



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

12 May 2016

Darrell Savage
Conoco Phillips-Farmington
3401 30th Street
Farmington, NM 87401
RE: PO4 & API+ & Fe/Mn

Enclosed are the results of analyses for samples received by the laboratory on 04/27/16 15:40.
If you need any further assistance, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Debbie Zufelt". The signature is written in a cursive, flowing style.

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.



Conoco Phillips-Farmington 3401 30th Street Farmington NM, 87401	Project: PO4 & API+ & Fe/Mn Project Name / Number: Area 4 Project Manager: Darrell Savage	Reported: 05/12/16 13:15
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Howell A #1B	1604242-01	Water	04/25/16 12:10	04/27/16 15:40
Howell A #300	1604242-02	Water	04/25/16 13:30	04/27/16 15:40
EPNG Com A #2A	1604242-03	Water	04/25/16 14:07	04/27/16 15:40
Howell J #300	1604242-04	Water	04/25/16 13:00	04/27/16 15:40
Burnt Mesa #1B	1604242-05	Water	04/26/16 13:10	04/27/16 15:40
Allison Unit #130S	1604242-06	Water	04/26/16 10:20	04/27/16 15:40
EPNG B #100S	1604242-07	Water	04/26/16 12:16	04/27/16 15:40
Allison Unit Com #144	1604242-08	Water	04/26/16 12:43	04/27/16 15:40
Burnt Mesa #101	1604242-09	Water	04/26/16 13:50	04/27/16 15:40

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Howell A #1B

1604242-01 (Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

Alkalinity, Bicarbonate*	64.0	10.0		mg/L	1	05/03/16	2320 B		KDG
Alkalinity, Carbonate*	<10.0	10.0		mg/L	1	05/03/16	2320 B		KDG
Alkalinity, Hydroxide*	<10.0	10.0		mg/L	1	05/03/16	2320 B		KDG
Alkalinity, Total*	64.0	10.0		mg/L	1	05/03/16	2320 B		KDG
Chloride	49.0	50.0	2.60	mg/L	50	05/04/16	EPA300.0		JDA
Conductivity*	318	10.0		uS/cm	1	04/28/16	2510 B		KDG
pH*	7.53			pH Units	1	04/28/16	EPA150.1	H1	KDG
Phosphate (PO4)	5.62	0.768	0.276	mg/L	5	05/11/16	EPA365.3/Calc		LLG
Phosphorus, Total	1.83	0.250	0.0900	mg/L	5	05/11/16	EPA365.3		LLG
Resistivity	3140			ohm/cm	1	04/29/16	2510 B		KDG
Total Dissolved Solids	110	10.0		mg/L	1	05/03/16	EPA160.1		KDG
Specific Gravity	0.9980			N/A	1	04/29/16	Hydrometer		KDG
Sulfate	<3.07	50.0	3.07	mg/L	50	05/04/16	EPA300.0		JDA

Potentially Dissolved Metals by ICP

Hardness	<2.80	9.23	2.80	mg/L	20	05/02/16	2340 B		JLM
Silica Potentially Dissolved	<10.7	21.4	10.7	mg/L	20	05/02/16	2340 B		JLM
Barium*	<0.200	0.200	0.053	mg/L	20	05/02/16	EPA200.7		JLM
Calcium*	0.739	0.400	0.055	mg/L	20	05/02/16	EPA200.7		JLM
Iron*	25.5	1.00	0.070	mg/L	20	05/02/16	EPA200.7		JLM
Lead*	<2.00	2.00	0.492	mg/L	20	05/02/16	EPA200.7		JLM
Magnesium*	<0.648	2.00	0.648	mg/L	20	05/02/16	EPA200.7		JLM
Manganese*	0.163	0.100	0.015	mg/L	20	05/02/16	EPA200.7		JLM
Potassium*	<20.0	20.0	6.70	mg/L	20	05/02/16	EPA200.7		JLM
Silicon	<10.0	10.0	4.99	mg/L	20	05/02/16	EPA200.7		JLM
Sodium*	<20.0	20.0	6.11	mg/L	20	05/02/16	EPA200.7		JLM
Strontium*	<2.00	2.00	0.007	mg/L	20	05/02/16	EPA200.7		JLM
Zinc*	<1.00	1.00	0.044	mg/L	20	05/02/16	EPA200.7		JLM

