

**TABLE 1  
ANALYTICAL SUMMARY  
Kempinski Water Well**

*10/17/13  
pre by  
CmocoPhillips*

Parameter	Water Sample							CDPHE Standards		
	Sample Date									
	10/17/13	12/2/10	10/5/10	5/15/08	4/1/08	4/1/08(2)	Unit	Domestic	Agriculture	Units
Alkalinity, Total	180	214	258	118	194	162	mg/l	NS	NS	
Alkalinity, Bicarbonate	180	210	254	114	190	162	mg/l	NS	NS	
Alkalinity, Carbonate	<10	<10	<10	<10	<10	<10	mg/l	NS	NS	
Alkalinity, Hydroxide	<10	<10	<10	<10	<10	<10	mg/l	NS	NS	
Calcium	221	68.7	16	672	127	287	mg/l	NS	NS	
Chloride	<b>1010</b>	<b>340</b>	17	<b>3020</b>	<b>590</b>	126	mg/l	<b>250</b>	NS	mg/l
Conductivity	3700	2100	910	9440	2410	4400	uS/cm	NS	NS	
Fluoride	<b>6.23</b>	<b>6.6</b>	<b>4.3</b>	<b>5</b>	<b>6.5</b>	<b>5.8</b>	mg/l	<b>4.0</b>	2.0	mg/l
Iron	0.164	<b>0.62</b>	<0.05	0.11	<0.05	<0.05	mg/l	<b>0.3</b>	5	mg/l
Magnesium	5.08	2.5	1.9	15.6	3.0	6.3	mg/l	NS	NS	
Manganese	0.0426	<b>0.0994</b>	0.0044	<b>0.0939</b>	0.0409	NT	mg/l	<b>0.05</b>	0.2	mg/l
Nitrate/Nitrite as N	0.244	0.26	0.4	NT	0.12	NT	mg/l	10.0	100	mg/l
pH	7.71	7.86	8.09	<b>6.33</b>	8.04	7.63	S.U.	<b>6.5-8.5</b>	6.5-8.5	S.U.
Potassium	1.40	1.3	1.3	4.1	1.3	2.0	mg/l	NS	NS	
Selenium	0.0136	0.013	0.026	0.016	0.009	NT	mg/l	0.05	0.02	mg/l
Sodium	495*	296*	193*	1130*	402*	626*	mg/l	NS	NS	
Sulfate	176	205	190	243	174	178	mg/l	<b>250</b>	NS	
TDS	<b>2160</b>	<b>1313</b>	<b>569</b>	<b>5820</b>	<b>1300</b>	<b>2630</b>	mg/l	<b>500</b>	<b>*1500</b>	mg/l
Hardness	572	182	48	1740	329	743	mg/l	NS	NS	
<b>Other Parameters</b>										
Methane	0.04	ND	ND	NT	0.01	NT	mg/l	NS	NS	
Hydrogen sulfide	ND	ND	ND	NT	ND	NT	mg/l	NS	NS	
Total Coliform	<b>PRES</b>	ABS	<b>PRES</b>	NT	ABS	NT		Zero	NS	
E. Coli	ABS	ABS	ABS	NT	ABS	NT		Zero	NS	

CDPHE Colorado Department of Public Health and the Environment  
**Domestic** Water Quality Control Commission 5 CCR 1002-41, Regulation No. 41 - The Basic Standards for Groundwater.  
**Agriculture** \* Standards for agriculture compiled from CDPHE and other of sources.  
**mg/l** milligrams per liter (ppm or parts per million).  
**NS** No Standard.  
**NT** Not Tested  
 Human health standard.  
 Secondary standard.  
 \* Above recommended concentration for persons on a sodium-restricted diet

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

DATE 10/17/2013 IID(COGCC) 2043  
FCG # 101713-L1 Facility ID COGCC 706941

NAME Bernie & Rita Kempinski  
AddressWaterWell 520 Miller Ranch Road Ignacio, CO 81137  
Mailing Address 520 Miller Ranch Road Ignacio, CO 81137

