

SEP 23 2015



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www.GreenAnalytical.com

Conoco Phillips-Farmington
3401 30th Street
Farmington NM, 87401

Project: Braden Head
Project Name / Number: [none]
Project Manager: Kevin Fredrickson

Reported:
09/16/15 18:50

Lively #17

1508366-01 (Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

Chloride*	<10.0	10.0	5.00	mg/L	1	09/14/15	4500-Cl- C		LLG
pH*	10.4			pH Units	1	08/28/15	EPA150.1	H4	MAJ
Sulfate	2.51	10.0	1.68	mg/L	1	09/11/15	4500-SO42- E		ABP
TDS*	365	10.0		mg/L	1	09/02/15	EPA160.1		ABP

Luthy #1 30-045-05992

1508366-02 (Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

Chloride*	<10.0	10.0	5.00	mg/L	1	09/14/15	4500-Cl- C		LLG
pH*	9.50			pH Units	1	08/28/15	EPA150.1	H4	MAJ
Sulfate	229	50.0	8.40	mg/L	5	09/11/15	4500-SO42- E		ABP
TDS*	650	10.0		mg/L	1	09/02/15	EPA160.1		ABP

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

Debbie Zufelt, Reports Manager

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. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.



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16 September 2015

Kevin Fredrickson
Conoco Phillips-Farmington
3401 30th Street
Farmington, NM 87401
RE: Braden Head LUTHY #1 - API - 30-045-05992

Enclosed are the results of analyses for samples received by the laboratory on 08/27/15 13:05.
If you need any further assistance, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads 'Debbie Zufelt'.

Debbie Zufelt
Reports Manager

All accredited analytes contained in this report are denoted by an asterisk (*). For a complete list of accredited analytes please do not hesitate to contact us via any of the contact information contained in this report. All of our certifications can be viewed at <http://greenanalytical.com/certifications/>

Green Analytical Laboratories is NELAP accredited through the Texas Commission on Environmental Quality. Accreditation applies to drinking water and non-potable water matrices for trace metals and a variety of inorganic parameters. Green Analytical Laboratories is also accredited through the Colorado Department of Public Health and Environment and EPA region 8 for trace metals, Cyanide, Fluoride, Nitrate, and Nitrite in drinking water.

Our affiliate laboratory, Cardinal Laboratories, is also NELAP accredited through the Texas Commission on Environmental Quality for a variety of organic constituents in drinking water, non-potable water and solid matrices. Cardinal is also accredited for regulated VOCs, TTHM, and HAA-5 in drinking water.

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Project Name / Number: [none]
Project Manager: Kevin Fredrickson

Reported:
09/16/15 18:50

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Lively #17	1508366-01	Water	08/26/15 08:00	08/27/15 13:05
Luthy #1 api - 30-45-05992	1508366-02	Water	08/26/15 08:00	08/27/15 13:05

Green Analytical Laboratories

A handwritten signature in black ink that reads 'Debbie Zufelt'.

Debbie Zufelt, Reports Manager

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09/16/15 18:50

Notes and Definitions

Q1 Sample received outside of acceptable temperature range for analyses requiring cold storage.

H4 pH analysis performed more than 48 hours after sampling.

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
*Results reported on as received basis unless designated as dry.

RPD Relative Percent Difference

LCS Laboratory Control Sample (Blank Spike)

RL Report Limit

MDL Method Detection Limit

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Debbie Zufelt, Reports Manager

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Client: COP	Phone# 215-3184	Contact: Kari
Address: Farmington, NM	E-Mail Address: Kari.G.Kendall@COP.com	

GAL
GREEN
Analytical
Laboratories

75 Suttle Street
Durango, CO 81303
Phone: 970-247-4220
FAX: 970-247-4227

CHAIN OF CUSTODY RECORD

GAL Work Order # 1508-346

PO#

Project Name:

32.9°C
NO₂ u
50C
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Dgo

Sample Location: (1)BumperSpring, (2)CompressorDischarge, (3)Flowline, (4)Meter, (5)Oil Tank
(6)PigLauncher, (7)PigReceiver, (8)Pipeline, (9)Pit Tank, (10)PostFilter, (11)PreFilter
(12)SeparatorInlet, (13)SeparatorOutlet, (14)SeparatorDump, (15)SWDInlet
(16)SWDOutlet, (17)TransferPump, (18)ValveCan, (19)WaterTank, (20)Wellhead
(21)Other

Sample Type: (1)Casing, (2)CO2GasTube, (3)Coupon, (4)Water, (5)H2SGasTube, (6)Metals
(7)O2GasTube, (8)PipeSection, (9)Residual, (10)Sludge, (11)Solid, (12)Tubing, (13)Other

Collection							Preservative				Analyses Required			
Well Name (Sample Name)	Date	Time	Collected By: (Init.)	Sample Location	Sample Type	No. of Containers	Filtered: Y / N	Unpreserved	H2SO4	Other:	Iron and Manganese	Phosphate	Full Water API	Bradlow Hand
1. Lively #17 API-30-045-21325	8/26/15	8:00	MSO	20	4	1	N	✓						X
2. Luthy #1	8/26/15	8:00	MSO	20	4	1	N	✓						X
3.														
4.														
5.														
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18.														
19.														
20.														

Relinquished by:	Date:	Time:	Received By:	Date:	Time:
Charmaine Clain	8/27/15	1:05	Charmaine Clain	8/27/15	1305
Kangaroo	8/27/15	1655	Kangaroo Express	8/27/15	1655
	8-28-15	930	Michael Valentin		