

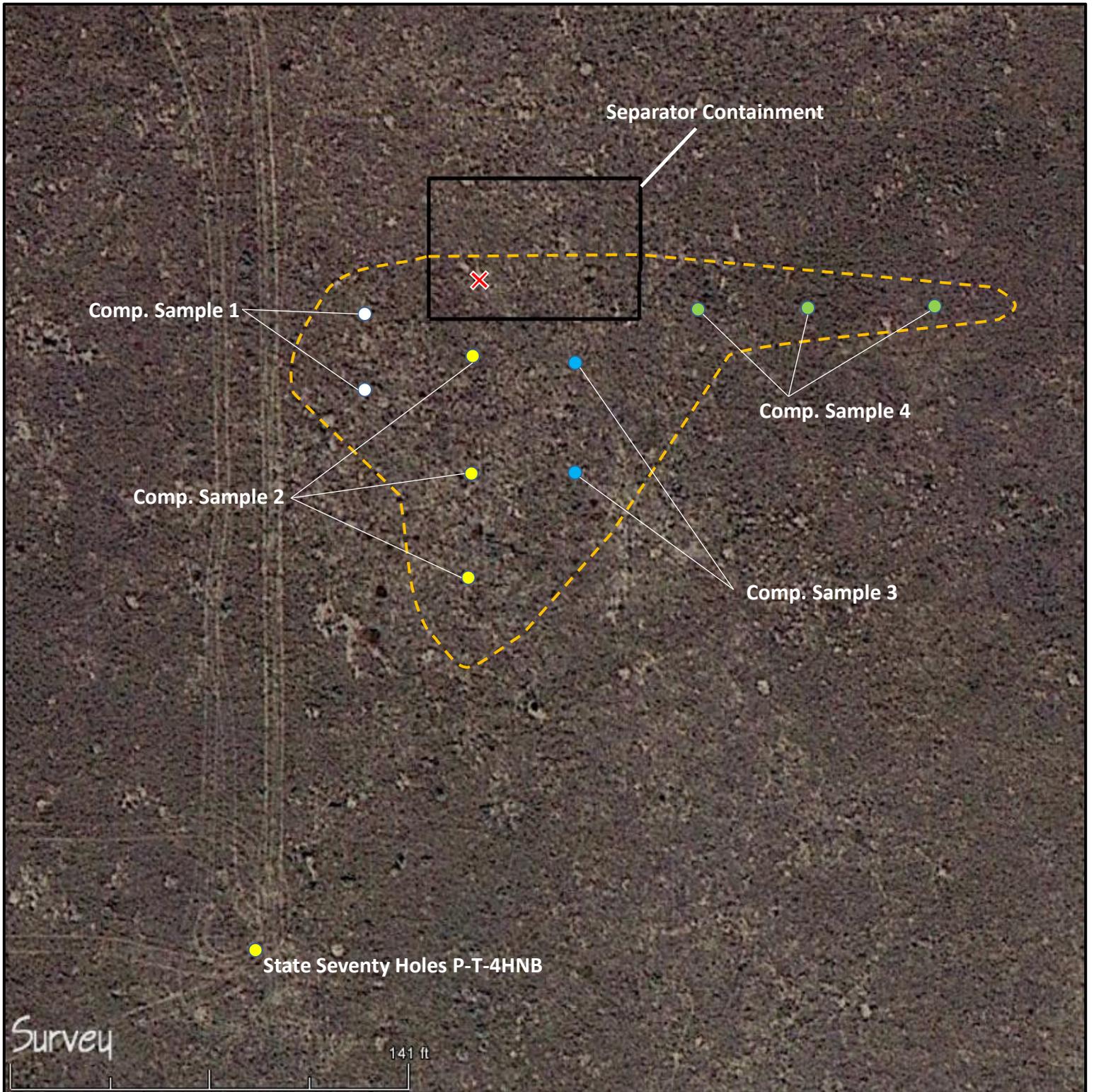
LEGEND

 Site Location



Figure 1  
Location Site Map  
December 18, 2015 BDD

**State Seventy Holes P-4 Tank Battery  
Facility ID: 433884  
NWNE, Sec 4, T4N, R62W, 6<sup>th</sup> PM  
Weld County, Colorado**



Aerial photograph courtesy of Google Earth Pro

LEGEND

-  Release Location
-  Soil Sample
-  Scraped Area

N



Figure 2  
Site Map

April 21, 2016 BDD

**State Seventy Holes P-4 Tank Battery**  
**Facility ID: 433884**  
**NWNE, Sec 4, T4N, R62W, 6<sup>th</sup> PM**  
**Weld County, Colorado**