**DWR Permit Data**

<u>430834C</u>	<u>209556</u>	<u>500</u>	<u>85</u>	<u>2</u>
Receipt # DWR	WaterWellPermit#	WellDepth(Ft)	StaticWater Level(Ft)	Yield
<u>NENW</u>	<u>21</u>	<u>32</u>	<u>6</u>	<u>1660S2940E</u>
QTRQTR	SECTION	TWP(North)	RGE(West)	FTG
	<u>-107.50026</u>	<u>37.00449</u>		
	Longitude(DecDegrees)	Latitude(DecDegrees)		

<u>7.78</u>	<u>3800</u>	<u>2375</u>	<u>15</u>
PH_FIELD	ElectricConductivity	TDS_CALC	WATERTEMP_

**Field Chemistries**

*Water samples collected and delivered to approved analytical lab. Results attached. Please refer to Water Well booklet for interpretation of lab chemistries.*

**Methane Result (mg/L)(Dissolved)** 0.04 mg/L Detection Limit 0.0005 mg/L

**HydrogenSulfide (mg/L)**  
**HACH Test Kit Field 25378-00** <0.1 mg/L Detection Limit 0.1 mg/L

**San Juan Basin Health-State of Colorado**  
**Health Dept Coli-Alert Test** Present  
ColiformBacteria

Met Bernie. Sample from frostfree next to outbuildings. Water clear, no odor, no tint, no bubbles, trace black shale in sample bucket. Karen Spray present for test. Pumped approximately 400 gallons.

**COMMENTS**

**Operator Conoco Phillips** GasWellName Allison Unit #149H

*Four Corners Geoscience conducted onsite field chemistries, observations of physical characteristics of well water while pumping well to receive a fresh aquifer sample. Water samples were collected and delivered to an EPA accredited analytical laboratory.*

*Methane samples were delivered to Four Corners Geoscience for analysis for methane in accordance with BLM/USGS Method established in 1993 for LaPlata County Colorado.*

*Onsite water well evaluation and sample collection and analysis are conducted in compliance with the Colorado Oil and Gas Conservation Commission Order Numbers 112-156 and 112-157 established in July 2000 and all subsequent Orders for 80 Acre infill Drilling.*

*Four Corners Geoscience is not liable for the results or interpretation of these analyses. Qualified specialists should be consulted for interpretation or treatment of water.*

**San Juan Basin Health Department  
Water Bacteriology Result**

**Coli-Alert Test for Presence or Absence of  
Coliform Bacteria in Water Wells and other Water Sources**

Your coli-form bacteria sample was collected at the time of your water well test by Four Corners Geoscience, Inc. and delivered to San Juan Basin Health Department laboratory for analysis for coliform bacteria.

A copy of your result is attached below.

Please call San Juan Basin Health at 970-247-5702 for more information regarding the results and disinfection of water wells. You may consider contacting a water well specialist for treatment of your water well.

San Juan Basin Health Department/Laboratory  
281 Sawyer Drive  
P.O. Box 140  
Durango, CO 81302

**WATER  
BACTERIOLOGY**

*pd*  
**TO BE BILLED**  
Fee Stamp

FCC# 101713-L1

**SAMPLE INFORMATION:**  COMMUNITY  NON-COMMUNITY  PRIVATE  
PWS ID  ROUTINE  RAW  REPEAT FOR THE MONTH OF  
COO  SPECIAL PURPOSE  FINISHED

DATE TIME BY  
COLLECTED 10/17/13 12:00  PM *ey*  
RECEIVED / /  AM  PM

SAMPLE SITE *Bernie Kempinski* CHLORINE RESIDUAL \_\_\_\_\_ MG/L  
ADDRESS *520 Miller Rd* CITY \_\_\_\_\_ COUNTY *81137*

**RESULTS: SEE REVERSE FOR EXPLANATION**

TOTAL COLIFORM  PRESENT  ABSENT per 100m  
E. COLI  PRESENT  ABSENT per 100m

**ORDERED BY:** (SAMPLE MAY NOT BE TESTED IF ALL INFORMATION IS NOT PROVIDED)

RESULTS SENT TO: *FCC Geoscience* PHONE \_\_\_\_\_

LAB PROCEDURE  
STD. MTH  
20th ED  
9223C  
Ms. Lynn Fechter  
P.O. Box 4224  
Durango, CO 81302-4224

OCT 17 '13 14:06 3067

ColiAlert-18  ColiAlert-24  Colisure-24 48

QUANTI-TRAY  STD BACT.  OTHER \_\_\_\_\_

ANALYST *CS*