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S& G Interests
Domestic Water Well Test
COGCC Infill Order 112-156;112-157
FCGeo Water Well Test Report

FCG # 031504-4

BLM NO

DATE 3/15/2004

IID(COGCC) New

1182

Randy & Vivian Neil(Main House)

NAME

4050 CR 39 Ignacio,CO 81137

AddressWaterWell

P.O. Box 1207 Ignacio,CO 81137

Mailing Address

970-563-3670

Telephone#

Water Well Location and Permit Data

WaterWellPermit#	222423	WellDepth(Ft)	340	StaticWater Level(Ft)	175	Yield(Permit)	1
SENW	6	32	7	1380N2400W	LaPlataCounty,CO		
QTRQTR	SECTION	TWP(North)	RGE(West)	FTG			

Garmin GPS NADS CONUS 27

Longitude(DecDegrees)	-107.65011	Latitude(DecDegrees)	37.04856
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Field Chemistries

pH	9.08	ElecCond(us)	687	TDS(Calculated)	429	H2OTemp(DegreesCelsius)	11
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Water samples delivered to Green Analytical Lab in Durango,Colorado for chemistries.See attached results.

Methane Result (mg/L)(Dissolved)

2.26 mg/L

DetectionLimit 0.0005 mg/L-USGS/BLM METHOD

HydrogenSulfide (mg/L)

>5.0 mg/L

Detection Limit 0.1 mg/L-HACH Test 25378-00

San Juan Basin Health- Coliform Test Only

ABSENT
ColiformBacteria

Presence/Absence-State of Colorado
See Attachment

Randy pump well Sunday connecting hose to inlet from well before cistern.Well recharged.Pumped direct off well for fresh aquifer sampling.Water turbid,very strong H2S odor.Fine quartz sand grains&black shale in sample bucket.Isotope collected&shipped

COMMENTS

Monitor well for Infill

Arco 32-7-6#3
GasWellName

NENW Sec 6 T32N R7W
LocationGasWell

Also monitor well below 2 wells
SchofieldAuto 41-6-4 and
Schofield Auto 31X5#4

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 Green Analytical Lab located in Durango,Colorado.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 La Plata County Government and the Colorado Oil and Gas Conservation Commission Order Number 112-156 and 112-157 established in July 2000. 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.

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ANALYSIS REPORT

Lab #: 65468 Job #: 4909
Sample Name/Number: Randy Neil Main House Water Well
Company: S & G Interests
Date Sampled: 3/15/2004
Container: Glass Bottle
Field/Site Name: Randy Neil Main House Well
Location: NW Sec 6T32NR7W
Formation/Depth: La Plata County
Sampling Point: FCG# 031504-4
Date Received: 3/19/2004 Date Reported: 4/15/2004

Component	Chemical mol. %	Delta 13C per mil	Delta D per mil	Delta 15N per mil
Carbon Monoxide -----	nd			
Hydrogen Sulfide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	1.44			
Oxygen -----	0.0378			
Nitrogen -----	84.93			
Carbon Dioxide -----	0.26			
Methane -----	13.25	-50.77	-104.5	
Ethane -----	0.0778			
Ethylene -----	nd			
Propane -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	nd			

Total BTU/cu.ft. dry @ 60deg F & 14.7psia, calculated: 136
Specific gravity, calculated: 0.920

nd = not detected. na = not analyzed. Isotopic composition of carbon is relative to VPDB. Isotopic composition of hydrogen is relative to VSMOW. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol. % is approximately equal to vol. %.
Chemical analysis based on standards accurate to within 2%



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ANALYSIS REPORT

Water Analysis Report

Lab Number: 65469 Job Number: 4910
Submitter Sample Name: Randy Neil Main House Water Well
Submitter Sample ID:
Submitter Job #:
Company: S & G Interests
Field or Site: Randy Neil Main House Well
Location: NW Sec 6T32NR7W
Depth/Formation: La Plata County
Container Type: Vial - glass
Sample Collected: 3/15/2004
Results Reported: 4/15/2004

Delta D of water ----- -96.2 per mil relative to VSMOW
Delta O-18 of water ----- -12.77 per mil relative to VSMOW
Tritium content of water ----- na
Delta C-13 of DIC ----- -18.66 per mil relative to VPDB
Carbon-14 content of DIC ----- na