**TABLE 1**  
**SOIL ANALYTICAL RESULTS**  
**STATE SEVENTY HOLES P-4 TANK BATTERY**  
**WELD COUNTY, COLORADO**  
**BONANZA CREEK ENERGY OPERATING COMPANY LLC.**

Parameters		COGCC Table 910-1 Concentration Level	SSH P-4 Composite 1	SSH P-4 Composite 2	SSH P-4 Composite 3	SSH P-4 Composite 4
Sample Date			4/1/2016	4/1/2016	4/1/2016	4/1/2016
Sample Depth (feet)			0 - 0.33	0 - 0.33	0 - 0.33	0 - 0.33
<b>BTEX</b>	<b>Benzene</b>	<b>0.17</b>	<0.002	<0.002	<0.050	<0.002
	<b>Toluene</b>	<b>85</b>	<0.002	<0.002	<0.050	<0.002
	<b>Ethylbenzene</b>	<b>100</b>	<0.002	<0.002	<0.050	<0.002
	<b>Total Xylenes</b>	<b>175</b>	<0.002	<0.002	<0.050	<0.002
<b>TPH</b>	<b>DRO</b>	--	<50	<50	<50	<50
	<b>GRO</b>	--	<0.200	<0.200	<5.00	<0.200
	<b>Total</b>	<b>500</b>	<50	<50	<50	<50

**Notes:**

-- - no concentration level is available  
BTEX - benzene, toluene, ethylbenzene, xylenes (total)  
COGCC - Colorado Oil and Gas Conservation Commission  
TPH - total petroleum hydrocarbons  
DRO - diesel range organics  
GRO - gasoline range organics  
All results are in mg/kg unless stated otherwise.

April 07, 2016

**Bonanza Creek Energy, Inc.**

**Brian Dodek**

**410 17th St, Suite 1400**

**Denver CO 80211**

**Project Name - SSH P-4**

**Project Number - [none]**

Attached are your analytical results for SSH P-4 received by Origins Laboratory, Inc. April 01, 2016. This project is associated with Origins project number X604012-01.

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



Bonanza Creek Energy, Inc.

410 17th St, Suite 1400

Denver CO 80211

Brian Dodek

Project Number: [none]

Project: SSH P-4

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SSH P-4 Composite 1	X604012-01	Soil	April 1, 2016 10:30	04/01/2016 14:30
SSH P-4 Composite 2	X604012-02	Soil	April 1, 2016 10:45	04/01/2016 14:30
SSH P-4 Composite 3	X604012-03	Soil	April 1, 2016 11:00	04/01/2016 14:30
SSH P-4 Composite 4	X604012-04	Soil	April 1, 2016 11:15	04/01/2016 14:30

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

Brian Dodek

Project Number: [none]

Project: SSH P-4

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page 1 of 1

**ORIGINS**  
LABORATORY, INC

X004012

Client: **Bonanza Creek Energy**  
Address: **410 17th Street Suite 1700 Denver, CO 80202**  
Telephone Number: **720-225-6653**  
Email Address: **B.Dodek@BonanzaCreek.com**

Project Manager: **Brian Dodek**  
Project Name: **SSH P-4**  
Project Number: **—**  
Samples Collected By: **L. Kelly**

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions	
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	As Summa Container #			Other
SSH P-4 Composite 1	04/01/2016	10:30	2	X				X				0-4"	1
SSH P-4 Composite 2	04/01/2016	10:45	2	X				X				0-4"	2
SSH P-4 Composite 3	04/01/2016	11:00	2	X				X				0-4"	3
SSH P-4 Composite 4	04/01/2016	11:15	2	X				X				0-4"	4
													5
													6
													7
													8
													9
													10
Relinquished By: <i>L. Kelly</i>	Date: 4/1/2016	Time: 1430	Received By: <i>[Signature]</i>	Date: 4/1/16	Time: 1430	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/>							
Relinquished By:	Date:	Time:	Received By:	Date: 4/1/16	Time: 1430								

Date Results Needed

Origins Laboratory, Inc.

*Jefe Pellegrini*

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

Brian Dodek

Project Number: [none]

Project: SSH P-4

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: XL004012

Client: Bonanza Creek

Client Project ID: SSH P-4

Checklist Completed by: Jesse Smith

Shipped Via: HD  
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 4/2/12

Airbill #: N/A

Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_

Cooler Number/Temperature: 1143 °C 1 °C 1 °C (Describe) \_\_\_\_\_ °C

Thermometer ID: T08

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (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 <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

<sup>(1)</sup>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.

