



30-045-07298

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www.GreenAnalytical.com

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

Project: Braden Head  
Project Name / Number: Area 22  
Project Manager: Darrell Savage

Reported:  
08/05/15 09:34

**Zachry #5**

1507145-01 (Water)

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

Chloride*	2400	200	100	mg/L	20	07/30/15	4500-Cl- C		ABP
Sulfate	3630	500	84.0	mg/L	50	07/20/15	4500-SO42- E		ABP
TDS*	5630	10.0		mg/L	1	07/20/15	EPA160.1		ABP

**McClanahan #16**

1507145-02 (Water)

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

Chloride*	540	100	50.0	mg/L	10	07/30/15	4500-Cl- C		ABP
Sulfate	5480	1000	168	mg/L	100	07/20/15	4500-SO42- E		ABP
TDS*	8300	10.0		mg/L	1	07/20/15	EPA160.1		ABP

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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OIL CONS. DIV DIST. 3

AUG 19 2015

Green Analytical Laboratories

*Debbie Zufelt*

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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### Notes and Definitions

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# (505) 320-2634 Contact: Darrell Savage  
 Address: 3401 E. 30th St. Farmington, NM 87402 E-Mail Address: darrell.q.savage@conocophillips.com



**CHAIN OF CUSTODY RECORD**  
 GAL Work Order # 1507-145  
 PO#  
 Project Name: Area 22

25.80  
 No. 1 & 2

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

Well Name (Sample Name)	Collection						Preservative				Analyses Required			
	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	Borden Head TDS, chloride Sulfates
1. ZACHRY # 5	7-14-15	8:30	DJ	20	4	1	N	Y						X
2. McClanahan # 16	7-14-15	9:57	DJ	20	4	1	N	Y						X
3.														
4.														
5.														
6.														
7.														
8.														
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14.														
15.														
16.														
17.														
18.														
19.														
20.														

Relinquished by: *Christin Clau* Date: 7-14-15 Time: 15:11  
 Received By: *Christin Clau* Date: 7/14/15 Time: 15:11  
*Christin Clau* 7/14/15 16:55 Kangaroo Express 7/14/15 16:55

Kangaroo 7-15-15 9:30 Michael Valentine



API #3004560308  
Zachry 5

API #3004507298  
McClanahan 16



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05 August 2015

Darrell Savage  
Conoco Phillips-Farmington  
3401 30th Street  
Farmington, NM 87401  
RE: Braden Head

**OIL CONS. DIV DIST. 3**  
**AUG 19 2015**

Enclosed are the results of analyses for samples received by the laboratory on 07/14/15 15:11.  
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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08/05/15 09:34

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Zachry #5	1507145-01	Water	07/14/15 08:30	07/14/15 15:11
McClanahan #16	1507145-02	Water	07/14/15 09:57	07/14/15 15:11

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Debbie Zufelt, Reports Manager

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