-150

"

"

"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bonanza Creek Energy, Inc.

410 17th St, Suite 1400

Denver CO 80211

Luke Kelly

Project Number: [none]

Project: State Pronghorn 44-32

SS05 (B) 10-11'

6/8/2020 8:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.

Y006164-05 (Soil)

BTEX by EPA 8260D

Benzene	ND	0.002	mg/kg	1	B0F0901	KDK	06/09/2020	06/10/2020	U
Toluene	ND	0.002	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.002	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4

98.9 % 70-130

" " "

Surrogate: Toluene-d8

98.7 % 70-130

" " "

Surrogate: 4-Bromofluorobenzene

101 % 70-130

" " "

TPH-Carbon Chain by EPA 8015D

Gasoline (C6-C10)	ND	50.0	mg/kg	1	B0F0902	KDK	06/09/2020	06/09/2020	U
Diesel (C10-C28)	ND	50.0	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl

62.6 % 50-150

" " "

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bonanza Creek Energy, Inc.

410 17th St, Suite 1400

Denver CO 80211

Luke Kelly

Project Number: [none]

Project: State Pronghorn 44-32

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

Origins Laboratory, Inc.

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

Batch B0F0901 - EPA 5030 (soil)

Blank (B0F0901-BLK1)

Prepared: 06/09/2020 Analyzed: 06/09/2020

Benzene	ND	0.002	mg/kg							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.6	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bonanza Creek Energy, Inc.

410 17th St, Suite 1400

Denver CO 80211

Luke Kelly

Project Number: [none]

Project: State Pronghorn 44-32

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

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

Batch B0F0901 - EPA 5030 (soil)

LCS (B0F0901-BS1)

Prepared: 06/09/2020 Analyzed: 06/09/2020

Benzene	0.045	0.002	mg/kg	0.0500		90.5	70-130			
Toluene	0.046	0.002	"	0.0500		91.7	70-130			
Ethylbenzene	0.050	0.002	"	0.0500		100	70-130			
m,p-Xylene	0.102	0.004	"	0.100		102	70-130			
o-Xylene	0.050	0.002	"	0.0500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.9	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bonanza Creek Energy, Inc.

410 17th St, Suite 1400

Denver CO 80211

Luke Kelly

Project Number: [none]

Project: State Pronghorn 44-32

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

Origins Laboratory, Inc.

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

Batch B0F0901 - EPA 5030 (soil)

Matrix Spike (B0F0901-MS1)		Source: Y006164-01			Prepared: 06/09/2020 Analyzed: 06/09/2020					
Benzene	0.046	0.002	mg/kg	0.0500	ND	92.7	70-130			
Toluene	0.048	0.002	"	0.0500	ND	95.6	70-130			
Ethylbenzene	0.051	0.002	"	0.0500	ND	103	70-130			
m,p-Xylene	0.105	0.004	"	0.100	ND	105	70-130			
o-Xylene	0.052	0.002	"	0.0500	ND	104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bonanza Creek Energy, Inc.

410 17th St, Suite 1400

Denver CO 80211

Luke Kelly

Project Number: [none]

Project: State Pronghorn 44-32

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

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

Batch B0F0901 - EPA 5030 (soil)

Matrix Spike Dup (B0F0901-MSD1)		Source: Y006164-01			Prepared: 06/09/2020 Analyzed: 06/09/2020					
Benzene	0.041	0.002	mg/kg	0.0500	ND	82.2	70-130	11.9	20	
Toluene	0.041	0.002	"	0.0500	ND	81.6	70-130	15.7	20	
Ethylbenzene	0.041	0.002	"	0.0500	ND	81.8	70-130	22.7	20	QR-02
m,p-Xylene	0.083	0.004	"	0.100	ND	82.9	70-130	23.4	20	QR-02
o-Xylene	0.041	0.002	"	0.0500	ND	82.5	70-130	23.2	20	QR-02
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.0	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bonanza Creek Energy, Inc.