Jesse Smith  
Reviewed by (Project Manager)

4/2/12  
Date/Time Reviewed

Origins Laboratory, Inc.



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Bonanza Creek Energy, Inc.

410 17th St, Suite 1400

Denver CO 80211

Brian Dodek

Project Number: [none]

Project: SSH P-4

**SSH P-4 Composite 1**

**4/1/2016 10:30:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
X604012-01 (Soil)

**Diesel Range Organics (DRO/TEPH) by EPA 8015C**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B6D0405	04/04/2016	04/04/2016	U
<i>Surrogate: o-Terphenyl</i>	74.0 %	59-131			"	"	"	

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B6D0401	04/04/2016	04/05/2016	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U
<i>Surrogate: 1,2-Dichloroethane-d4</i>	110 %	70-130			"	"	"	
<i>Surrogate: Toluene-d8</i>	97.0 %	70-130			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	99.7 %	70-130			"	"	"	

Origins Laboratory, Inc.



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Bonanza Creek Energy, Inc.

410 17th St, Suite 1400

Denver CO 80211

Brian Dodek

Project Number: [none]

Project: SSH P-4

**SSH P-4 Composite 2**

**4/1/2016 10:45:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X604012-02 (Soil)**

**Diesel Range Organics (DRO/TEPH) by EPA 8015C**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B6D0405	04/04/2016	04/04/2016	U
<i>Surrogate: o-Terphenyl</i>	69.9 %	59-131			"	"	"	

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B6D0401	04/04/2016	04/05/2016	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U
<i>Surrogate: 1,2-Dichloroethane-d4</i>	112 %	70-130			"	"	"	
<i>Surrogate: Toluene-d8</i>	96.3 %	70-130			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	99.3 %	70-130			"	"	"	

Origins Laboratory, Inc.



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Bonanza Creek Energy, Inc.

410 17th St, Suite 1400

Denver CO 80211

Brian Dodek

Project Number: [none]

Project: SSH P-4

**SSH P-4 Composite 3**

**4/1/2016 11:00:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X604012-03 (Soil)**

**Diesel Range Organics (DRO/TEPH) by EPA 8015C**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B6D0405	04/04/2016	04/04/2016	U
<i>Surrogate: o-Terphenyl</i>	92.1 %	59-131			"	"	"	

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B6D0401	04/04/2016	04/05/2016	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U
<i>Surrogate: 1,2-Dichloroethane-d4</i>	106 %	70-130			"	"	"	
<i>Surrogate: Toluene-d8</i>	98.9 %	70-130			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	98.3 %	70-130			"	"	"	

Origins Laboratory, Inc.



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410 17th St, Suite 1400

Denver CO 80211

Brian Dodek

Project Number: [none]

Project: SSH P-4

**SSH P-4 Composite 4**

**4/1/2016 11:15:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X604012-04 (Soil)**

**Diesel Range Organics (DRO/TEPH) by EPA 8015C**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B6D0405	04/04/2016	04/04/2016	U
<i>Surrogate: o-Terphenyl</i>	81.7 %	59-131			"	"	"	

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B6D0401	04/04/2016	04/05/2016	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U
<i>Surrogate: 1,2-Dichloroethane-d4</i>	108 %	70-130			"	"	"	
<i>Surrogate: Toluene-d8</i>	96.5 %	70-130			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	98.3 %	70-130			"	"	"	

Origins Laboratory, Inc.



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Bonanza Creek Energy, Inc.

410 17th St, Suite 1400

Denver CO 80211

Brian Dodek

Project Number: [none]

Project: SSH P-4

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B6D0401 - EPA 5030 (soil)**

**Blank (B6D0401-BLK1)**

Prepared: 04/04/2016 Analyzed: 04/04/2016

Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	78.6		ug/kg	62.5		126	70-130			
Surrogate: Toluene-d8	65.1		"	62.5		104	70-130			
Surrogate: 4-Bromofluorobenzene	63.7		"	62.5		102	70-130			

Origins Laboratory, Inc.



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Bonanza Creek Energy, Inc.

