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28 September 2015

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

RE: Braden Head Ge-Ele-Gu-Lith-E #2 - 30-045-11834; Whan Jones #1 - API - 30-045-05660; Hun-Nop-Pi - API - 30-045-05761

Enclosed are the results of analyses for samples received by the laboratory on 09/14/15 15:45.
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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Conoco Phillips-Farmington
3401 30th Street
Farmington NM, 87401

Project: Braden Head
Project Name / Number: Area #21
Project Manager: Darrell Savage

Reported:
09/28/15 13:39

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GE-ELE-GU-LITH -E2 API - 30-045-11834	1509154-01	Water	09/14/15 12:20	09/14/15 15:45
WHAN JONES #1 API - 30-045-05660	1509154-02	Water	09/14/15 13:05	09/14/15 15:45
HUN-NOP-PI #1 API - 30-045-05761	1509154-03	Water	09/14/15 13:36	09/14/15 15:45

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

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SEP 30 2015

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GE-ELE-GU-LITH -E2 API - 30-045-11834

1509154-01 (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	09/28/15	4500-Cl- C		LLG
pH*	10.7			pH Units	1	09/15/15	EPA150.1		MAJ
Sulfate	142	20.0	3.36	mg/L	2	09/26/15	4500-SO42- E		ABP
TDS*	660	10.0		mg/L	1	09/16/15	EPA160.1		ABP

WHAN JONES #1 - API - 30-045-05660

1509154-02 (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	09/28/15	4500-Cl- C		LLG
pH*	10.9			pH Units	1	09/15/15	EPA150.1		MAJ
Sulfate	133	20.0	3.36	mg/L	2	09/26/15	4500-SO42- E		ABP
TDS*	735	10.0		mg/L	1	09/16/15	EPA160.1		ABP

HUN-NOP-PI #1 API - 30-045-05761

1509154-03 (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	09/28/15	4500-Cl- C		LLG
pH*	9.74			pH Units	1	09/15/15	EPA150.1		MAJ
Sulfate	133	20.0	3.36	mg/L	2	09/26/15	4500-SO42- E		ABP
TDS*	535	10.0		mg/L	1	09/16/15	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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Reported:
09/28/15 13:39

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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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 #	1509-154
PO#	
Project Name:	Alea #21

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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 - <u>Braden Head</u>
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	Braden Head Hydrate Analysis	
1. GE-ECE-GU-LITH-EZ	9-14-15	12:20	DS	21	4	1	N	Y						X	
2. WHAN JONES #1	11	13:05	DS	21	4	1	N	Y						X	
3. HUN-REF-PF #1	11	13:36	DS	21	4	1	N	Y						X	
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Relinquished by:	Date:	Time:	Received By:	Date:	Time:
<i>[Signature]</i>	9-14-15	15:45	<i>[Signature]</i>	9/14/15	1545
Christie Clark	9/14/15	16:55	Kangaroo	9/14/15	16:55
			Kangaroo 915-15430	Michael Valentine	

