



STATE OF
COLORADO

**OIL &
GAS**

CONSERVATION COMMISSION

DEPARTMENT OF NATURAL RESOURCES

Bill Ritter, Governor

P.O. Box 2651

Durango, CO 81302

Phone: (970) 259-1619

FAX: (970) 259-9128

www.cogcc.state.co.us



June 16, 2008

Joe & Jackie Fahrion
18 CR 332
Ignacio, CO 81137

RE: Water Well Testing
Water Well Permit #243484

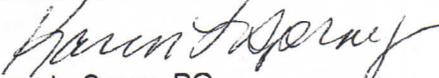
Dear Mr. and Mrs. Fahrion:

Enclosed please find the results of the May 15, 2008 groundwater sampling of your water well, located on your property at 18 County Road 332 in La Plata County, Colorado. I have also included a copy of your well construction report from 2002 for your records if you do not have a copy already. The COGCC sampled your well in association with concerns by your neighbor, Mr. Bernie Kempinski, that area oil & gas activities may be impacting area water wells.

Data indicate that your water is a calcium-bicarbonate type which is very typical for shallow groundwater in this area. Your water is classified as "hard" due to the calcium carbonate content (167 mg/L), however all of your tested parameters fall within the Colorado Department of Public Health and Environment (CDPHE) and Environmental Protection Agency's (EPA) primary and secondary drinking water criteria. Your water quality is actually very good and there is no indication that your well has suffered any impacts due to area gas well development at this time.

We would like to express our gratitude for allowing us to sample your well as a courtesy to your neighbor. If you have any questions regarding the data, please feel free to give me a call at 970-259-1619.

Sincerely,
Colorado Oil & Gas Conservation Commission Staff


Karen L. Spray, PG
SW Environmental Protection Specialist

cc: File #200129974

Four Corners Geoscience
P.O. Box 4224
Durango, CO 81302
Water Well Test Field Report

Client
Colorado Oil and Gas
Conservation Commission
Karen Spray

5/15/2008
DATE

Pending 051508-L2
IID(COGCC) FCG #

Joe & Jacqueline Fahrion
NAME

18 CR 332 Ignacio CO 81137
AddressWaterWell

18 CR 332 Ignacio CO 81137
MAILINGADD

970-883-2399
TELEPHONE_

Water Well Location Per DOWR Permit

NWSW	21	32	6	1800S 4000E
QTRQTR	SECTION	TWP North	RGE West	FTG
243484	247	60	2.5	43
WaterWellPermit#	Depth FT	Water Level FT	Yield(Permit)gpm	GallonsPumped

Garmin GPS 12 Decimal Degrees-
NAD Conus 27

-107.51084
LongDecDegrees

37.00596
LatDecDegrees

Field Chemistries	7.43	430	269	11.5
PH_FIELD		ElectricConductivity	TDS_CALC	WATERTEMP_

Methane Result (mg/L)Dissolved

<0.0005
CH4_MG_L

Detection Limit 0.0005 mg/LUSGS/BLM Method

**State of Colorado-ColiAlert test for presence
or absence of Coliform Bacteria**

E-Coli Present-notified
SanJuanBasin HlthSOCBacteria

HACH(TM)HydrogenSulfide Test

<0.1
H_2_S_MG_L

Detection Limit 0.1 mg/L

Request for water well sampling per COGCC-Karen Spray. Mat Jackie at home. Water well booklet delivered. sample from faucet on house-not softened. 4 loads laundry+cleaning today. Water clear, no odor, no tint, no bubbles, no sediment. Well in pasture.

COMMENTS

Green Analytical Laboratories, Inc.
75 Suttle Street
Durango, CO 81303

COGCC
 PO Box 2651
 Durango, CO 81302
 Attention: Karen Spray

GAL I.D.: 805-077-01
 Date Received: 05/15/08
 Date Reported: 06/03/08

QC Batches:

PROJECT NAME: 21-32-6
PROJECT NUMBER: FCG051508-L2
SAMPLE I.D.: Joe & Jackie Fahrion, Special