410 17th St, Suite 1400

Denver CO 80211

Brian Dodek

Project Number: [none]

Project: SSH P-4

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B6D0401 - EPA 5030 (soil)**

**LCS (B6D0401-BS1)**

Prepared: 04/04/2016 Analyzed: 04/04/2016

Benzene	0.081	0.002	mg/kg	0.100		80.6	77.1-124			
Toluene	0.083	0.002	"	0.100		83.4	74.5-128			
Ethylbenzene	0.084	0.002	"	0.100		83.6	66.4-127			
m,p-Xylene	0.169	0.004	"	0.200		84.7	76.6-124			
o-Xylene	0.084	0.002	"	0.100		84.0	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	62.6		ug/kg	62.5		100	70-130			
Surrogate: Toluene-d8	62.8		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	60.8		"	62.5		97.2	70-130			

Origins Laboratory, Inc.



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Bonanza Creek Energy, Inc.

410 17th St, Suite 1400

Denver CO 80211

Brian Dodek

Project Number: [none]

Project: SSH P-4

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6D0401 - EPA 5030 (soil)

Matrix Spike (B6D0401-MS1)	Source: X604009-03			Prepared: 04/04/2016 Analyzed: 04/04/2016						
Benzene	0.076	0.002	mg/kg	0.100	ND	76.5	71.8-126			
Toluene	0.077	0.002	"	0.100	ND	77.3	65.1-130			
Ethylbenzene	0.078	0.002	"	0.100	ND	77.9	62.2-130			
m,p-Xylene	0.158	0.004	"	0.200	ND	78.9	46.5-137			
o-Xylene	0.078	0.002	"	0.100	ND	77.5	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	68.3		ug/kg	62.5		109	70-130			
Surrogate: Toluene-d8	61.8		"	62.5		98.8	70-130			
Surrogate: 4-Bromofluorobenzene	62.3		"	62.5		99.6	70-130			

Origins Laboratory, Inc.



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Bonanza Creek Energy, Inc.

410 17th St, Suite 1400

Denver CO 80211

Brian Dodek

Project Number: [none]

Project: SSH P-4

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6D0401 - EPA 5030 (soil)

Matrix Spike Dup (B6D0401-MSD1)	Source: X604009-03			Prepared: 04/04/2016 Analyzed: 04/04/2016						
Benzene	0.062	0.002	mg/kg	0.100	ND	62.1	71.8-126	20.7	11.3	QM-07, QR-03
Toluene	0.062	0.002	"	0.100	ND	62.1	65.1-130	21.9	15.4	QM-07, QR-03
Ethylbenzene	0.062	0.002	"	0.100	ND	61.9	62.2-130	22.9	19.6	QM-07, QR-03
m,p-Xylene	0.125	0.004	"	0.200	ND	62.4	46.5-137	23.4	19.2	QR-03
o-Xylene	0.062	0.002	"	0.100	ND	62.1	54.2-134	22.0	17.9	QR-03
Surrogate: 1,2-Dichloroethane-d4	66.8		ug/kg	62.5		107	70-130			
Surrogate: Toluene-d8	61.5		"	62.5		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	60.8		"	62.5		97.3	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

Brian Dodek

Project Number: [none]

Project: SSH P-4

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Extractable Petroleum Hydrocarbons by 8015C - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B6D0405 - EPA 3580**

**Blank (B6D0405-BLK1)**

Prepared: 04/04/2016 Analyzed: 04/04/2016

Diesel (C10-C28)	ND	50.0	mg/kg							U
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Surrogate: o-Terphenyl

31			"	50.0		62.7	59-131			
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**LCS (B6D0405-BS1)**

Prepared: 04/04/2016 Analyzed: 04/04/2016

Diesel (C10-C28)	741	50.0	mg/kg	1000		74.1	64-121			
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Surrogate: o-Terphenyl

45			"	50.0		89.4	59-131			
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**Matrix Spike (B6D0405-MS1)**

**Source: X604009-03**

Prepared: 04/04/2016 Analyzed: 04/04/2016

Diesel (C10-C28)	699	50.0	mg/kg	1000	ND	69.9	53-125			
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Surrogate: o-Terphenyl

41			"	50.0		82.7	59-131			
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**Matrix Spike Dup (B6D0405-MSD1)**

**Source: X604009-03**

Prepared: 04/04/2016 Analyzed: 04/04/2016

Diesel (C10-C28)	606	50.0	mg/kg	1000	ND	60.6	53-125	14.2	20	
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Surrogate: o-Terphenyl

39			"	50.0		78.3	59-131			
----	--	--	---	------	--	------	--------	--	--	--

Origins Laboratory, Inc.



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Bonanza Creek Energy, Inc.  
410 17th St, Suite 1400  
Denver CO 80211

Brian Dodek  
Project Number: [none]  
Project: SSH P-4

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### Notes and Definitions

U Sample is Non-Detect.

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-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

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.*

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Jen Pellegrini For Noelle Doyle Mathis, President