

# Summit Scientific

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May 23, 2013

James Hix  
Olsson Associates  
4690 Table Mountain Drive, Suite 200  
Golden, CO 80403  
RE: Laramie Energy II Fuqua 18-15

Enclosed are the results of analyses for samples received by Summit Scientific on 05/16/13 08:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Joseph J Egry IV  
Laboratory Director

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Olsson Associates  
4690 Table Mountain Drive, Suite 200  
Golden CO, 80403

Project: Laramie Energy II Fuqua 18-15  
Project Number: 012-0225  
Project Manager: James Hix

**Reported:**  
05/23/13 10:22

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-18	R305169-01	Soil	05/15/13 14:58	05/16/13 08:00
SS-19	R305169-02	Soil	05/15/13 14:56	05/16/13 08:00

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*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.*

A handwritten signature in black ink, appearing to read 'James Hix IV'.





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**Reported:**  
05/23/13 10:22

**SS-18**  
**R305169-01 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/15/13 14:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>C10-C28 (TEPH-DRO)</b>	<b>31000</b>	500	mg/kg	10	3051615	05/16/13	05/17/13	8015M	
<b>C28-C36 (TEPH-ORO)</b>	<b>3600</b>	500	"	"	"	"	"	"	

Date Sampled: **05/15/13 14:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>		<i>135 %</i>	<i>30-150</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	

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Reported:  
05/23/13 10:22

**SS-19**  
**R305169-02 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/15/13 14:56**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>C10-C28 (TEPH-DRO)</b>	<b>36000</b>	500	mg/kg	10	3051615	05/16/13	05/17/13	8015M	
<b>C28-C36 (TEPH-ORO)</b>	<b>4700</b>	500	"	"	"	"	"	"	

Date Sampled: **05/15/13 14:56**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>		170 %	30-150		"	"	"	"	S-02

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05/23/13 10:22

**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 3051615 - EPA 3550A**

**Blank (3051615-BLK1)**

Prepared & Analyzed: 05/16/13

C10-C28 (TEPH-DRO)	ND	50	mg/kg
C28-C36 (TEPH-ORO)	ND	50	"

**LCS (3051615-BS1)**

Prepared & Analyzed: 05/16/13

C10-C28 (TEPH-DRO)	451	50	mg/kg	501	90.1	73-134
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**LCS Dup (3051615-BSD1)**

Prepared & Analyzed: 05/16/13

C10-C28 (TEPH-DRO)	435	50	mg/kg	501	86.9	73-134	3.59	11
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**Matrix Spike (3051615-MS1)**

Source: R305177-01

Prepared & Analyzed: 05/16/13

C10-C28 (TEPH-DRO)	472	50	mg/kg	501	44.0	85.5	50-148
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**Matrix Spike Dup (3051615-MSD1)**

Source: R305177-01

Prepared & Analyzed: 05/16/13

C10-C28 (TEPH-DRO)	456	50	mg/kg	501	44.0	82.3	50-148	3.51	13
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### Notes and Definitions

S-02      The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

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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