

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Denver

4955 Yarrow Street

Arvada, CO 80002

Tel: (303)736-0100

TestAmerica Job ID: 280-88463-1

Client Project/Site: Antelope Farms 1-24 - COGCC Table 910-1

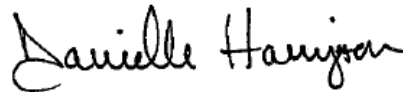
For:

Fahey Oil & Gas

93 South CR 159

Strasburg, Colorado 80136

Attn: Mr. Gilbert Paine



Authorized for release by:

10/11/2016 4:26:21 PM

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Fahey Oil & Gas
Project/Site: Antelope Farms 1-24 - COGCC Table 910-1

TestAmerica Job ID: 280-88463-1

Qualifiers

GC VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Fahey Oil & Gas
Project/Site: Antelope Farms 1-24 - COGCC Table 910-1

TestAmerica Job ID: 280-88463-1

Job ID: 280-88463-1

Laboratory: TestAmerica Denver

Narrative

CASE NARRATIVE

Client: Fahey Oil & Gas

Project: Antelope Farms 1-24 - COGCC Table 910-1

Report Number: 280-88463-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 09/19/2016; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 14.5 C, which is above the EPA's recommended temperature of 6.0C. However, the samples were collected the same day they were received.

Please note, the chain of custody has no analysis marked for each sample. Received two separate COC's but they have the same sample ID's, dates, and times. Logged for both analysis listed on the chain of custody and used the the chain of custody with the longer sample ID's. Client was notified on 9/23/2016.

GASOLINE RANGE ORGANICS (GRO)

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DIESEL RANGE ORGANICS

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PERCENT SOLIDS

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Fahey Oil & Gas
Project/Site: Antelope Farms 1-24 - COGCC Table 910-1

TestAmerica Job ID: 280-88463-1

Client Sample ID: SOUTH WALL #3

Lab Sample ID: 280-88463-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	9.0		4.7	0.80	mg/Kg	1	☼	8015B	Total/NA
Motor Oil (C20-C38)	9.9	J	14	4.6	mg/Kg	1	☼	8015B	Total/NA

Client Sample ID: WEST WALL#4

Lab Sample ID: 280-88463-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO)	0.46	J	1.4	0.37	mg/Kg	1	☼	8015B	Total/NA
-C6-C10									
Diesel Range Organics [C10-C28]	3.5	J	4.5	0.77	mg/Kg	1	☼	8015B	Total/NA

Client Sample ID: BASE

Lab Sample ID: 280-88463-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	4.0		4.0	0.69	mg/Kg	1	☼	8015B	Total/NA
Motor Oil (C20-C38)	7.9	J	12	4.0	mg/Kg	1	☼	8015B	Total/NA

This Detection Summary does not include radiochemical test results.

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Method Summary

Client: Fahey Oil & Gas

TestAmerica Job ID: 280-88463-1

Project/Site: Antelope Farms 1-24 - COGCC Table 910-1

Method	Method Description	Protocol	Laboratory
8015B	Gasoline Range Organics - (GC)	SW846	TAL DEN
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL DEN
Moisture	Percent Moisture	EPA	TAL DEN

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Sample Summary

Client: Fahey Oil & Gas

Project/Site: Antelope Farms 1-24 - COGCC Table 910-1

TestAmerica Job ID: 280-88463-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-88463-1	SOUTH WALL #3	Solid	09/19/16 00:00	09/19/16 13:40
280-88463-2	WEST WALL#4	Solid	09/19/16 00:00	09/19/16 13:40
280-88463-3	BASE	Solid	09/19/16 00:00	09/19/16 13:40

Client Sample Results

Client: Fahey Oil & Gas
Project/Site: Antelope Farms 1-24 - COGCC Table 910-1

TestAmerica Job ID: 280-88463-1

Method: 8015B - Gasoline Range Organics - (GC)

