

## Arthur Koepsell - DNR

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**From:** Lynn Fechter  
**Sent:** Thursday, January 02, 2014 3:52 PM  
**To:** arthur.koepsell@state.co.us  
**Cc:** 'Lynn Fechter'  
**Subject:** Jim Arens FCGEO Final Field Report and SanJuanBasin Health,BARTs  
**Attachments:** Arens Jim FCG Final Report.xls; ArensJimSJBH.pdf; FCG-BART Report ARENS12-16-13.pdf

HELLO Arthur

Here are final reports for Aren s water well test

Incl-

Scanned copy of Coli Lert test

FCGEO field data report in excel format

BART Report for IRB AND SRB

GAL Report has been sent separately by Debbie Zufelt

Which should be sent to well owner, also.

These are the report forms to mail to the water well owner- along with your interpretation and report to include the chemistries.

I will send an invoice shortly

Thank you,

Lynn Fechter

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**From:** Robbin Shackelton [<mailto:robbin@fcgeo.com>]

**Sent:** Thursday, January 02, 2014 11:10 AM

**To:** 'Lynn Fechter'

**Subject:** Jim Arens Final Report and SJBH

Attached...

*Robbin Shackelton*

Four Corners Geoscience, Inc.

P O Box 4224

Durango, CO 81302

970-247-5046

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

December 16, 2013  
Date of Sampling  
121613-L1  
FCG#

Landowner Information

Arens Jim and Ann  
Last Name First Name (Primary)

Last Name First Name

P O Box 1999

Street/P.O. Box

Bayfield CO 81122  
City State Zip

000-000-0000

Phone Number

Methane Results: <0.0005 Detection Limit 0.0005 mg/L

Hydrogen Sulfide: <0.1 Detection Limit 0.1 mg/L  
(HACH test Kit Field)

Coliform Bacteria: Absent San Juan Basin Health State of Co Health Dept.

Field Chemistries

7.03 PH Field 480 ECond.(us) 300 TDS CALC 11 Wtr. Temp. C

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

Water Well Location and Permit Data

707134 3699  
Facility ID IID (COGCC) #  
1911 CR 502  
Street/ P.O. Box  
Bayfield CO 81122  
City State Zip

115259  
Water Well Permit #  
150  
Well Depth (ft)  
70  
Static Water Level (ft)  
10  
Yield Permit (gpm)

-107.61663  
Longitude (DecDegrees NAD 83)  
37.25481  
Latitude (DecDegrees NAD 83)

NESE(NUL) 34 35 7 1400S0592E  
QRQR Section TWP(North) RGE(West) FTG

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

NA  
Water Well Name  
Complaint  
Test Name  
Donna Davis  
Previous Owner  
NA  
Concern/Special Request

API

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.

# 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

*paid for*  
Fee Stamp  
**TO BE BILLED**  
*fg # 121613-44*  
DATE TIME BY  
COLLECTED 12/16/13  AM  PM 11:05  
RECEIVED              AM  PM

**SAMPLE INFORMATION:**  COMMUNITY  NON-COMMUNITY  PRIVATE

PWS ID  ROUTINE  RAW  REPEAT FOR THE MONTH OF  
COO  SPECIAL PURPOSE  FINISHED

SAMPLE SITE ARENS CHLORINE RESIDUAL \_\_\_\_\_ MG/L

ADDRESS 1911 CR 501 CITY \_\_\_\_\_ COUNTY \_\_\_\_\_

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

RESULTS SENT TO: FC GEO SCIENCE

LAB PROCEDURE \_\_\_\_\_

STD. MTH \_\_\_\_\_ NAME Ms. Lynn Fechter

20th ED \_\_\_\_\_ ADDRESS PO Box 4224

9223C \_\_\_\_\_ CITY / STATE / ZIP Durango, CO 81302

QUANTI-TRAY  STD BACT.  OTHER

**RESULTS:** SEE REVERSE FOR EXPLANATION

TOTAL COLIFORM  PRESENT  ABSENT per 100m

E. COLI  PRESENT  ABSENT per 100m

KS smp 1  
DEC 16 '13 10:44:8607

Colliert-18  Colliert-24  Collisure-24 48

ANALYST BS

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

3699  
IID(COGCC)

NAME  
**Jim & Ann Arens Complaint**

FCG #  
121613-L1

DATE  
12/16/2013

**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**