Sample Date: 05/15/08
 Sample Matrix: Water

Laboratory Report

RESULTS

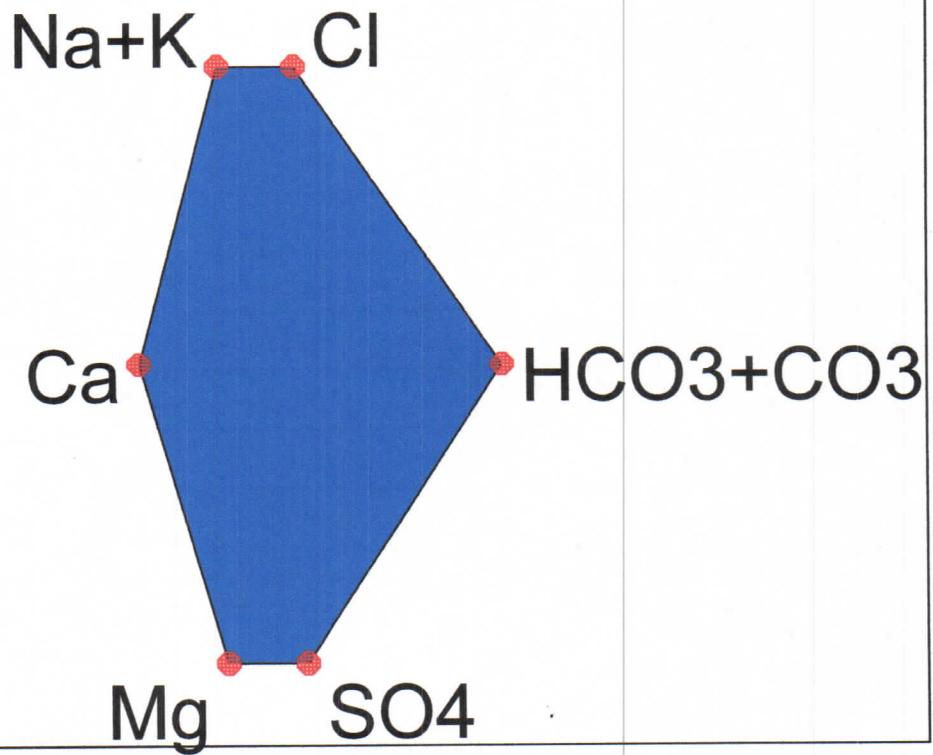
PARAMETER	METHOD	REPORT		DIL	UNITS	Maximum Contamination Level
		LIMIT	RESULT			
Alkalinity, Total	2320B	10	220	1	mg/L	
Alkalinity, Bicarbonate	2320B	10	220	1	mg/L	
Alkalinity, Carbonate	2320B	10	<10	1	mg/L	
Alkalinity, Hydroxide	2320B	10	<10	1	mg/L	
Calcium	200.7	0.5	49.0	1	mg/L	
Chloride	4500CL	10	<10	1	mg/L	
Conductivity	2510B	1.0	388	1	uS/cm	
Fluoride	4500F C	0.2	0.4	1	mg/L	4.0
Iron	200.7	0.05	<0.05	1	mg/L	
Magnesium	200.7	0.5	10.9	1	mg/L	
Manganese	200.8	0.0005	0.0006	1	mg/L	
Nitrate/Nitrite as N	353.3	0.02	2.55	1	mg/L	
pH	150.1	NA	7.42	NA	SU	
Potassium	200.7	0.5	1.5	1	mg/L	
Selenium	200.8	0.001	0.001	1	mg/L	0.05
Sodium	200.7	0.5	23.5	1	mg/L	
Sulfate	4500SO4	10	24	1	mg/L	
TDS	2540C	10	260	1	mg/L	
Hardness	Calc	10	167	1	mg/L	
CAB	Calc		0.21		%	



