

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

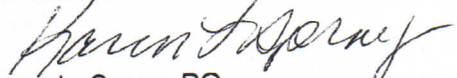
Dear Mr. and Mrs. Fahrion:

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

DEPARTMENT OF NATURAL RESOURCES: Harris Sherman, Executive Director  
COGCC COMMISSION: Richard Alward - Thomas L. Compton - Mark Cutright - Michael Dowling - Joshua B. Epel - Kimberlee Gerhardt - Trési Houpt - Jim Martin - Harris Sherman  
COGCC STAFF: David Neslin - Acting, Director - Debbie Baldwin, Environmental Manager - Patricia C. Beaver, Hearings Manager - David K. Dillon, Engineering Manager

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

Client  
Colorado Oil and Gas  
Conservation Commission  
Karen Spray

Pending 051508-L2 5/15/2008  
IID(COGCC) FCG # DATE

Joe & Jacqueline Fahrion 18 CR 332 Ignacio CO 81137  
NAME AddressWaterWell

18 CR 332 Ignacio CO 81137 970-883-2399  
MAILINGADD 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- -107.51084 37.00596  
NAD Conus 27 LongDecDegrees LatDecDegrees

Field Chemistries 7.43 430 269 11.5  
PH\_FIELD ElectricConductivity TDS\_CALC WATERTEMP\_

Methane Result (mg/L)Dissolved <0.0005 Detection Limit 0.0005 mg/LUSGS/BLM Method  
CH4\_MG\_L

State of Colorado-ColiAlert test for presence or absence of Coliform Bacteria E-Coli Present-notified  
SanJuanBasin HlthSOCBacteria

HACH(TM)HydrogenSulfide Test <0.1 Detection Limit 0.1 mg/L  
H\_2\_S\_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

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

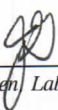
GAL I.D.: 805-077-01  
Date Received: 05/15/08  
Date Reported: 06/03/08  
QC Batches:

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	4.0
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	
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	0.05
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	
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



FORM NO.  
GWS-31  
11/90WELL CONSTRUCTION AND TEST REPORT  
STATE OF COLORADO, OFFICE OF THE STATE ENGINEER

For Office Use only

1. WELL PERMIT NUMBER 2413484

2. OWNER NAME(S) JOE FAHRION  
Mailing Address 18 CR 332  
City, St. Zip IGNACIO CO 81137  
Phone (970) 8832399

RECEIVED DIV. 7 RECEIVED

10-4-02 NOV. 06 2002

WATER RESOURCES  
STATE ENGINEER  
COLORADO

3. WELL LOCATION AS DRILLED: NW 1/4 SW 1/4, Sec. 21 Twp. 32 N, Range 6 W NMPM  
DISTANCES FROM SEC. LINES:  
1800 ft. from SOUTH Sec. line, and 4000 ft. from EAST Sec. line. OR  
(north or south) (east or west)  
SUBDIVISION: \_\_\_\_\_ LOT \_\_\_\_\_ BLOCK \_\_\_\_\_ FILING(UNIT) \_\_\_\_\_  
STREET ADDRESS AT WELL LOCATION: SAME

4. GROUND SURFACE ELEVATION \_\_\_\_\_ ft. DRILLING METHOD CABLE TOOL  
DATE COMPLETED 10-17-02 TOTAL DEPTH 247 ft. DEPTH COMPLETED 247 ft.

## 5. GEOLOGIC LOG:

Depth Description of Material (Type, Size, Color, Water Location)

0-12' DIRT  
12'-95' GRAY-BROWN MUD  
95-247 GRAY SHALE

6. HOLE DIAM. (in.) From (ft) To (ft)  
10" 0 247

## 7. PLAIN CASING

OD (in)	Kind	Wall Size	From (ft)	To (ft)
<u>10</u>	<u>STEEL</u>	<u>.375</u>	<u>12</u>	<u>98'</u>
<u>6</u>	<u>PVC</u>	<u>.312</u>	<u>7'</u>	<u>247'</u>

PERF. CASING: Screen Slot Size: .125 X 4"  
8 SLOTS PER 20'

## 8. FILTER PACK:

Material 3/8 CHIPS  
Size \_\_\_\_\_  
Interval 230'