410 17th St, Suite 1400

Denver CO 80211

Luke Kelly

Project Number: [none]

Project: State Pronghorn 44-32

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

Origins Laboratory, Inc.

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

Batch B0F0902 - EPA 3580

Blank (B0F0902-BLK1)

Prepared: 06/09/2020 Analyzed: 06/09/2020

Gasoline (C6-C10)	ND	25.0	mg/kg							U
Diesel (C10-C28)	ND	25.0	"							U
Surrogate: o-Terphenyl	14.9		"	25.0		59.4	50-150			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bonanza Creek Energy, Inc.

410 17th St, Suite 1400

Denver CO 80211

Luke Kelly

Project Number: [none]

Project: State Pronghorn 44-32

Extractable Petroleum Hydrocarbons by 8015D - Quality Control

Origins Laboratory, Inc.

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

Batch B0F0902 - EPA 3580

LCS (B0F0902-BS1)

Prepared: 06/09/2020 Analyzed: 06/09/2020

Gasoline (C6-C10)	938	50.0	mg/kg	1000		93.8	70-130			
Diesel (C10-C28)	1010	50.0	"	1000		101	70-130			
Surrogate: o-Terphenyl	43.0		"	50.0		86.1	50-150			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bonanza Creek Energy, Inc.

410 17th St, Suite 1400

Denver CO 80211

Luke Kelly

Project Number: [none]

Project: State Pronghorn 44-32

Extractable Petroleum Hydrocarbons by 8015D - Quality Control

Origins Laboratory, Inc.

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

Batch B0F0902 - EPA 3580

Matrix Spike (B0F0902-MS1)		Source: Y006162-01			Prepared: 06/09/2020 Analyzed: 06/09/2020					
Gasoline (C6-C10)	980	50.0	mg/kg	1000	ND	98.0	70-130			
Diesel (C10-C28)	1040	50.0	"	1000	ND	104	70-130			
Surrogate: o-Terphenyl	43.8		"	50.0		87.7	50-150			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bonanza Creek Energy, Inc.

410 17th St, Suite 1400

Denver CO 80211

Luke Kelly

Project Number: [none]

Project: State Pronghorn 44-32

Extractable Petroleum Hydrocarbons by 8015D - Quality Control

Origins Laboratory, Inc.

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

Batch B0F0902 - EPA 3580

Matrix Spike Dup (B0F0902-MSD1)		Source: Y006162-01			Prepared: 06/09/2020 Analyzed: 06/09/2020					
Gasoline (C6-C10)	982	50.0	mg/kg	1000	ND	98.2	70-130	0.197	35	
Diesel (C10-C28)	1050	50.0	"	1000	ND	105	70-130	1.57	35	
Surrogate: o-Terphenyl	41.6		"	50.0		83.1	50-150			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bonanza Creek Energy, Inc.

410 17th St, Suite 1400

Denver CO 80211

Luke Kelly

Project Number: [none]

Project: State Pronghorn 44-32

Notes and Definitions

U Sample is Non-Detect.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.

