

**Four Corners Geoscience
Water Well Test Report
Groundwater Monitoring Program
per COGCC Infill Orders**

IID(COGCC) 3699 **FCG #** 121613-L1
Facility ID COGCC 707134 **DATE** 12/16/2013

Jim & Ann Arens Complaint
NAME _____

1911 CR 502 Bayfield, CO 81122 P O Box 1999 Bayfield, CO 81122 970-884-4991
AddressWaterWell **Mailing Address** **Telephone#**

DWR PERMIT Data

<u>0110117C</u>	<u>115259</u>	<u>150</u>	<u>70</u>	<u>10</u>
Receipt # DWR	WaterWellPermit#	WellDepth(Ft)	StaticWater Level(Ft)	Yield(Permit)
<u>NESE(NUL)</u>	<u>34</u>	<u>35</u>	<u>7</u>	<u>1400S0592E</u>
QTRQTR	SECTION	TWP(North)	RGE(West)	FTG

<u>Garmin GPS NAD 83</u>	<u>-107.61663</u>	<u>37.25481</u>
	Longitude(DecDegrees)	Latitude(DecDegrees)

Field Chemistries	<u>7.03</u>	<u>480</u>	<u>300</u>	<u>11</u>
	PH_FIELD	ElecConductivity(us)	TDS_CALC	WATERTEMP_

Water samples collected & delivered to approved analytical lab .Results attached.Please refer to Water Well booklet or water treatment specialist for interpretation of lab chemistries

Methane Result in mg/L	<u><0.0005</u> mg/L	<u>DetectionLimit 0.0005 mg/L</u>
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HydrogenSulfide(HACH Test Kit Field)	<u><0.1</u> mg/L	<u>Detection Limit 0.1 mg/L</u>
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San Juan Basin Health-State of Colorado Health Dept Coliform Test Only	<u>Absent</u>
	ColiformBacteria

Ann states "Well water tastes different" and BP work on gas wells since summer-currently pipeline next to property line"Sample collection at Kitchen sink to avoid ice at frostfrees.Water clear,no odor,no tint,no bubbles,no sediment.Run Minimum per owner.

COMMENTS

Monitor well for:

<u>NA</u>	<u>SW Sec 35 T35N R7W(NUL)</u>
GasWell 1	LocationGasWell

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 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,sample collection and analysis are conducted in compliance with the Colorado Oil and Gas Conservation Commission Order Numbers 112-156 and/or 112-157 established in 2000 and all subsequent infill orders for 80 acre 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.

**Four Corners Geoscience
BART (Bacterial Test Results)**

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Methane Result(mg/L)

<0.0005

CH4_MG_L

SRB

Sulfate Reducing Bacteria ABSENT-solution very very slight cloudy-probable Anaerobic bacterial growth.

**BART Hach Company
BART TYPE: SRB-BART
Batch #0800-W,X Lot 0800-W,X
Expiration Date June 2016
Cert # 120803A**

IRB

Iron Related Bacteria- PRESENT-moderately aggressively- anaerobic bacteria.

**BART Hach Company
BART TYPE:IRB-BART
Batch #: 0498-V Lot #:0498-V
Expiration Date June 2016
Cert #120731A**