 John Green, Laboratory Manager

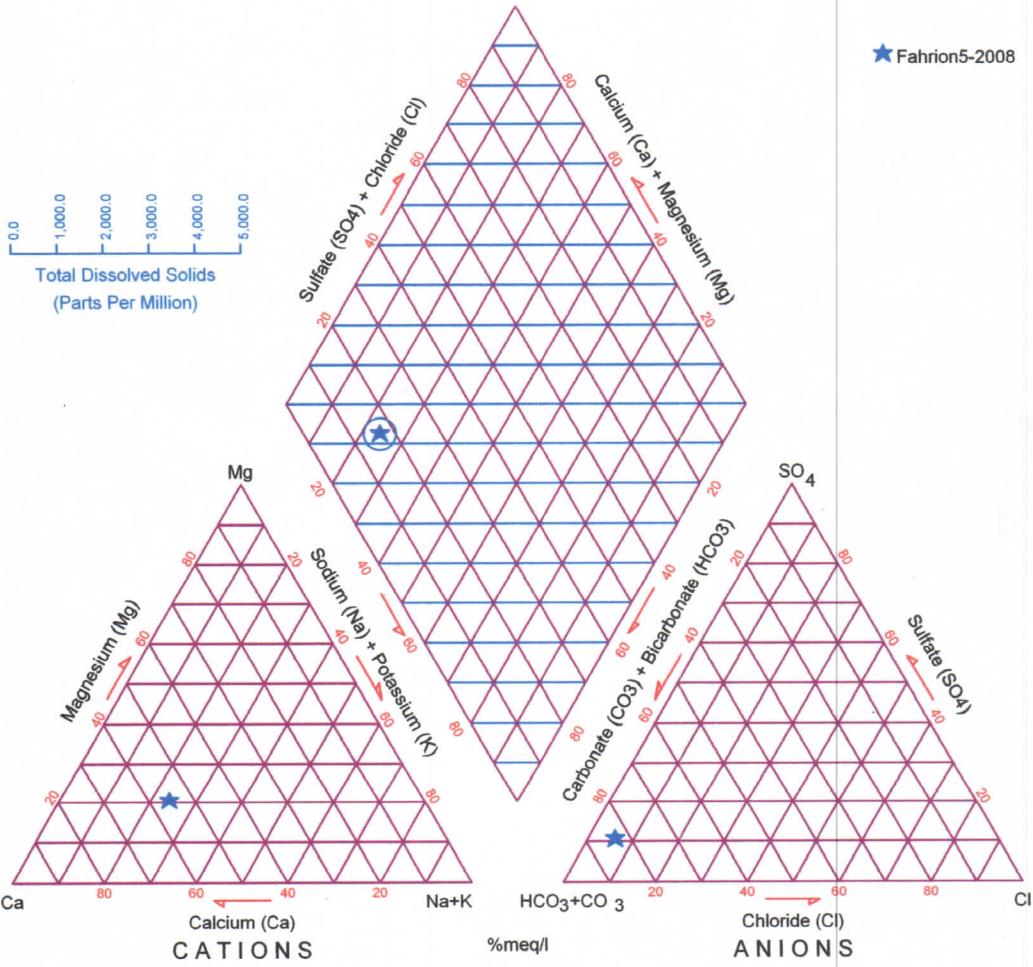
Stiff Diagram

Fahrion5-2008



Piper Diagram - Fahrion

★ Fahrion5-2008





CHAIN OF CUSTODY RECORD

Client: COGCC

NOTES:

Contact: Karen Spray

1) Ensure proper container packaging.

Address: P.O. Box 2651

2) Ship samples promptly following collection.

Phone Number: Durango, CO 259-1619

3) Designate Sample Reject Disposition.

FAX Number: 259-9128

PO# Karen Spray

Project Name: 21-32-6

Project Name: 21-32-6

Table 1. - Matrix Type
 1 = Surface Water, 2 = Ground Water
 3 = Soil/Sediment, 4 = Rinsate, 5 = Oil
 6 = Waste, 7 = Other (Specify) _____

FOR GAL USE ONLY
 GAL JOB # 805-077

Lab Name: Green Analytical Laboratories, Inc. (970) 247-4220 FAX (970) 247-4227

Address: 75 Suttle Street, Durango, CO 81303

Sample ID	Date	Time	Collected by: (Init.)	Miscellaneous			Preservative(s)				Analyses Required	Comments
				Matrix Type From Table 1	No. of Containers	Sample Filtered ? Y/N	Unpreserved (Ice Only)	HNO3	HCL	H2SO4		
1. <u>FARRION, JOE JACKIE</u>	<u>5/15/08</u>	<u>1252</u>	<u>JJ</u>	<u>23</u>	<u>N</u>	<u>X</u>					<u>phg / NO2 NO3 Se mn</u>	<u>Special</u>
2. <u>051508-L2</u>												
3.												
4.												
5.												
6.												
7.												
8.												
9.												
10.												

* Sample Reject: | | Return | | Dispose | | Store (30 Days)

Relinquished by: [Signature] Date: 5/15/08 Time: 427
 Received by: [Signature] Date: 5-15-08 Time: 427
 Relinquished by: [Signature] Date: 5-15-08 Time: 1700
 Received by: [Signature] Date: 5-15-08 Time: 1700



GAL ID No.: 805-077-01

June 3, 2008

COGCC
PO Box 2651
Durango, CO 81302
Attention: Karen Spray

Project Name: 21-32-6
Project Number:
Date Received: 05/15/08

This is to transmit the attached analytical report. The analytical data and information contained therein was generated using specified or selected methods contained in references, such as Standard Methods for the Examination of Water and Wastewater, 18th & 19th editions, and Methods for Determination of Organic Compounds in Drinking Water, EPA-600/4-79-020.

Samples were received by Green Analytical Laboratories, Inc. in good condition on 05/15/08.

If you should have any questions or comments regarding this report, please do not hesitate to call.

Sincerely,

A handwritten signature in black ink that reads 'John Green'.

John Green
Laboratory Director

Enclosure

75 SUTTLE STREET, DURANGO, COLORADO 81303
TELEPHONE (970) 247-4220 FAX (970) 247-4227