

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,



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: M.Petersen@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	HNO3	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 <input checked="" type="checkbox"/> 72 hours <input type="checkbox"/>	on ice
				24 hours <input type="checkbox"/> Standard <input type="checkbox"/>	
				48 hours <input type="checkbox"/>	
Relinquished by: <u>[Signature]</u>	Date/Time: <u>4/6/16 1800</u>	Received by: <u>[Signature]</u>	Date/Time: <u>4-6-16 1800</u>	Sample Integrity:	
				Temperature Upon Receipt: <u>4.5°C</u>	
				Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

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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: <i>o</i> -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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 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: <i>o</i> -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: <i>o</i> -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-d4		106 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		99.1 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.9 %	21-167		"	"	"	"	

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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: <i>o</i> -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	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

Batch 1604067 - EPA 3550A

Blank (1604067-BLK1)				Prepared & Analyzed: 04/06/16							
C10-C28 (DRO)	ND	50	mg/kg								
Surrogate: <i>o</i> -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: <i>o</i> -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: <i>o</i> -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: <i>o</i> -Terphenyl	13.4		"	11.7		114	30-150				

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Project Number: [none]
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Reported:
04/07/16 06:47

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

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

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 Level	Source Result	%REC		RPD		Notes
	Result	Limit			Units	%REC	Limits	RPD	

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
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0379</i>		<i>"</i>	<i>0.0361</i>		<i>105</i>	<i>23-173</i>		
<i>Surrogate: Toluene-d8</i>	<i>0.0358</i>		<i>"</i>	<i>0.0361</i>		<i>99.3</i>	<i>20-170</i>		
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0365</i>		<i>"</i>	<i>0.0361</i>		<i>101</i>	<i>21-167</i>		

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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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