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Conoco Phillips-Farmington

3401 30th Street

Farmington NM, 87401

Project: Formation Comparison

Project Name / Number: Area 7

Project Manager: Darrell Savage

30-045-1181694/14/16 12:03

Rock Island #1

1604004-01 (Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
General Chemistry									
Alkalinity, Bicarbonate*	51.0	10.0		mg/L	1	04/12/16	2320 B		KDG
Alkalinity, Carbonate*	<10.0	10.0		mg/L	1	04/12/16	2320 B		KDG
Chloride	217	50.0	2.60	mg/L	50	04/11/16	EPA300.0		JDA
TDS	525	10.0		mg/L	1	04/06/16	EPA160.1		JDA
Sulfate	25.0	50.0	3.07	mg/L	50	04/11/16	EPA300.0	E8	JDA
Potentially Dissolved Metals by ICP									
Calcium*	17.1	0.400	0.055	mg/L	20	04/04/16	EPA200.7		JLM
Iron*	37.0	1.00	0.070	mg/L	20	04/04/16	EPA200.7		JLM
Magnesium*	< 2.00	2.00	0.648	mg/L	20	04/04/16	EPA200.7		JLM
Sodium*	153	20.0	6.11	mg/L	20	04/04/16	EPA200.7		JLM

Green Analytical Laboratories

Deldie Zufett

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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Reported:

04/14/16 12:03

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

Project Manager: Darrell Savage

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04/14/16 12:03

Notes and Definitions

E8 Possible interference from sample matrix. Sample required dilution to eliminate an inference resulting in and elevated reporting limit.

Sample cannot be analyzed at a lesser dilution with this method.

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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Deldie Zufett

Client: COP	Phone#	(505)	320-2634	Contact:	Darrell Savage
Address: 3401 E. 30th St. Farmington, NM 87402	E-Mail Add	ress:	darrell.q.savage	@conoco	phillips.com



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

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CHAIN	OF	CUS	IODY	RECO)RL

GAL Work Order #

PO#

Project Name: Alea

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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

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

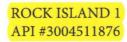
Coll	ection						Pres	serva	ative		An	alyse	s Re	equired
Well Name (Sample Name)	Date	Time	Collected By: (Init.)	Sample Location	Sample Type	No. of Containers	Filtered: Y / N	Unpreserved	H2SO4	Other:	Iron and Manganese	Phosphate	Full Water API	Formational Company
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Mron Clan	3/3/1/16	1655	Kanggoo Type 5	3/3,11	6 1650

Kangaros 4-1-16 Wichael Valentiel

Page 6 of 7

	· CIC water	sampling form of value	lo legani	read Main	Materifor	tab) (1	HARLEN AND PROPERTY P	eegen for thu	itrations)	The Reserve
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Well Name	Sampler Initials	Collection data & time	Temp. (F)	Sample PSI	Water color / clarity	PH	CO2 Partial pressure If requested			Comments
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75 Suttle Street Durango, CO 81303 970.247.4220 Phone 970.247.4227 Fax www.greenanalytical.com

14 April 2016

OIL CONS. DIV DIST. 3
JUN 2 2 2016

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

RE: Formation Comparison

Enclosed are the results of analyses for samples received by the laboratory on 03/31/16 15:44. If you need any further assistance, please feel free to contact me.

Sincerely,

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 through the Colorado Department of Public Health and Environment and EPA region 8.

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Reported:

04/14/16 12:03

ANALYTICAL REPORT FOR SAMPLES

Sample ID

Laboratory ID

Matrix

Date Sampled

Date Received

Rock Island #1

1604004-01

Water

03/31/16 10:03

03/31/16 15:44

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