

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	1010	340	17	3020	590	126	mg/l	250	NS	mg/l
Conductivity	3700	2100	910	9440	2410	4400	uS/cm	NS	NS	
Fluoride	6.23	6.6	4.3	5	6.5	5.8	mg/l	4.0	2.0	mg/l
Iron	0.164	0.62	<0.05	0.11	<0.05	<0.05	mg/l	0.3	5	mg/l
Magnesium	5.08	2.5	1.9	15.6	3.0	6.3	mg/l	NS	NS	
Manganese	0.0426	0.0994	0.0044	0.0939	0.0409	NT	mg/l	0.05	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	6.33	8.04	7.63	S.U.	6.5-8.5	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	250	NS	
TDS	2160	1313	569	5820	1300	2630	mg/l	500	*1500	mg/l
Hardness	572	182	48	1740	329	743	mg/l	NS	NS	
Other Parameters										
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	PRES	ABS	PRES	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 complied 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

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

Field Chemistries

7.78	3800	2375	15
PH_FIELD	ElectricConductivity	TDS_CALC	WATERTEMP_

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.

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

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.

Fee Stamp

~~TO BE BILLED~~
Fee Stamp

FCG#101713-L1

ANALYST CL