Remarks:

Green Analytical Laboratories, Inc.
 75 Suttle Street
 Durango, CO 81303

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Sagle & Schwab
 PO Box 2677
 Durango, CO 81302

GAL I.D.: 403-060-01
Date Received: 03/16/04
Date Reported: 03/26/04

Attention: Bob Sagle / Marcia Stewart

QC Batches:

Monitor Well for Schofield Auto 31X5-4
 Schofield Auto 41-6-4, ARCO 32-7-6 #3

PROJECT NAME:

PROJECT NUMBER:

SAMPLE I.D.:

031504-4
 Randy Neil Main House (Pre)

Sample Date: 03/15/04
Sample Matrix: Water

Laboratory Report

RESULTS

PARAMETER	METHOD	REPORT		DIL	UNITS	Maximum Contamination Level
		LIMIT	RESULT			
Alkalinity, Total	2320B	10	310	1	mg/L	
Alkalinity, Bicarbonate	2320B	10	286	1	mg/L	
Alkalinity, Carbonate	2320B	10	24	1	mg/L	
Alkalinity, Hydroxide	2320B	10	<10	1	mg/L	
Calcium	200.7	0.5	2.9	1	mg/L	
Chloride	4500CL	10	25	1	mg/L	
Conductivity	2510B	1.0	685	1	uS/cm	
Fluoride	4500F C	0.2	4.6	1	mg/L	4.0
Iron	200.7	0.05	0.24	1	mg/L	
Magnesium	200.7	0.5	<0.5	1	mg/L	
Nitrate/Nitrite as N	353.3	0.02	<0.02	1	mg/L	
pH	150.1	NA	9.09	NA	SU	
Potassium	200.7	0.5	<0.5	1	mg/L	
Selenium	200.8	0.001	0.002	1	mg/L	0.05
Sodium	200.7	0.5	164	1	mg/L	
Sulfate	4500SO4	10	28	1	mg/L	
TDS	2540C	10	305	1	mg/L	
Hardness	Calc	10	<10	1	mg/L	
CAB	Calc		1.88		%	


 John Green, Laboratory Manager

Sagle & Schwab Energy Resources

From: "Pelphrey, Steven R." <steve@isotechlabs.com>
To: <gas_men@frontier.net>
Cc: <fcgeo@frontier.net>
Sent: Friday, April 16, 2004 2:52 PM
Attach: JOB4909.XLS
Subject: Randy Neil results

Hi all,

We are finished with the analysis of the sample from this well, and attached is an excel sheet with the data. There was mention of strong H2S odor, but we did not detect any H2S during our analysis. However, our detection limit is quite high for H2S at around 150 ppm, so the nose is a much better detector (at least qualitatively). Hard copies will be mailed, but if you have any questions please let me know.

Thanks,
Steve

Steve Pelphrey
Lab Manager
Isotech Laboratories, Inc
1308 Parkland Court
Champaign, IL 61821
217-398-3490

4/16/04

PRE

SAGLE & SCHWAB ENERGY RESOURCES

RECEIVED

Bob Sagle
President/Engineering

Tripp Schwab
Vice-President/Operations

DEC 16 04

COGCC

December 13, 2004

Mr. & Mrs. Randy Neil
PO Box 1207
Ignacio, CO 81137

RE: Water Well Testing Results

Dear Mr. & Mrs. Neil:

Enclosed for your information is the analysis of water samples taken from your two water wells prior to the drilling of gas wells on your property. Each analysis indicates there is some gas present in your water wells.

Also enclosed is an Isotech Analysis of the gas present in the water wells. A note from Isotech Laboratories states, "Although there was mention of strong H₂S odor, the analysis does not show any. However, the detection limit is quite high for H₂S at around 150 ppm; so the nose is a much better detector (at least qualitatively)."

Debbie Baldwin of the Colorado Oil & Gas Conservation Commission requested that I wait before sending these results to you until she had a chance to study the data. She intends to do some follow-up work and will be contacting you in the near future.

If you have any questions, please give us a call.

Sincerely,

SAGLE & SCHWAB ENERGY RESOURCES
AGENT FOR SG INTERESTS I, LTD

Marcia Stewart

Marcia Stewart
Engineering Assistant

cc: Debbie Baldwin
COGCC