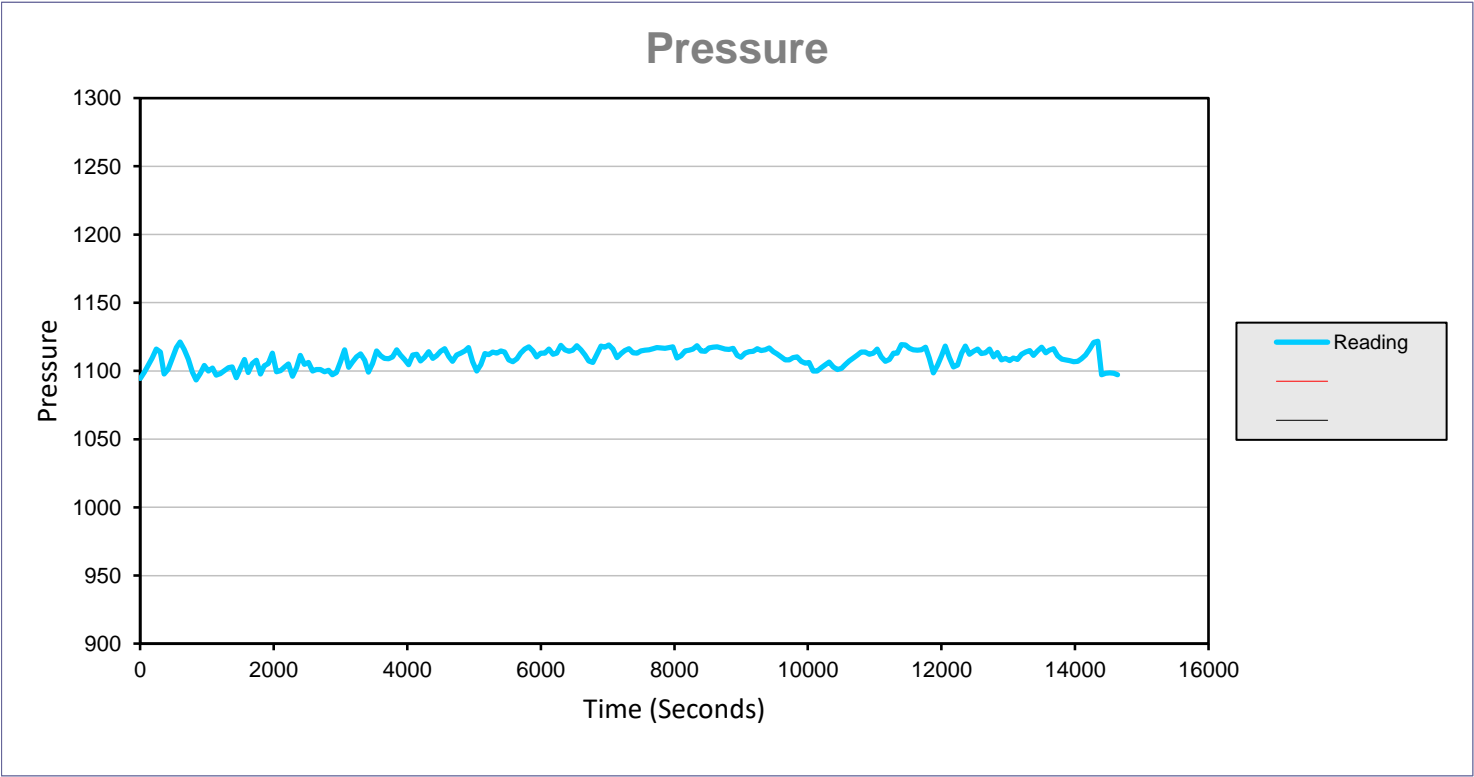


The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Data Collection Report

Gauge Information	
Serial Number	6379
Model	2KPSIXP2I
Message Store	-----
Units	PSI

Run Info	
Start Time	6/29/20 9:55:56 AM
Stop Time	6/29/20 2:00:24 PM
Logging Interval	60



Serial Number 6379
 Model 2KPSIXP2I
 Units PSI
 Firmware Version R0324 Message Store -----
 Run Index 2
 Logging Type Actual
 Logging Interval 60
 Start Time 6/29/2020 9:55
 Stop Time 6/29/2020 14:00
 Time Reading

Event Event Data
 Battery OK
 Logging Interval, 60
 Tare, -2.5

0	
0	
0	
0	1094.6
60	1099
120	1104
180	1109.6
240	1116
300	1113.8
360	1097.8
420	1101.4
480	1109.1
540	1117.1
600	1121.2
660	1115.8
720	1108.6
780	1099.1
840	1093.5
900	1098
960	1104
1020	1099.8
1080	1102
1140	1097
1200	1097.9
1260	1100.2
1320	1102.3
1380	1102.8
1440	1094.9
1500	1101.9
1560	1108.5
1620	1098.9
1680	1105.3
1740	1107.8
1800	1097.8
1860	1103.7
1920	1105.4
1980	1113.1
2040	1099.3
2100	1100.3
2160	1102.7
2220	1105.1

