

API #3004560308

Zachry 5

API #3004507298

McClanahan 16



75 Suttle Street
Durango, CO 81303
970.247.4220 Phone
970.247.4227 Fax
www.greenanalytical.com

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



dzufelt@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

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

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

OIL CONS. DIV DIST. 3

AUG 19 2015

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

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Page 2 of 5



dzufelt@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

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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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Debbie Zufelt

Debbie Zufelt, Reports Manager

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Farmington NM, 87401

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

Reported:
08/05/15 09:34

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

Green Analytical Laboratories

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.g.savage@conocophillips.com	



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

CHAIN OF CUSTODY RECORD
GAL Work Order # <u>1507-145</u>
PO#
Project Name: <u>Area 22</u>

25.8°C
NO1 u u

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	Barium Head TDS Chlorides Sulfates
1. <u>ZACHRY # 5</u>	<u>7-14-15</u>	<u>8:30</u>	<u>DS</u>	<u>20</u>	<u>4</u>	<u>1</u>	<u>N</u>	<u>Y</u>						<u>X</u>
2. <u>McClanahan # 16</u>	<u>7-14-15</u>	<u>9:57</u>	<u>DS</u>	<u>20</u>	<u>4</u>	<u>1</u>	<u>N</u>	<u>Y</u>						<u>X</u>
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Relinquished by:	Date:	Time:	Received By:	Date:	Time:
<u>Darrell Savage</u>	<u>7-14-15</u>	<u>15:11</u>	<u>Christin Clam</u>	<u>7/14/15</u>	<u>15:11</u>
<u>Christin Clam</u>	<u>7/14/15</u>	<u>16:55</u>	<u>Kangaroo Express</u>	<u>7/14/15</u>	<u>16:55</u>

Kangaroo 7-15-15
930 Michael Valentine

SAMPLE IDENTIFICATION							ANIONS		pH		OTHER PROPERTIES						TEST METHODS
API	Legal Well Name	Vendor	Sample ID	Sample Date	Sample Location	Sample Type	Chloride (mg/L)	Sulfate (mg/L)	Field pH	Calculated pH	Field Alkalinity (ppm)	Specific Gravity	TDS (ppm)	Total Hardness as CaCO ₃ (mg/L)	Conductivity (µS/cm)	Analytical Test Methods_List all used	
3004560308	ZACHRY 5	GREEN LAB	3004560308-GL-1507_145_01	07/14/15	Bradenhead	Water	2400	3630	9.15				5630			SM4500-Cl-C, EPA160.1, SM4500-SO4-E	
3004507298	MCCLANAHAN 16	GREEN LAB	3004507298-GL-1507_145_02	07/14/15	Bradenhead	Water	540	5480	10.34				8300			SM4500-Cl-C, EPA160.1, SM4500-SO4-E	