Client Sample ID: SOUTH WALL #3

Date Collected: 09/19/16 00:00

Date Received: 09/19/16 13:40

Lab Sample ID: 280-88463-1

Matrix: Solid

Percent Solids: 83.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	ND		1.4	0.39	mg/Kg	☼	09/26/16 14:50	09/30/16 00:29	1
-C6-C10									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	81		77 - 123				09/26/16 14:50	09/30/16 00:29	1

Client Sample ID: WEST WALL#4

Date Collected: 09/19/16 00:00

Date Received: 09/19/16 13:40

Lab Sample ID: 280-88463-2

Matrix: Solid

Percent Solids: 85.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	0.46	J	1.4	0.37	mg/Kg	☼	09/26/16 14:50	09/30/16 01:43	1
-C6-C10									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	85		77 - 123				09/26/16 14:50	09/30/16 01:43	1

Client Sample ID: BASE

Date Collected: 09/19/16 00:00

Date Received: 09/19/16 13:40

Lab Sample ID: 280-88463-3

Matrix: Solid

Percent Solids: 96.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	ND		1.2	0.33	mg/Kg	☼	09/26/16 14:50	09/30/16 02:08	1
-C6-C10									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	95		77 - 123				09/26/16 14:50	09/30/16 02:08	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Client Sample ID: SOUTH WALL #3

Date Collected: 09/19/16 00:00

Date Received: 09/19/16 13:40

Lab Sample ID: 280-88463-1

Matrix: Solid

Percent Solids: 83.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	9.0		4.7	0.80	mg/Kg	☼	09/23/16 09:47	09/27/16 19:34	1
Motor Oil (C20-C38)	9.9	J	14	4.6	mg/Kg	☼	09/23/16 09:47	09/27/16 19:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	78		49 - 115				09/23/16 09:47	09/27/16 19:34	1

Client Sample ID: WEST WALL#4

Date Collected: 09/19/16 00:00

Date Received: 09/19/16 13:40

Lab Sample ID: 280-88463-2

Matrix: Solid

Percent Solids: 85.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	3.5	J	4.5	0.77	mg/Kg	☼	09/23/16 09:47	09/27/16 19:59	1
Motor Oil (C20-C38)	ND		14	4.4	mg/Kg	☼	09/23/16 09:47	09/27/16 19:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	66		49 - 115				09/23/16 09:47	09/27/16 19:59	1

TestAmerica Denver

Client Sample Results

Client: Fahey Oil & Gas
Project/Site: Antelope Farms 1-24 - COGCC Table 910-1

TestAmerica Job ID: 280-88463-1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Client Sample ID: BASE
Date Collected: 09/19/16 00:00
Date Received: 09/19/16 13:40

Lab Sample ID: 280-88463-3
Matrix: Solid
Percent Solids: 96.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	4.0		4.0	0.69	mg/Kg	☼	09/23/16 09:47	09/27/16 20:23	1
Motor Oil (C20-C38)	7.9	J	12	4.0	mg/Kg	☼	09/23/16 09:47	09/27/16 20:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	87		49 - 115				09/23/16 09:47	09/27/16 20:23	1

General Chemistry

Client Sample ID: SOUTH WALL #3
Date Collected: 09/19/16 00:00
Date Received: 09/19/16 13:40

Lab Sample ID: 280-88463-1
Matrix: Solid
Percent Solids: 83.0

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17.0		0.1	0.1	%	-		09/27/16 11:06	1

Client Sample ID: WEST WALL#4
Date Collected: 09/19/16 00:00
Date Received: 09/19/16 13:40

Lab Sample ID: 280-88463-2
Matrix: Solid
Percent Solids: 85.8

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.2		0.1	0.1	%	-		09/27/16 11:06	1

Client Sample ID: BASE
Date Collected: 09/19/16 00:00
Date Received: 09/19/16 13:40

Lab Sample ID: 280-88463-3
Matrix: Solid
Percent Solids: 96.7

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	3.3		0.1	0.1	%	-		09/27/16 11:06	1