2280	1096.2
2340	1102.4
2400	1111.3
2460	1104.8
2520	1106.2
2580	1099.9
2640	1101
2700	1101.1
2760	1099.5
2820	1100.5
2880	1097.3
2940	1098.8
3000	1106.8
3060	1115.4
3120	1102.7
3180	1106.6
3240	1110.2
3300	1112.4
3360	1107.8
3420	1099.1
3480	1105.5
3540	1114.7
3600	1111
3660	1109.1
3720	1109
3780	1110.3
3840	1115.6
3900	1111.7
3960	1108.3
4020	1104.6
4080	1111.8
4140	1112.3
4200	1107.4
4260	1109.9
4320	1114
4380	1109.2
4440	1111.1
4500	1114.3
4560	1116.3
4620	1110.7
4680	1107.1
4740	1111.7
4800	1112.9
4860	1114.6
4920	1117
4980	1106.7
5040	1099.9
5100	1104.7
5160	1112.8
5220	1112
5280	1113.8

5340	1113
5400	1114.8
5460	1113.9
5520	1108.2
5580	1106.8
5640	1109
5700	1113
5760	1115.9
5820	1117.6
5880	1114.8
5940	1110.3
6000	1113.1
6060	1112.9
6120	1116
6180	1112.3
6240	1113
6300	1118.8
6360	1115.6
6420	1114.4
6480	1115.1
6540	1118.4
6600	1115.6
6660	1111.6
6720	1107.4
6780	1106.2
6840	1112.1
6900	1118.2
6960	1117.4
7020	1118.9
7080	1116.1
7140	1109.8
7200	1112.8
7260	1115
7320	1116.4
7380	1113.4
7440	1113.1
7500	1114.7
7560	1115.2
7620	1115.4
7680	1116.4
7740	1117.1
7800	1116.9
7860	1116.6
7920	1117
7980	1117.6
8040	1109.6
8100	1111.2
8160	1114.7
8220	1115.2
8280	1116.1
8340	1118.4

8400	1114.6
8460	1114.4
8520	1116.8
8580	1117.3
8640	1117.8
8700	1116.8
8760	1115.9
8820	1115.7
8880	1116.5
8940	1111.5
9000	1110
9060	1113.1
9120	1114.2
9180	1114.4
9240	1116.4
9300	1115
9360	1115.6
9420	1116.9
9480	1114
9540	1112.5
9600	1110.2
9660	1108
9720	1108
9780	1109.8
9840	1110.4
9900	1106.9
9960	1105.6
10020	1106.3
10080	1099.9
10140	1100
10200	1102.4
10260	1104.7
10320	1106.4
10380	1102.9
10440	1100.9
10500	1101.8
10560	1104.6
10620	1107.2
10680	1109.6
10740	1111.8
10800	1113.9
10860	1113.8
10920	1112.3
10980	1113
11040	1116.1
11100	1110.4
11160	1106.9
11220	1108.3
11280	1112.9
11340	1113.1
11400	1119.2

11460	1119
11520	1116.7
11580	1115.5
11640	1115.2
11700	1115.4
11760	1117.3
11820	1109.5
11880	1098.5
11940	1103.9
12000	1111.2
12060	1118.3
12120	1109.7
12180	1102.9
12240	1104.4
12300	1113
12360	1118.2
12420	1112.1
12480	1114.3
12540	1115.9
12600	1112.8
12660	1113.2
12720	1116
12780	1110.4
12840	1113.7
12900	1108.1
12960	1109.3
13020	1107.6
13080	1109.4
13140	1108.5
13200	1112.2
13260	1113.8
13320	1115
13380	1111.3
13440	1114.8
13500	1117.3
13560	1113.4
13620	1115.2
13680	1116.4
13740	1111
13800	1108.7
13860	1108.2
13920	1107.6
13980	1106.8
14040	1107.1
14100	1109
14160	1111.6
14220	1115.9
14280	1120.9
14340	1121.8
14400	1097.1
14460	1098.4

14520	1098.7
14580	1098.2
14640	1097.1