

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

April 07, 2016

Carter Peace
Foundation Energy, LLC
15 E 15th St
Tulsa, OK 74103
RE: Cuykendall-Lauck #2

Enclosed are the results of analyses for samples received by Summit Scientific on 04/06/16 18:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Shrewsbury', with a stylized, cursive script.

Paul Shrewsbury
President



Foundation Energy, LLC
15 E 15th St
Tulsa OK, 74103

Project: Cuykendall-Lauck #2

Project Number: [none]
Project Manager: Carter Peace

Reported:
04/07/16 06:47

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01@6.5	1604044-01	Soil	04/06/16 10:15	04/06/16 18:00
SS02@5.5	1604044-02	Soil	04/06/16 10:23	04/06/16 18:00
SS03@5.5	1604044-03	Soil	04/06/16 11:45	04/06/16 18:00
SS04@5.5	1604044-04	Soil	04/06/16 11:55	04/06/16 18:00
SS05@5.5	1604044-05	Soil	04/06/16 12:05	04/06/16 18:00

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Foundation Energy, LLC
15 E 15th St
Tulsa OK, 74103

Project: Cuykendall-Lauck #2

Project Number: [none]
Project Manager: Carter Peace

Reported:
04/07/16 06:47

Summit Scientific 1604044

S₂

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303-277-9310 • 303-374-5933

Page 1 of 1

Client: Foundation Energy Project Manager: Carter Peace
Address: _____ E-Mail: cpence@fasman-geo.com
City/State/Zip: _____ CC: MPeterson@fasman-geo.com
Phone: 303 810 2414 Fax: _____ Project Name: Cuykendall-Lauck #2
Sampler Name: Matt Peterson Project Number: _____

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Analysis Requested				Special Instructions	
					HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air-Canister #	Other (Specify)	6875 (Pb)	800 (Pb)		
1	SS01@6.5'	4/6/16	10:15	1			X			X		X	X			
2	SS02@5.5'		10:23	1			X			X		X	X			
3	SS03@5.5'		11:45	1			X			X		X	X			
4	SS04@5.5'		11:55	1			X			X		X	X			
5	SS05@5.5'		12:05	1			X			X		X	X			
6																
7																
8																
9																
10																

Relinquished by: <u>[Signature]</u>	Date/Time: <u>4/6/16 1730</u>	Received by: <u>MP</u>	Date/Time: <u>4/6/16 1730</u>	Turn Around Time (Check)	Notes:
				Same Day <u>X</u> 72 hours <u>—</u>	
				24 hours <u>—</u> Standard <u>—</u>	
				48 hours <u>—</u>	
Relinquished by: <u>MP</u>	Date/Time: <u>4/6/16 1800</u>	Received by: <u>MP</u>	Date/Time: <u>4-6-16 1800</u>	Sample Integrity:	
				Temperature Upon Receipt: <u>4.5°C</u>	
				Intact: <u>(Yes)</u> No	<u>on ice</u>

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Foundation Energy, LLC
15 E 15th St
Tulsa OK, 74103

Project: Cuykendall-Lauck #2

Project Number: [none]
Project Manager: Carter Peace

Reported:
04/07/16 06:47

SS01@6.5
1604044-01 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/06/16 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1604067	04/06/16	04/06/16	8015M	

Date Sampled: **04/06/16 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		106 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/06/16 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.10	mg/kg	1	1604066	04/06/16	04/06/16	EPA 8260B	
Toluene	ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **04/06/16 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		101 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		95.5 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	21-167		"	"	"	"	

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15 E 15th St
Tulsa OK, 74103

Project: Cuykendall-Lauck #2

Project Number: [none]
Project Manager: Carter Peace

Reported:
04/07/16 06:47

SS02@5.5
1604044-02 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/06/16 10:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1604067	04/06/16	04/06/16	8015M	

Date Sampled: **04/06/16 10:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		98.7 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/06/16 10:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.10	mg/kg	1	1604066	04/06/16	04/06/16	EPA 8260B	
Toluene	ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **04/06/16 10:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		104 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		96.9 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	21-167		"	"	"	"	

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15 E 15th St
Tulsa OK, 74103

Project: Cuykendall-Lauck #2
Project Number: [none]
Project Manager: Carter Peace

Reported:
04/07/16 06:47

SS03@5.5
1604044-03 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/06/16 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1604067	04/06/16	04/06/16	8015M	

Date Sampled: **04/06/16 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		98.4 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/06/16 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.10	mg/kg	1	1604066	04/06/16	04/06/16	EPA 8260B	
Toluene	ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **04/06/16 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		102 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		96.8 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	21-167		"	"	"	"	

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Foundation Energy, LLC
15 E 15th St
Tulsa OK, 74103

Project: Cuykendall-Lauck #2
Project Number: [none]
Project Manager: Carter Peace

Reported:
04/07/16 06:47

SS04@5.5
1604044-04 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/06/16 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1604067	04/06/16	04/06/16	8015M	

Date Sampled: **04/06/16 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		99.7 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/06/16 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.10	mg/kg	1	1604066	04/06/16	04/06/16	EPA 8260B	
Toluene	ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **04/06/16 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane- <i>d</i> 4		106 %	23-173		"	"	"	"	
Surrogate: Toluene- <i>d</i> 8		99.1 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.9 %	21-167		"	"	"	"	

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15 E 15th St
Tulsa OK, 74103