Surrogate Summary

Client: Fahey Oil & Gas
Project/Site: Antelope Farms 1-24 - COGCC Table 910-1

TestAmerica Job ID: 280-88463-1

Method: 8015B - Gasoline Range Organics - (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TFT1 (77-123)
280-88463-1	SOUTH WALL #3	81
280-88463-1 MS	SOUTH WALL #3	84
280-88463-1 MSD	SOUTH WALL #3	86
280-88463-2	WEST WALL#4	85
280-88463-3	BASE	95
LCS 280-343784/2-A	Lab Control Sample	94
MB 280-343784/1-A	Method Blank	92

Surrogate Legend

TFT = a,a,a-Trifluorotoluene

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTPH1 (49-115)
280-88463-1	SOUTH WALL #3	78
280-88463-2	WEST WALL#4	66
280-88463-3	BASE	87
280-88463-3 MS	BASE	85
280-88463-3 MSD	BASE	99
LCS 280-343449/2-A	Lab Control Sample	92
MB 280-343449/1-A	Method Blank	93

Surrogate Legend

OTPH = o-Terphenyl

QC Sample Results

Client: Fahey Oil & Gas
Project/Site: Antelope Farms 1-24 - COGCC Table 910-1

TestAmerica Job ID: 280-88463-1

Method: 8015B - Gasoline Range Organics - (GC)

Lab Sample ID: MB 280-343784/1-A

Matrix: Solid

Analysis Batch: 344485

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 343784

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	ND		1.2	0.33	mg/Kg		09/26/16 14:50	09/29/16 23:39	1
-C6-C10									
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	92		77 - 123				09/26/16 14:50	09/29/16 23:39	1

Lab Sample ID: LCS 280-343784/2-A

Matrix: Solid

Analysis Batch: 344485

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 343784

Analyte		Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Gasoline Range Organics (GRO)		5.50	5.64		mg/Kg		103	85 - 153	
-C6-C10									
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
a,a,a-Trifluorotoluene	94		77 - 123						

Lab Sample ID: 280-88463-1 MS

Matrix: Solid

Analysis Batch: 344485

Client Sample ID: SOUTH WALL #3

Prep Type: Total/NA

Prep Batch: 343784

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	
Gasoline Range Organics (GRO)	ND		6.59	6.07		mg/Kg	☼	92	85 - 153	
-C6-C10										
Surrogate	MS %Recovery	MS Qualifier	Limits							
a,a,a-Trifluorotoluene	84		77 - 123							

Lab Sample ID: 280-88463-1 MSD

Matrix: Solid

Analysis Batch: 344485

Client Sample ID: SOUTH WALL #3

Prep Type: Total/NA

Prep Batch: 343784

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Gasoline Range Organics (GRO)	ND		6.54	5.82		mg/Kg	☼	89	85 - 153	4	30
-C6-C10											
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
a,a,a-Trifluorotoluene	86		77 - 123								

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 280-343449/1-A

Matrix: Solid

Analysis Batch: 344008

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 343449

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		4.0	0.68	mg/Kg		09/23/16 09:47	09/27/16 17:07	1
Motor Oil (C20-C38)	ND		12	3.9	mg/Kg		09/23/16 09:47	09/27/16 17:07	1

TestAmerica Denver

QC Sample Results

Client: Fahey Oil & Gas
Project/Site: Antelope Farms 1-24 - COGCC Table 910-1

TestAmerica Job ID: 280-88463-1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	93		49 - 115	09/23/16 09:47	09/27/16 17:07	1

Lab Sample ID: LCS 280-343449/2-A

Matrix: Solid

Analysis Batch: 344008

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 343449

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	66.7	57.9		mg/Kg		87	53 - 115
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
o-Terphenyl	92		49 - 115				

Lab Sample ID: 280-88463-3 MS

Matrix: Solid

Analysis Batch: 344008

Client Sample ID: BASE

Prep Type: Total/NA

Prep Batch: 343449

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	4.0		67.8	55.0		mg/Kg	☼	75	56 - 115
Surrogate	MS %Recovery	MS Qualifier	Limits						
o-Terphenyl	85		49 - 115						

