

Arthur Koepsell - DNR

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

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)
QRQR

34
Section

35
TWP(North)

7
RGE(West)

1400S0592E
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

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:

LAB PROCEDURE

FC GEO SCIENCE

STD. MTH

NAME

Ms. Lynn Fechter

20th ED

ADDRESS

PO Box 4224

9223C

Durango, CO 81302

CITY / STATE / ZIP

☐ QUANTI-TRAY

☒ STD BACT.

☐ OTHER

Fee Stamp

TO BE BILLED

kg # 121613-44

DATE 12/16/13 TIME 4M BY 11/15
COLLECTED 12/16/13 ☒ AM ☐ PM
RECEIVED / / ☐ AM ☐ PM

RESULTS: SEE REVERSE FOR EXPLANATION

TOTAL COLIFORM ☐ PRESENT ☒ ABSENT per 100m

E. COLI ☐ PRESENT ☒ ABSENT per 100m

KS smp1

☒ Colliert-18 ☐ Colliert-24 ☐ Colisure-24 48

ANALYST CS

**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**