Cation/Anion Balance **-9.62**

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Howell A #300

1604242-02 (Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

Alkalinity, Bicarbonate*	8000	10.0		mg/L	100	05/03/16	2320 B		KDG
Alkalinity, Carbonate*	<10.0	10.0		mg/L	100	05/03/16	2320 B		KDG
Alkalinity, Hydroxide*	<10.0	10.0		mg/L	100	05/03/16	2320 B		KDG
Alkalinity, Total*	8000	10.0		mg/L	100	05/03/16	2320 B		KDG
Chloride	2390	1000	51.9	mg/L	1000	05/03/16	EPA300.0		JDA
Conductivity*	18400	10.0		uS/cm	1	04/28/16	2510 B		KDG
pH*	7.24			pH Units	1	04/28/16	EPA150.1	H1	KDG
Resistivity	54.4			ohm/cm	1	04/29/16	2510 B		KDG
Total Dissolved Solids	11100	10.0		mg/L	1	05/03/16	EPA160.1		KDG
Specific Gravity	1.010			N/A	1	04/29/16	Hydrometer		KDG
Sulfate	<61.5	1000	61.5	mg/L	1000	05/03/16	EPA300.0		JDA

Potentially Dissolved Metals by ICP

Hardness	159	9.23	2.80	mg/L	20	05/02/16	2340 B		JLM
Silica Potentially Dissolved	30.8	21.4	10.7	mg/L	20	05/02/16	2340 B		JLM
Barium*	30.9	0.200	0.053	mg/L	20	05/02/16	EPA200.7		JLM
Calcium*	29.7	0.400	0.055	mg/L	20	05/02/16	EPA200.7		JLM
Iron*	118	1.00	0.070	mg/L	20	05/02/16	EPA200.7		JLM
Lead*	4.33	2.00	0.492	mg/L	20	05/02/16	EPA200.7		JLM
Magnesium*	20.6	2.00	0.648	mg/L	20	05/02/16	EPA200.7		JLM
Manganese*	1.42	0.100	0.015	mg/L	20	05/02/16	EPA200.7		JLM
Potassium*	115	20.0	6.70	mg/L	20	05/02/16	EPA200.7		JLM
Silicon	14.4	10.0	4.99	mg/L	20	05/02/16	EPA200.7		JLM
Sodium*	4070	20.0	6.11	mg/L	20	05/02/16	EPA200.7		JLM
Strontium*	9.68	2.00	0.007	mg/L	20	05/02/16	EPA200.7		JLM
Zinc*	1.73	1.00	0.044	mg/L	20	05/02/16	EPA200.7		JLM
Cation/Anion Balance	-2.89								

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EPNG Com A #2A

1604242-03 (Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

Alkalinity, Bicarbonate*	76.0	10.0		mg/L	1	05/03/16	2320 B		KDG
Alkalinity, Carbonate*	<10.0	10.0		mg/L	1	05/03/16	2320 B		KDG
Alkalinity, Hydroxide*	<10.0	10.0		mg/L	1	05/03/16	2320 B		KDG
Alkalinity, Total*	76.0	10.0		mg/L	1	05/03/16	2320 B		KDG
Chloride	71.8	50.0	2.60	mg/L	50	05/04/16	EPA300.0		JDA
Conductivity*	420	10.0		uS/cm	1	04/28/16	2510 B		KDG
pH*	6.25			pH Units	1	04/28/16	EPA150.1	H1	KDG
Phosphate (PO4)	4.93	0.768	0.276	mg/L	5	05/11/16	EPA365.3/Calc		LLG
Phosphorus, Total	1.61	0.250	0.0900	mg/L	5	05/11/16	EPA365.3		LLG
Resistivity	2380			ohm/cm	1	04/29/16	2510 B		KDG
Total Dissolved Solids	155	10.0		mg/L	1	05/06/16	EPA160.1		KDG
Specific Gravity	0.9990			N/A	1	04/29/16	Hydrometer		KDG
Sulfate	<3.07	50.0	3.07	mg/L	50	05/04/16	EPA300.0		JDA

