



30-039-07890

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www.GreenAnalytical.com

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

Project: Formation Comparison
Project Name / Number: [none]
Project Manager: Kevin Fredrickson

Reported:
07/17/17 10:25

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
San Juan 30-6 Unit 67	1707096-01	Water	07/12/17 08:00	07/12/17 13:35

OIL CONS. DIV DIST. 3
JUL 20 2017

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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San Juan 30-6 Unit 67

1707096-01 (Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
General Chemistry									
Alkalinity, Bicarbonate as CaCO ₃ *	284	10.0		mg/L	1	07/14/17	2320 B		LLG
Alkalinity, Carbonate as CaCO ₃ *	<10.0	10.0		mg/L	1	07/14/17	2320 B		LLG
Chloride*	9.57	10.0	1.43	mg/L	10	07/14/17	EPA300.0		JDA
Total Dissolved Solids*	930	10.0		mg/L	1	07/14/17	EPA160.1		LLG
Sulfate*	3.66	10.0	1.56	mg/L	10	07/14/17	EPA300.0		JDA
Potentially Dissolved Metals by ICP									
Calcium*	74.4	2.00	0.717	mg/L	20	07/14/17	EPA200.7		JDA
Iron*	16.1	1.00	0.281	mg/L	20	07/14/17	EPA200.7		JDA
Magnesium*	5.66	2.00	0.513	mg/L	20	07/14/17	EPA200.7		JDA
Sodium*	119	20.0	1.74	mg/L	20	07/14/17	EPA200.7		JDA

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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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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Client: COP	Phone# (505) 215-3184	Contact: Kevin Fredrickson
Address: 5525 Hwy 64, Farmington, NM 87401	E-Mail Address: Kevin.G.Fredrickson@conocophillips.com	

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

CHAIN OF CUSTODY RECORD
GAL Work Order # <u>1707-096-01</u>
PO#
Project Name:

Rush

Sample Location: <u>29.7°C</u> Sample Type:	(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
	(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	Formational com
San Juan 30-6 Unit 67	7/12/2017	8:00 AM	MSO	20	4	1	N	x						x
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Relinquished by: <i>[Signature]</i>	Date: <u>7-12-17</u>	Time: <u>1:35 pm</u>	Received By: <i>[Signature]</i>	Date: <u>7-12-17</u>	Time: <u>1335</u>
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17 July 2017

Kevin Fredrickson
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 07/12/17 13:35.
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

OIL CONS. DIV DIST. 3
JUL 20 2017

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.