



dzufelt@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

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

Project: Braden Head
Project Name / Number: [none]
Project Manager: Bill Eaves

Reported:
09/11/15 16:08

Burroughs Com 1 BH API-30-045-06149

1508312-01 (Water)

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

Chloride*	23.0	10.0	5.00	mg/L	1	09/11/15	4500-Cl- C		LLG
pH*	8.74			pH Units	1	08/25/15	EPA150.1	H4	MAJ
Sulfate	2740	500	84.0	mg/L	50	09/05/15	4500-SO42- E		ABP
TDS*	4090	10.0		mg/L	1	08/27/15	EPA160.1		ABP

Marron WN Fed 7 API-30-045-20443

1508312-02 (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	09/11/15	4500-Cl- C		LLG
pH*	8.71			pH Units	1	08/25/15	EPA150.1	H4	MAJ
Sulfate	588	100	16.8	mg/L	10	09/05/15	4500-SO42- E		ABP
TDS*	1220	10.0		mg/L	1	08/27/15	EPA160.1		ABP

Brookhaven Com D 5 API -30-045-06150

1508312-03 (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	09/11/15	4500-Cl- C		LLG
pH*	9.58			pH Units	1	08/25/15	EPA150.1	H4	MAJ
Sulfate	230	50.0	8.40	mg/L	5	09/05/15	4500-SO42- E		ABP
TDS*	530	10.0		mg/L	1	08/27/15	EPA160.1		ABP

Burroughs Com 1 INT API-30-045-06149

1508312-04 (Water)

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

Chloride*	22.0	10.0	5.00	mg/L	1	09/11/15	4500-Cl- C		LLG
pH*	9.77			pH Units	1	08/25/15	EPA150.1	H4	MAJ
Sulfate	2910	500	84.0	mg/L	50	09/05/15	4500-SO42- E		ABP

Green Analytical Laboratories

Debbie Zufelt

Debbie Zufelt, Reports Manager

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Burroughs Com 1 INT API-30-045-06149

1508312-04 (Water)

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

TDS*	4720	10.0		mg/L	1	08/27/15	EPA160.1		ABP
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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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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Client: COP Phone# 960-5425 Contact
Address: 3401 E. MAIN Farmington E-Mail Address: Bill.Eaves@conocophillips.com
97402



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

CHAIN OF CUSTODY RECORD

GAL Work Order # 1508-312

PO#

Project Name:

Sample Location: (1) Bumper Spring, (2) Compressor Discharge, (3) Flowline, (4) Meter, (5) Oil Tank
(6) Pig Launcher, (7) Pig Receiver, (8) Pipeline, (9) Pit Tank, (10) Post Filter, (11) Pre Filter
(12) Separator Inlet, (13) Separator Outlet, (14) Separator Dump, (15) SWD Inlet
(16) SWD Outlet, (17) Transfer Pump, (18) Valve Can, (19) Water Tank, (20) Wellhead
(21) Other

Sample Type: (1) Casing, (2) CO2 Gas Tube, (3) Coupon, (4) Water, (5) H2S Gas Tube, (6) Metals
(7) O2 Gas Tube, (8) Pipe Section, (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	Swivel
1. Burroughs Cam 1 BH	8-20-15	9:AM	CEP	21	4	1	N	N	-	-				X
2. MARMON WAI Fed 7	8-20-15	AM	CEP	21	4	1	N	-	-	-				X
3. Brookhaven Cam DS	8-20	AM	CEP	21	4	1	N	-	-	-				X
4. Burroughs 3 Cam 1 INT	8-20	AM	CEP	21	4	1	N	-	-	-				X
5.														
6.														
7.														
8.														
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12.														
13.														
14.														
15.														
16.														
17.														
18.														
19.														
20.														

Relinquished by: Bill Eaves Date: 8-21-15 Time: 2:50 Received By: Christa Chan Date: 8/21/15 Time: 1950
AS per M. Ke McGolden

Christa Chan 8/24/15 1655 Kangaroo Express 8/24/15 1655



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11 September 2015

Bill Eaves
Conoco Phillips-Farmington
3401 30th Street
Farmington, NM 87401
RE: Braden Head

Enclosed are the results of analyses for samples received by the laboratory on 08/21/15 13:50.
If you need any further assistance, please feel free to contact me.

Sincerely,

A handwritten signature in cursive script 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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Reported:
09/11/15 16:08

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Burroughs Com 1 BH	API-30-045-06149	Water	08/20/15 09:00	08/21/15 13:50
Marron WN Fed 7	API-30-045-20443	Water	08/20/15 09:00	08/21/15 13:50
Brookhaven Com D 5	API-30-045-06150	Water	08/20/15 09:00	08/21/15 13:50
Burroughs Com 1 INT	API-30-045-06149	Water	08/20/15 09:00	08/21/15 13:50

OIL CONS. DIV DIST. 3

SEP 15 2015

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Debbie Zufelt, Reports Manager

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