Potentially Dissolved Metals by ICP

Hardness	5.30	9.23	2.80	mg/L	20	05/02/16	2340 B		JLM
Silica Potentially Dissolved	<10.7	21.4	10.7	mg/L	20	05/02/16	2340 B		JLM
Barium*	<0.200	0.200	0.053	mg/L	20	05/02/16	EPA200.7		JLM
Calcium*	2.12	0.400	0.055	mg/L	20	05/02/16	EPA200.7		JLM
Iron*	28.5	1.00	0.070	mg/L	20	05/02/16	EPA200.7		JLM
Lead*	<2.00	2.00	0.492	mg/L	20	05/02/16	EPA200.7		JLM
Magnesium*	<0.648	2.00	0.648	mg/L	20	05/02/16	EPA200.7		JLM
Manganese*	0.282	0.100	0.015	mg/L	20	05/02/16	EPA200.7		JLM
Potassium*	<20.0	20.0	6.70	mg/L	20	05/02/16	EPA200.7		JLM
Silicon	<10.0	10.0	4.99	mg/L	20	05/02/16	EPA200.7		JLM
Sodium*	46.9	20.0	6.11	mg/L	20	05/02/16	EPA200.7		JLM
Strontium*	<2.00	2.00	0.007	mg/L	20	05/02/16	EPA200.7		JLM
Zinc*	<1.00	1.00	0.044	mg/L	20	05/02/16	EPA200.7		JLM

Cation/Anion Balance **2.42**

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Burnt Mesa #1B

1604242-05 (Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

Alkalinity, Bicarbonate*	100	10.0		mg/L	1	05/03/16	2320 B		KDG
Alkalinity, Carbonate*	<10.0	10.0		mg/L	1	05/03/16	2320 B		KDG
Alkalinity, Hydroxide*	<10.0	10.0		mg/L	1	05/03/16	2320 B		KDG
Alkalinity, Total*	100	10.0		mg/L	1	05/03/16	2320 B		KDG
Chloride	74.2	50.0	2.60	mg/L	50	05/04/16	EPA300.0		JDA
Conductivity*	417	10.0		uS/cm	1	04/28/16	2510 B		KDG
pH*	6.34			pH Units	1	04/28/16	EPA150.1		KDG
Resistivity	2400			ohm/cm	1	04/29/16	2510 B		KDG
Total Dissolved Solids	195	10.0		mg/L	1	05/06/16	EPA160.1		KDG
Specific Gravity	1.001			N/A	1	04/29/16	Hydrometer		KDG
Sulfate	<3.07	50.0	3.07	mg/L	50	05/04/16	EPA300.0		JDA

Potentially Dissolved Metals by ICP

Hardness	4.12	9.23	2.80	mg/L	20	05/02/16	2340 B		JLM
Silica Potentially Dissolved	<10.7	21.4	10.7	mg/L	20	05/02/16	2340 B		JLM
Barium*	<0.200	0.200	0.053	mg/L	20	05/02/16	EPA200.7		JLM
Calcium*	1.65	0.400	0.055	mg/L	20	05/02/16	EPA200.7		JLM
Iron*	40.6	1.00	0.070	mg/L	20	05/02/16	EPA200.7		JLM
Lead*	<2.00	2.00	0.492	mg/L	20	05/02/16	EPA200.7		JLM
Magnesium*	<0.648	2.00	0.648	mg/L	20	05/02/16	EPA200.7		JLM
Manganese*	0.323	0.100	0.015	mg/L	20	05/02/16	EPA200.7		JLM
Potassium*	<20.0	20.0	6.70	mg/L	20	05/02/16	EPA200.7		JLM
Silicon	<10.0	10.0	4.99	mg/L	20	05/02/16	EPA200.7		JLM
Sodium*	65.6	20.0	6.11	mg/L	20	05/02/16	EPA200.7		JLM
Strontium*	<2.00	2.00	0.007	mg/L	20	05/02/16	EPA200.7		JLM
Zinc*	<1.00	1.00	0.044	mg/L	20	05/02/16	EPA200.7		JLM

Cation/Anion Balance 9.33

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EPNG B #100S

1604242-07 (Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Potentially Dissolved Metals by ICP

Iron*	44.9	1.00	0.070	mg/L	20	05/02/16	EPA200.7		JLM
Manganese*	0.805	0.100	0.015	mg/L	20	05/02/16	EPA200.7		JLM
Cation/Anion Balance	100.								

