

Riddle G #3  
API # 30-045-21156



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[www.greenanalytical.com](http://www.greenanalytical.com)

28 August 2015

OIL CONS. DIV DIST. 3

SEP 03 2015

Kevin Fredrickson  
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 08/11/15 15:45.  
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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3401 30th Street  
Farmington NM, 87401

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

Reported:  
08/28/15 11:42

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Sharp #2A	1508170-01	Water	08/06/15 09:00	08/11/15 15:45
Riddle G#3	1508170-02	Water	08/06/15 09:00	08/11/15 15:45

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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**Sharp #2A**  
**1508170-01 (Water)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
<b>General Chemistry</b>									
Chloride*	21.0	10.0	5.00	mg/L	1	08/24/15	4500-Cl- C		LLG
pH*	11.1			pH Units	1	08/17/15	EPA150.1	H1	MAJ
Sulfate	3320	500	84.0	mg/L	50	08/27/15	4500-SO42- E		ABP
TDS*	5190	10.0		mg/L	1	08/14/15	EPA160.1	H2	ABP

**Riddle G#3**

**1508170-02 (Water)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
<b>General Chemistry</b>									
Chloride*	18.0	10.0	5.00	mg/L	1	08/24/15	4500-Cl- C		LLG
pH*	8.89			pH Units	1	08/17/15	EPA150.1	H1	MAJ
Sulfate	4070	500	84.0	mg/L	50	08/27/15	4500-SO42- E		ABP
TDS*	5110	10.0		mg/L	1	08/14/15	EPA160.1		ABP

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Debbie Zufelt, Reports Manager

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Project Name / Number: [none]  
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Reported:  
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### Notes and Definitions

H2 Sample analysis performed past hold time specified by the method.  
H1 Sample was received several days after collected and subsequently analyzed past hold time.  
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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1508-170

Client: COP <i>Kevin Fredrickson</i>	Phone#	Contact
Address: <i>5525 Hart 64</i>	E-Mail Address: <i>Kevin.G.Fredrickson@ConocoPhillips</i>	



75 Suttle Street  
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Phone: 970-247-4220  
FAX: 970-247-4227

### CHAIN OF CUSTODY RECORD

GAL Work Order # *1508-170*

PO#

Project Name:

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	Barde
01 1. <i>Shaco #2A</i>	<i>8-6-15</i>	<i>9:AM</i>	<i>COP</i>	<i>21</i>	<i>4</i>		<i>N</i>	<i>N</i>						<i>X</i>
02 2. <i>Riddle G #3</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>		<i>"</i>	<i>"</i>						<i>X</i>
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Relinquished by: <i>Kevin Fredrickson</i>	Date: <i>8/11/15</i> Time: <i>3:45</i>	Received By: <i>Kevin Fredrickson</i>	Date: <i>8/11/15</i> Time: <i>1545</i>
<i>Kevin Fredrickson</i>	<i>8/11/15 1655</i>	<i>Kevin Fredrickson</i>	<i>8/11/15 1655</i>

Kangaroo ~~8-12-15~~

Dublin Zupelt

20°C





Well Name: RIDDLE G #3

# Current Schematic

API / UWI 3004521156	Surface Legal Location 017-028N-008W-I	Field Name BLANCO P.C. SOUTH (GAS)	License No.	State/Province NEW MEXICO	Well Configuration Type
Ground Elevation (ft) 5,767.00	Original KBRT Elevation (ft) 5,778.00	KB-Ground Distance (ft) 11.00	KB-Casing Flange Distance (ft)	KB-Tubing Hanger Distance (ft)	

Original Hole, 9/2/2015 11:31:13 AM