Lab Sample ID: 280-88463-3 MSD

Matrix: Solid

Analysis Batch: 344008

Client Sample ID: BASE

Prep Type: Total/NA

Prep Batch: 343449

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	4.0		66.9	61.8		mg/Kg	☼	86	56 - 115	12	23
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
o-Terphenyl	99		49 - 115								

Method: Moisture - Percent Moisture

Lab Sample ID: 280-88463-1 DU

Matrix: Solid

Analysis Batch: 343946

Client Sample ID: SOUTH WALL #3

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	17.0		16.9		%		0.8	20

TestAmerica Denver

QC Association Summary

Client: Fahey Oil & Gas
Project/Site: Antelope Farms 1-24 - COGCC Table 910-1

TestAmerica Job ID: 280-88463-1

GC VOA

Prep Batch: 343784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-88463-1	SOUTH WALL #3	Total/NA	Solid	5030B	
280-88463-2	WEST WALL#4	Total/NA	Solid	5030B	
280-88463-3	BASE	Total/NA	Solid	5030B	
MB 280-343784/1-A	Method Blank	Total/NA	Solid	5030B	
LCS 280-343784/2-A	Lab Control Sample	Total/NA	Solid	5030B	
280-88463-1 MS	SOUTH WALL #3	Total/NA	Solid	5030B	
280-88463-1 MSD	SOUTH WALL #3	Total/NA	Solid	5030B	

Analysis Batch: 344485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-88463-1	SOUTH WALL #3	Total/NA	Solid	8015B	343784
280-88463-2	WEST WALL#4	Total/NA	Solid	8015B	343784
280-88463-3	BASE	Total/NA	Solid	8015B	343784
MB 280-343784/1-A	Method Blank	Total/NA	Solid	8015B	343784
LCS 280-343784/2-A	Lab Control Sample	Total/NA	Solid	8015B	343784
280-88463-1 MS	SOUTH WALL #3	Total/NA	Solid	8015B	343784
280-88463-1 MSD	SOUTH WALL #3	Total/NA	Solid	8015B	343784

GC Semi VOA

Prep Batch: 343449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-88463-1	SOUTH WALL #3	Total/NA	Solid	3546	
280-88463-2	WEST WALL#4	Total/NA	Solid	3546	
280-88463-3	BASE	Total/NA	Solid	3546	
MB 280-343449/1-A	Method Blank	Total/NA	Solid	3546	
LCS 280-343449/2-A	Lab Control Sample	Total/NA	Solid	3546	
280-88463-3 MS	BASE	Total/NA	Solid	3546	
280-88463-3 MSD	BASE	Total/NA	Solid	3546	

Analysis Batch: 344008

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-88463-1	SOUTH WALL #3	Total/NA	Solid	8015B	343449
280-88463-2	WEST WALL#4	Total/NA	Solid	8015B	343449
280-88463-3	BASE	Total/NA	Solid	8015B	343449
MB 280-343449/1-A	Method Blank	Total/NA	Solid	8015B	343449
LCS 280-343449/2-A	Lab Control Sample	Total/NA	Solid	8015B	343449
280-88463-3 MS	BASE	Total/NA	Solid	8015B	343449
280-88463-3 MSD	BASE	Total/NA	Solid	8015B	343449

General Chemistry

Analysis Batch: 343946

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-88463-1	SOUTH WALL #3	Total/NA	Solid	Moisture	
280-88463-2	WEST WALL#4	Total/NA	Solid	Moisture	
280-88463-3	BASE	Total/NA	Solid	Moisture	
280-88463-1 DU	SOUTH WALL #3	Total/NA	Solid	Moisture	

TestAmerica Denver

Lab Chronicle

Client: Fahey Oil & Gas
Project/Site: Antelope Farms 1-24 - COGCC Table 910-1

TestAmerica Job ID: 280-88463-1

Client Sample ID: SOUTH WALL #3

Date Collected: 09/19/16 00:00

Date Received: 09/19/16 13:40

Lab Sample ID: 280-88463-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			343946	09/27/16 11:06	KMS	TAL DEN