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Allison Unit Com #144

1604242-08 (Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Potentially Dissolved Metals by ICP

Iron*	9.32	1.00	0.070	mg/L	20	05/02/16	EPA200.7		JLM
Manganese*	<0.100	0.100	0.015	mg/L	20	05/02/16	EPA200.7		JLM

Cation/Anion Balance **100.**

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Burnt Mesa #101

1604242-09 (Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Potentially Dissolved Metals by ICP

Iron*	4.25	1.00	0.070	mg/L	20	05/02/16	EPA200.7		JLM
Manganese*	<0.100	0.100	0.015	mg/L	20	05/02/16	EPA200.7		JLM

Cation/Anion Balance **100.**

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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

- 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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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 # 1604-242
 PO#
 Project Name: Area 4

*19.8c
No, ce
3.50c
on ice, Dy*

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

Well Name (Sample Name)	Collection			Collected By: (Init.)	Sample Location	Sample Type	No. of Containers	Preservative				Analyses Required		
	Date	Time						Filtered: Y/N	Unpreserved	H2SO4	Other:	Iron and Manganese	Phosphate	Full Water API
1. Howell A # 200 #1B	4-25-16	12:10	DS	20	4	1	N	Y			X	X	X	Q1, Q3
2. Howell A # 300	11	13:30	DS	20	4	1	N	Y			X	X	X	
3. EPNG com A # 2A	11	14:07	DS	20	4	1	N	Y			X	X	X	Q3
4. Howell J # 300	11	13:00	DS	20	4	1	N	Y			X	X	X	Q3
5. Burnt mesa # 1B	4-26-16	13:10	DS	20	4	1	N	Y			X	X	X	Q3
6. Allison unit # 1305	11	10:20	DS	20	4	1	N	Y			X	X		Q3
7. EPNG B # 1005	11	12:16	DS	20	4	1	N	Y			X	X		
8. Allison unit com # 144	11	12:43	DS	20	4	1	N	Y			X	X		
9. Burnt mesa # 101	11	13:50	DS	20	4	1	N	Y			X			
10.														
11.														
12.														
13.														
14.														
15.														
16.														
17.														
18.														
19.														
20.														

Relinquished by: Darrell Savage Date: 4-27-16 Time: 15:40
Christen Clark Date: 4/27/16 Time: 16:55

Received By: Christen Clark Date: 4/27/16 Time: 15:40
Kangaroo Express Date: 4/27/16 Time: 16:55

Kangaroo 4-28-16 10:00 Michael Valentin Page 14 of 16

Well Name	Sampler Initials	Collection date & time	Temp. (F)	Sample PSI	Water color / clarity	PH	Dissolved CO2 (Titration) turns X 4 = PPM	Total Alkalinity (Titration) turns X 10 = PPM	CO2 Partial pressure	Comments
Howell A #1B	DS	4-25-16 12:10	51	84	WHT	6.5	540	105	0.92	
Howell A #300	DS	4-25-16 13:30	59.2	3	CCR	7.3	544	5550	26.4	
EPNG Com A #2A	DS	4-25-16 14:07	64.2	11	CCR	5.9	4204	260	1.6	
"Residual" water sample only (requires 60 ML water)										
Well Name	Sampler Initials	Collection date & time	Temp. (F)	Sample PSI	Water color / clarity	PH	CO2 Partial pressure if requested	Comments		
Howell J #300	DS	4-25-16 13:00	57	3	CCR	7.3				
"Solid" sample collected for (solvent testing)										
Well Name	Sampler Initials	Collection date & time	Type Paraffin/Scale/Ot her	Norm test Y/N	Acid Soluble Y/N	Other tests conducted	Comments			

