

Test Report



October 17, 2019

Client: Peterson Energy Operating

Project: Rasmussen BH Tests

Lab ID: 1680

Date Samples Received: 10/8/2019

Sample Condition: Samples arrived intact and in appropriate sample containers. Samples were received within the temperature range specified in the test method(s) and/or with thermal preservation in process.

Comments:

Thank you for allowing eAnalytics Laboratory to provide laboratory services for you.

A handwritten signature in black ink, appearing to read "Chris Dieken".

Chris Dieken
QA Manager

A handwritten signature in black ink, appearing to read "Todd Rhea".

Todd Rhea
Lab Manager

eAnalytics Laboratory
4130 Clydesdale Parkway Loveland CO 80538

Chain of Custody

eANALYTICS
LABORATORY

Chain of Custody Form

[illegible]

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Client: Peterson Energy Operating Lab ID: 1680

Project: Rasmussen BH Tests

Analysis: Volatile Organics - BTEX/TVPH Method: EPA8260

Sample Name	Benzene	Toluene	Ethyl- Benzene	Total Xylenes	TVPH	Date Sampled	Date Analyzed	Lab ID
	mg/L	mg/L	mg/L	mg/L	mg/L			
Rasmussen #1 BH	0.013	0.007	0.008	0.029		10/08/19	10/11/19	1680 1
Rasmussen #3 BH	1.76	4.38	0.467	4.25	48.0	10/08/19	10/12/19	1680 2
Rasmussen #4A BH	0.043	0.024	0.010	0.040		10/08/19	10/11/19	1680 3

The logo for eANALYTICS LABORATORY. The word "eANALYTICS" is in a large, green, sans-serif font, with the "e" being a stylized lowercase letter. Below it, the word "LABORATORY" is in a smaller, green, sans-serif font, with each letter separated by a small gap.

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Analysis: Total Dissolved Solids (TDS) Method: EPA160.1

Sample Name	TDS mg/L	Date		
		Sampled	Analyzed	Lab ID
Rasmussen #1 BH	2920	10/08/19	10/10/19	1680 1
Rasmussen #3 BH	2190	10/08/19	10/10/19	1680 2
Rasmussen #4A BH	2970	10/08/19	10/10/19	1680 3

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Analysis: Anion-Chloride Method: EPA300.0
Anion-Sulfate EPA300.0

Sample Name	Chloride	Sulfate	Date	Date	Lab ID
	mg/L	mg/L	Sampled	Analyzed	
Rasmussen #1 BH	2184	<5	10/08/19	10/16/19	1680 1
Rasmussen #3 BH	599	<5	10/08/19	10/16/19	1680 2
Rasmussen #4A BH	2346	<5	10/08/19	10/16/19	1680 3

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Method: EPA8260

Sample Name	Dibromo- fluoromethane	1,2 Dichloro- ethane-D4	Toluene-D8	4-Bromo- fluorobenzene	Date Sampled	Date Analyzed	Lab ID	
	% Recovery	% Recovery	% Recovery	% Recovery				
Rasmussen #1 BH	108	98	96	113	10/08/19	10/11/19	1680	1
Rasmussen #3 BH	107	100	103	104	10/08/19	10/12/19	1680	2
Rasmussen #4A BH	107	98	107	118	10/08/19	10/11/19	1680	3

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Water		Benzene	Toluene	Ethyl-Benzene	Total Xylenes	TVPH	QC Start Date
Method Blank		<0.001	<0.001	<0.001	<0.001	<0.50	
		mg/L	mg/L	mg/L	mg/L	mg/L	
Lab Control Sample	70%-130%	110	113	115	114	91	10/11/19

eAnalytics Laboratory

4130 Clydesdale Parkway Loveland CO 80538