Client Sample ID: SOUTH WALL #3

Date Collected: 09/19/16 00:00

Date Received: 09/19/16 13:40

Lab Sample ID: 280-88463-1

Matrix: Solid

Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			10.12 g	10 mL	343784	09/26/16 14:50	NAS	TAL DEN
Total/NA	Analysis	8015B		1	0.1 mL	5 mL	344485	09/30/16 00:29	NAS	TAL DEN
Total/NA	Prep	3546			30.7 g	1 mL	343449	09/23/16 09:47	TEB	TAL DEN
Total/NA	Analysis	8015B		1			344008	09/27/16 19:34	AMB1	TAL DEN

Client Sample ID: WEST WALL#4

Date Collected: 09/19/16 00:00

Date Received: 09/19/16 13:40

Lab Sample ID: 280-88463-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			343946	09/27/16 11:06	KMS	TAL DEN

Client Sample ID: WEST WALL#4

Date Collected: 09/19/16 00:00

Date Received: 09/19/16 13:40

Lab Sample ID: 280-88463-2

Matrix: Solid

Percent Solids: 85.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			10.13 g	10 mL	343784	09/26/16 14:50	NAS	TAL DEN
Total/NA	Analysis	8015B		1	0.1 mL	5 mL	344485	09/30/16 01:43	NAS	TAL DEN
Total/NA	Prep	3546			30.9 g	1 mL	343449	09/23/16 09:47	TEB	TAL DEN
Total/NA	Analysis	8015B		1			344008	09/27/16 19:59	AMB1	TAL DEN

Client Sample ID: BASE

Date Collected: 09/19/16 00:00

Date Received: 09/19/16 13:40

Lab Sample ID: 280-88463-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			343946	09/27/16 11:06	KMS	TAL DEN

Client Sample ID: BASE

Date Collected: 09/19/16 00:00

Date Received: 09/19/16 13:40

Lab Sample ID: 280-88463-3

Matrix: Solid

Percent Solids: 96.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			10.14 g	10 mL	343784	09/26/16 14:50	NAS	TAL DEN

TestAmerica Denver

Lab Chronicle

Client: Fahey Oil & Gas
Project/Site: Antelope Farms 1-24 - COGCC Table 910-1

TestAmerica Job ID: 280-88463-1

Client Sample ID: BASE

Date Collected: 09/19/16 00:00

Date Received: 09/19/16 13:40

Lab Sample ID: 280-88463-3

Matrix: Solid

Percent Solids: 96.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015B		1	0.1 mL	5 mL	344485	09/30/16 02:08	NAS	TAL DEN
Total/NA	Prep	3546			30.7 g	1 mL	343449	09/23/16 09:47	TEB	TAL DEN
Total/NA	Analysis	8015B		1			344008	09/27/16 20:23	AMB1	TAL DEN

Laboratory References:

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Certification Summary

Client: Fahey Oil & Gas
Project/Site: Antelope Farms 1-24 - COGCC Table 910-1

TestAmerica Job ID: 280-88463-1

Laboratory: TestAmerica Denver


All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		2907.01	10-31-17
A2LA	ISO/IEC 17025		2907.01	10-31-17
Alabama	State Program	4	40730	09-30-12 *
Alaska (UST)	State Program	10	UST-30	04-05-17
Arizona	State Program	9	AZ0713	12-19-16
Arkansas DEQ	State Program	6	88-0687	06-01-17
California	State Program	9	2513	08-31-16 *
Connecticut	State Program	1	PH-0686	09-30-18
Florida	NELAP	4	E87667	06-30-17
Georgia	State Program	4	N/A	01-09-17
Illinois	NELAP	5	200017	04-30-17
Iowa	State Program	7	370	11-30-16
Kansas	NELAP	7	E-10166	04-30-17
Louisiana	NELAP	6	02096	06-30-17
Maine	State Program	1	CO0002	03-03-17
Minnesota	NELAP	5	8-999-405	12-31-16
Nevada	State Program	9	CO0026	07-31-17
New Hampshire	NELAP	1	205310	04-28-17
New Jersey	NELAP	2	CO004	06-30-17
New York	NELAP	2	11964	04-01-17
North Carolina (WW/SW)	State Program	4	358	12-31-16
North Dakota	State Program	8	R-034	01-09-17
Oklahoma	State Program	6	8614	08-31-17
Oregon	NELAP	10	4025	01-09-17
Pennsylvania	NELAP	3	68-00664	07-31-17
South Carolina	State Program	4	72002001	01-09-17
Texas	NELAP	6	T104704183-15-11	09-30-17
USDA	Federal		P330-13-00369	12-17-16
Utah	NELAP	8	CO00026	07-31-17
Virginia	NELAP	3	460232	06-14-17
Washington	State Program	10	C583	08-03-17
West Virginia DEP	State Program	3	354	11-30-16
Wisconsin	State Program	5	999615430	08-31-17
Wyoming (UST)	A2LA	8	2907.01	10-31-17

