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30 September 2020

NMOCD REC'D 10/12/20

Jason Hare
Baker Hughes
1215 Basin Rd
Farmington, NM 87401

RE: pH/EC, TDS, CI, F, SO4

Dellie Zufett

Enclosed are the results of analyses for samples received by the laboratory on 09/29/20 08:35. 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 <a href="http://greenanalytical.com/certifications/">http://greenanalytical.com/certifications/</a>

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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Baker Hughes Project: pH/EC, TDS, Cl, F, SO4

1215 Basin RdProject Name / Number: [none]Reported:Farmington NM, 87401Project Manager: Jason Hare09/30/20 15:47

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
Howell K #4	2009327-01	Water	08/28/20 00:00	09/29/20 08:35	H1, Q1

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Farmington NM, 87401 Project Manager: Jason Hare 09/30/20 15:47

# Howell K #4

# 2009327-01 (Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
<b>General Chemistry</b>									
Chloride*	389	200	17.7	mg/L	200	09/29/20 12:46	EPA300.0	H1	JDA
Conductivity*	19200	1.00		umho/cm @ 25.0°C	1	09/29/20 09:30	2510 B	H1	VJW
Fluoride*	<1.94	20.0	1.94	mg/L	200	09/29/20 12:46	EPA300.0	H1	JDA
pH*	11.9			pH Units	1	09/29/20 10:35	EPA150.1	H1	VJW
Total Dissolved Solids*	13900	20.0		mg/L	2	09/29/20 16:35	EPA160.1	H1	VJW
Sulfate*	8510	200	30.5	mg/L	200	09/29/20 12:46	EPA300.0	H1	JDA

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# **General Chemistry - Quality Control**

		Reporting		Spike	Source		%REC		RPD			
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes		
Batch B202043 - General Prep - Wet Chem												
Blank (B202043-BLK1)			Prepa	red & Ana	lyzed: 09/29	9/20						
Total Dissolved Solids	ND	10.0	mg/L									
Duplicate (B202043-DUP1)	Sou	rce: 2009301-	01 Prepa	red & Ana	lyzed: 09/29	9/20						
Total Dissolved Solids	320	10.0	mg/L		300			6.43	20			
Reference (B202043-SRM1)			Prepa	red & Ana	lyzed: 09/29	9/20						
Total Dissolved Solids	370	10.0	mg/L	380		97.4	85-115					
Batch B202050 - General Prep - Wet Chem												
Blank (B202050-BLK1)			Prepa	red & Ana	lyzed: 09/29	9/20						
Chloride	ND	1.00	mg/L									
Fluoride	ND	0.100	mg/L									
Sulfate	ND	1.00	mg/L									
LCS (B202050-BS1)	Prepared & Analyzed: 09/29/20											
Chloride	22.9	1.00	mg/L	25.0		91.5	90-110					
Fluoride	2.49	0.100	mg/L	2.50		99.6	90-110					
Sulfate	23.5	1.00	mg/L	25.0		93.9	90-110					
LCS Dup (B202050-BSD1)			Prepa	red & Ana	lyzed: 09/29	9/20						
Chloride	23.3	1.00	mg/L	25.0		93.2	90-110	1.82	20			
Fluoride	2.46	0.100	mg/L	2.50		98.5	90-110	1.13	20			
Sulfate	23.3	1.00	mg/L	25.0		93.3	90-110	0.573	20			
Batch B202056 - General Prep - Wet Chem												
Duplicate (B202056-DUP1)	Sou	rce: 2009327-	01 Prepa	red & Ana	lyzed: 09/29	9/20						
pH	11.9		pH Units		11.9			0.168	20			
Reference (B202056-SRM1)			Prepa	red & Ana	lyzed: 09/29	9/20						
рН	9.99		pH Units	10.0		99.9	98.5-101.4					
Batch B202058 - General Prep - Wet Chem												
Duplicate (B202058-DUP1)	Sou	rce: 2009327-	01 Prepa	red & Ana	lyzed: 09/29	9/20						
Conductivity	19100	1.00 u	umho/cm @ 25.0°C		19200			0.940	20			
Reference (B202058-SRM1)	Prepared & Analyzed: 09/29/20											
Conductivity	463	1.00 u	umho/cm @ 25.0°C	447		104	90-110					

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### **Notes and Definitions**

Q1 Sample received outside of acceptable temperature range for analyses requiring cold storage.

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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reldine Zufett

Client:

Asset:

Phone# 505-860-3273 Contact Jason Hare

Address: 9A CR# 579 Serving fon NM 87401

E-Mail Addres jason.hare@bakerhughes.com

POUMONT GNG BUOWETER NM 87413

Analytical Laboratories

75 Suttle Street Durango, CO 81303 Phone:970-247-4220 FAX: 970-247-4227 CHAIN OF CUSTODY RECORD

GAL Work Order # 2004-327, 01

PO#

Project Name:

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) Howell K#4	PSI	Temp	Area		Time	Collected By: (Init.)	Sample Location	Sample Type	No. of Containers	Filtered: Y / N	Unpreserved	Cther Sou	ron and Manganese	Phosphate	Full Water API	Formational com
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