## 9. PACKER PLACEMENT:

Type \_\_\_\_\_  
Depth \_\_\_\_\_

## 10. GROUTING RECORD:

Material	Amount	Density	Interval	Placement
<u>NEAT</u>	_____	<u>PURE</u>	<u>10'</u>	<u>POURED</u>

REMARKS: 100' 10" STEEL WELL  
CASING DRIVEN INTO  
SHALE

11. DISINFECTION: Type CHLORINE Amt. Used 1 GAL

12. WELL TEST DATA: ☐ Check box if Test Data is submitted on Supplemental Form.

TESTING METHOD TIMED RECHARGEStatic Level 60' ft. Date/Time measured 10-17-02 Production Rate 2.5 gpm.Pumping level 115' ft. Date/Time measured 10-17-02 Test length (hrs.) 5

Remarks \_\_\_\_\_

13. I have read the statements made herein and know the contents thereof, and that they are true to my knowledge. [Pursuant to Section 24-4-104 (13)(a) C.R.S., the making of false statements herein constitutes perjury in the second degree and is punishable as a class 1 misdemeanor.]

CONTRACTOR GARY GERBERPhone (970) 8849000 Lic. No. 1392

Mailing Address \_\_\_\_\_

Name/Title (Please type or print)

OWNER - OP

Signature

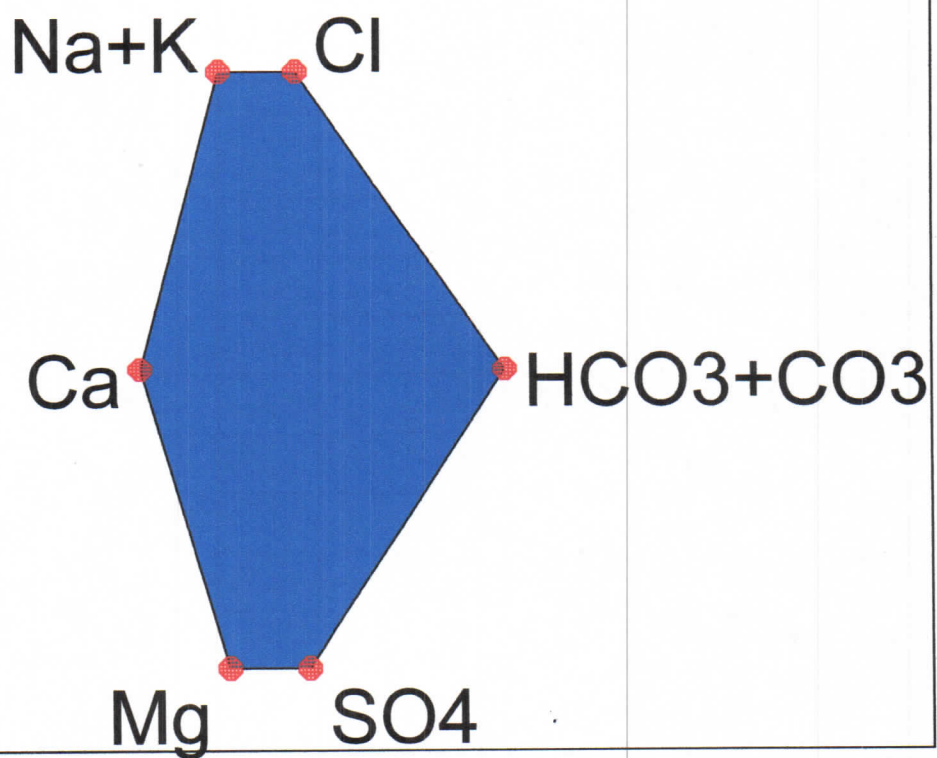
Gary Gerber

Date

10-17-02

# Stiff Diagram

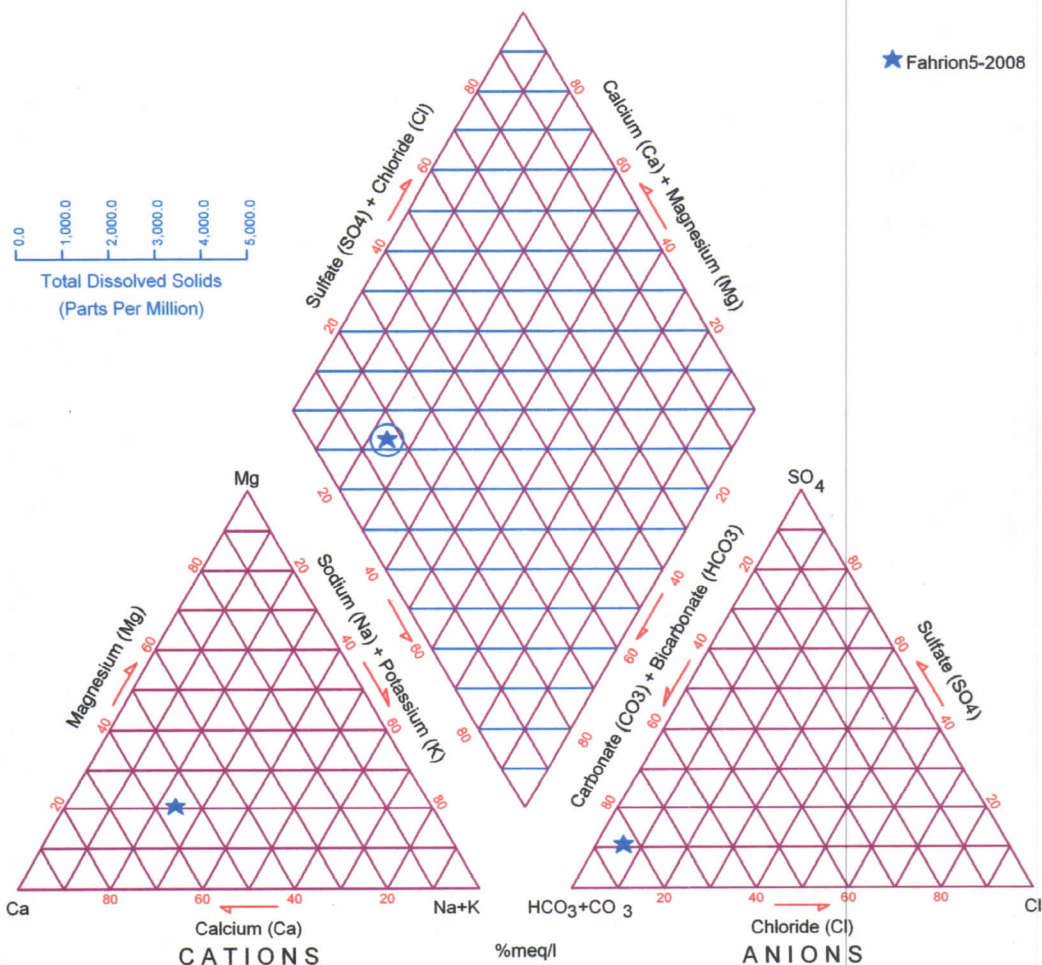
Fahrion5-2008





Piper Diagram - Fahrion

★ Fahrion5-2008





CHAIN OF CUSTODY RECORD

Client: COGCC  
Contact: Karen Spray  
Address: P.O. Box 2651  
Durango, CO  
Phone Number: 254-1619  
FAX Number: 254-9128

NOTES:  
1) Ensure proper container packaging.  
2) Ship samples promptly following collection.  
3) Designate Sample Reject Disposition.  
PO# Karen Spray  
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

Samples Signature: [Signature]

Lab Name: Green Analytical Laboratories, Inc.		(970) 247-4220		FAX (970) 247-4227		Analyses Required							
Address: 75 Suttle Street, Durango, CO 81303													
Sample ID	Collection	Date	Time	Collected by: (Init.)	Matrix Type From Table 1	No. of Containers	Sample Filtered ? Y/N	Unpreserved (Ice Only)	Preservative(s)				Comments
													Special
1. FAH RION, Joe JACKIE 5/15/08 1252 [Signature]													
2. 051508-22													
3.													
4.													
5.													
6.													
7.													
8.													
9.													
10.													
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: 700		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

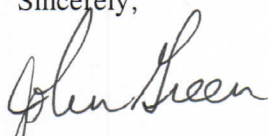
Project Name: 21-32-6  
Project Number:  
Date Received: 05/15/08

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,

  
John Green  
Laboratory Director

Enclosure

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