* Certification renewal pending - certification considered valid.

TestAmerica Denver

Chain of Custody Record

Client Information Client Contact: Mr. Gilbert Paine Company: Fahey Oil & Gas Address: 93 South CR 159 City: Strasburg State, Zip: CO, 80136 Phone: 303-709-0148(Tel) Email: cherokeeequipment@hotmail.com Project Name: Antelope Farms 1-24 - COGCC Table 910-1 Site:		Lab PM: Harrington, Danielle M E-Mail: danielle.harrington@testamericainc.com Carrier Tracking No(s): Lab No: 280-56239-19953.1 Page: Page 1 of 1 Job #:	
Due Date Requested: TAT Requested (days): PO #: Advance Payment Required WO #: Project #: 28015728 SSOW#:		Analysis Requested  280-88463 Chain of Custody	
Sample Identification Sample Date Sample Time Sample Type (C=comp, G=grab) Matrix (W=water, S=solid, O=waste/oil, BT=tissue, A=air) Preservation Code:		Perform MS/MSD (Yes or No) Field Filtered Sample (Yes or No) 8015B_DRO 8015B_GRO Total Number of Containers Special Instructions/Note:	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months	
Empty Kit Relinquished by: <i>Don</i> Relinquished by: <i>Don</i> Relinquished by:		Date: 9-19-16 1:40pm Date/Time: 9-19-16 1340 Date/Time:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 19.5 STES (40.0 transferred SPL) 9-22-16	

Chain of Custody Record

Client Information Client Contact: Mr. Gilbert Paine Company: Fahy Oil & Gas Address: 93 South CR 159 City: Strasburg State, Zip: CO, 80136 Phone: 303-709-0148(Tel) Email: cherokeeequipment@hotmail.com Project Name: Antelope Farms 1-24 - COGCC Table 910-1 Site:		Sampler: Harrington, Danielle M Lab PM: Harrington, Danielle M E-Mail: danielle.harrington@testamericainc.com		Carrier Tracking No(s): 280-56239-19953.1 Page: Page 1 of 1 Job #:	
Due Date Requested: TAT Requested (days): PO #: Advance Payment Required WO #: Project #: SSOW#:		Analysis Requested			
Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)			
Sample Identification South Wall South Wall West Wall West Wall Base Base		Sample Date 9-19-16 12:00 PM	Sample Time 12:00 PM	Sample Type (C=Comp, G=grab) Solid	Matrix (W=water, S=solid, O=oil, BT=Tissue, Acid) Solid
Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Total Number of Containers	
Special Instructions/Note:		Special Instructions/Note:			
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)					
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months					
Special Instructions/QC Requirements:					
Empty Kit Relinquished by:		Date:		Method of Shipment:	
Relinquished by:		Date/Time:		Company:	
Relinquished by:		Date/Time:		Company:	
Relinquished by:		Date/Time:		Company:	
Custody Seals Intact:		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:	

Login Sample Receipt Checklist

Client: Fahey Oil & Gas

Job Number: 280-88463-1

Login Number: 88463

List Source: TestAmerica Denver

List Number: 1

Creator: Woodworth, Sean P

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	Received same day of collection; chilling process has begun.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	Analyses listed on COC; individual samples not designated for specific analyses
Is the Field Sampler's name present on COC?	False	FIELD BLANK
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	