Project: Cuykendall-Lauck #2

Project Number: [none]
Project Manager: Carter Peace

Reported:
04/07/16 06:47

SS05@5.5
1604044-05 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/06/16 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1604067	04/06/16	04/06/16	8015M	

Date Sampled: **04/06/16 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		96.5 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/06/16 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.10	mg/kg	1	1604066	04/06/16	04/06/16	EPA 8260B	
Toluene	ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **04/06/16 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		108 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		98.0 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	21-167		"	"	"	"	

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Project: Cuykendall-Lauck #2
Project Number: [none]
Project Manager: Carter Peace

Reported:
04/07/16 06:47

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch 1604067 - EPA 3550A

Blank (1604067-BLK1)

Prepared & Analyzed: 04/06/16

C10-C28 (DRO)	ND	50	mg/kg							
Surrogate: o-Terphenyl	16.6		"	12.5	133		30-150			

LCS (1604067-BS1)

Prepared & Analyzed: 04/06/16

C10-C28 (DRO)	555	50	mg/kg	499	111		73-134			
Surrogate: o-Terphenyl	15.4		"	12.5	123		30-150			

Matrix Spike (1604067-MS1)

Source: 1604043-01

Prepared & Analyzed: 04/06/16

C10-C28 (DRO)	505	50	mg/kg	465	28.3	102	50-148			
Surrogate: o-Terphenyl	13.5		"	11.7	116		30-150			

Matrix Spike Dup (1604067-MSD1)

Source: 1604043-01

Prepared & Analyzed: 04/06/16

C10-C28 (DRO)	493	50	mg/kg	469	28.3	99.0	50-148	2.42	13	
Surrogate: o-Terphenyl	13.4		"	11.7	114		30-150			

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Project: Cuykendall-Lauck #2
Project Number: [none]
Project Manager: Carter Peace

Reported:
04/07/16 06:47

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 1604066 - EPA 5030 Soil MS

Blank (1604066-BLK1)

Prepared: 04/06/16 Analyzed: 04/07/16

Benzene	ND	0.10	mg/kg
Toluene	ND	10	"
Ethylbenzene	ND	10	"
Xylenes (total)	ND	10	"
Gasoline Range Hydrocarbons	ND	50	"

Surrogate: 1,2-Dichloroethane-d4	0.0403	"	0.0400	101	23-173
Surrogate: Toluene-d8	0.0392	"	0.0400	98.0	20-170
Surrogate: 4-Bromofluorobenzene	0.0413	"	0.0400	103	21-167

LCS (1604066-BS1)

Prepared: 04/06/16 Analyzed: 04/07/16

Benzene	0.0996	0.10	mg/kg	0.100	99.6	58-130
Toluene	0.112	10	"	0.100	112	61-134
Ethylbenzene	0.122	10	"	0.0992	123	74-139
m,p-Xylene	0.232	10	"	0.200	116	73-137
o-Xylene	0.113	10	"	0.0980	116	73-141

Surrogate: 1,2-Dichloroethane-d4	0.0385	"	0.0400	96.3	23-173
Surrogate: Toluene-d8	0.0406	"	0.0400	101	20-170
Surrogate: 4-Bromofluorobenzene	0.0414	"	0.0400	104	21-167

Matrix Spike (1604066-MS1)

Source: 1604043-01

Prepared: 04/06/16 Analyzed: 04/07/16

Benzene	0.102	0.10	mg/kg	0.0969	ND	106	30-131
Toluene	0.113	10	"	0.0969	ND	117	30-134
Ethylbenzene	0.122	10	"	0.0961	ND	127	22-153
m,p-Xylene	0.235	10	"	0.193	ND	121	10-159
o-Xylene	0.114	10	"	0.0950	ND	120	31-151

Surrogate: 1,2-Dichloroethane-d4	0.0397	"	0.0388	102	23-173
Surrogate: Toluene-d8	0.0395	"	0.0388	102	20-170
Surrogate: 4-Bromofluorobenzene	0.0392	"	0.0388	101	21-167

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15 E 15th St
Tulsa OK, 74103

Project: Cuykendall-Lauck #2

Project Number: [none]
Project Manager: Carter Peace

Reported:
04/07/16 06:47

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 1604066 - EPA 5030 Soil MS

Matrix Spike Dup (1604066-MSD1)		Source: 1604043-01			Prepared: 04/06/16		Analyzed: 04/07/16			
Benzene	0.0947	0.10	mg/kg	0.0903	ND	105	30-131	7.64	34	
Toluene	0.104	10	"	0.0903	ND	115	30-134	8.94	30	
Ethylbenzene	0.115	10	"	0.0895	ND	128	22-153	6.32	24	
m,p-Xylene	0.216	10	"	0.180	ND	120	10-159	8.31	68	
o-Xylene	0.106	10	"	0.0884	ND	119	31-151	7.61	38	
Surrogate: 1,2-Dichloroethane-d4	0.0379		"	0.0361		105	23-173			
Surrogate: Toluene-d8	0.0358		"	0.0361		99.3	20-170			
Surrogate: 4-Bromofluorobenzene	0.0365		"	0.0361		101	21-167			

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15 E 15th St
Tulsa OK, 74103

Project: Cuykendall-Lauck #2

Project Number: [none]
Project Manager: Carter Peace

Reported:
04/07/16 06:47

Notes and Definitions

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

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A handwritten signature in black ink, appearing to be 'MSM'.

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