



**Lori Notor**  
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**By Email: jimo.hughes@state.co.us**

October 9, 2015  
Mr. Jim Hughes  
Environmental Protection Specialist  
Colorado Oil and Gas Conservation Commission  
1120 Lincoln Street, Suite 801  
Denver, CO 80203

**RE: Rule 608.b(4): Six Year Post Completion Test Results**  
Water Well 706573, COGCC #1638

Dear Mr. Hughes:

ConocoPhillips Company is submitting six year "post-completion" test results from Water Well 706573 in accordance with Colorado Oil and Gas Conservation Commission's (COGCC) Rule 608.b(4). These results are attached to this letter as Exhibit A.

In addition, ConocoPhillips is attaching the following exhibits:

- Exhibit B: 2015 Gas Analysis from Water Well 706573
- Exhibit C: 2008 Isotope Analysis from Water Well 706573
- Exhibit D: 2009 Isotope Analysis from Water Well 706573
- Exhibit E: 2015 Gas Analysis from Animas 34-10 36-2A, API # 05-067-09594

Results from required testing, as well as a comparison of data from Water Well 706573 and Animas 34-10 36-2A, API # 05-067-09594, demonstrate there is no cross-flow between Water Well 706573 and Animas 34-10 36-2A, API # 05-067-09594. Therefore, ConocoPhillips Company considers our obligation under Rule 608 met and plans to take no further action related to this matter.

Please contact me with any questions of if you need additional information.

Best Regards,

Lori Notor  
Regulatory Supervisor

cc: Sharon Zubrod, Health, Safety, Environmental and Regulatory Manager, ConocoPhillips Company

# Exhibit A

# ANALYSIS REPORT

Lab #: 530920 Job #: 29991 IS-78774 Co. Job#:

Sample Name: Kevin &amp; Anne Brennan / FCGEO ID#090815-L1 Co. Lab#:

Company: ConocoPhillips

API/Well:

Container: IsoFlask

Field/Site Name: Animas 34-10; #36-2A

Location: Sec 36 T34N R10W La Plata County Colorado

Formation/Depth:

Sampling Point: 706573

Date Sampled: 9/08/2015 11:08 Date Received: 9/10/2015 Date Reported: 10/07/2015

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{18}\text{O}$ ‰	Dissolved gas cc/L	Dissolved gas ppm
Carbon Monoxide -----	nd					
Helium -----	na					
Hydrogen -----	nd					
Argon -----	0.500					
Oxygen -----	0.059					
Nitrogen -----	26.10					
Carbon Dioxide -----	0.28	-25.4				
Methane -----	71.68	-42.49	-182.4		35	23
Ethane -----	1.12				0.59	0.74
Ethylene -----	nd					
Propane -----	0.208				0.10	0.19
Propylene -----	nd					
Iso-butane -----	0.0261					
N-butane -----	0.0184					
Iso-pentane -----	0.0040					
N-pentane -----	0.0009					
Hexanes + -----	nd					

Total BTU/cu.ft. dry @ 60deg F &amp; 14.73psia, calculated: 753

Specific gravity, calculated: 0.677

## Remarks:

Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.68

\*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen. CO2 carbon isotope data obtained online via GC-C-IRMS

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol. % is approximately equal to vol. %.

## Exhibit B

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

September 8, 2015

Date of Sampling

090815-R2

FCG#

Landowner Information

Brennan Kevin & Anne  
Last Name First Name (Primary)

Methane Results: 16.05

Detection Limit 0.0005 mg/L

Last Name First Name

520 Goldeneye Ln

Street/P.O. Box

Durango CO 81303

City State Zip

000-000-0000

Phone Number

Hydrogen Sulfide: 5

(HACH test Kit Field)

Detection Limit 0.1 mg/L

Coliform Bacteria: Absent

San Juan Basin Health  
State of Co Health Dept.

Field Chemistries

8.97  
PH Field

630  
ECond.(us)

394  
TDS CALC

15  
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

706573 1638  
Facility ID IID (COGCC) #

520 Goldeneye Ln

Street/ P.O. Box

Durango CO 81303

City State Zip

188323  
Water Well Permit #

216

Well Depth (ft)

40

Static Water Level (ft)

7

Yield Permit (gpm)

-107.88756  
Longitude (DecDegrees NAD 83)

37.14103  
Latitude (DecDegrees NAD 83)

SESW  
QRQR

36  
Section

34  
TWP(North)

10  
RGE(West)

0275S1950W  
FTG

Met Anne. Sample from faucet on south side of house, next to entry door. Water clear, strong "S" odor, no tint, effervescent; bubbles from end of hose, no sediment. Ethane-Trace. Isotope shipped. BARTs.

Comments

Animas 34-10;#36-2A  
ConocoPhillips Gas Well Name

SE Sec 36 T34N R10W  
Gas Well Location

NA

Water Well Name  
6 Year Posttest

Test Name

NA

Previous Owner

NA

Concern/Special Request

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.

## Exhibit C

## Job 10311

Company Lab No.	Isotech Lab No.	Sample Name	Field Name	Location	GC date	He %	H <sub>2</sub> %	Ar %	O <sub>2</sub> %	CO <sub>2</sub> %	N <sub>2</sub> %	CO %	C <sub>1</sub> %	C <sub>2</sub> %	C <sub>2</sub> H <sub>4</sub> %	C <sub>3</sub> %	iC <sub>4</sub> %	nC <sub>4</sub> %	iC <sub>5</sub> %	nC <sub>5</sub> %	C <sub>6</sub> + %	δ <sup>13</sup> C <sub>1</sub> ‰	δDC <sub>1</sub> ‰	Specific Gravity	BTU	Helium dilution factor *	
FCG 090908-B3	144788	Kevin & Anne Brennan Pretest	Animas 34-10; #36-2A	Sec 36 T34N R10W	9/18/2008	0	0	0.899	0.0473	0.3	52.78	0	45.71	0.212	0	0.04	0.0072	0	0	0	0	-40.9	-141	0.784	468	0.73	
Chemical analysis based on standards accurate to within 2%																											

## Exhibit D



Lab #: 165042 Job #: 11599  
 Sample Name: Kevin & Anne Brennan Co. Lab#: FCG# 062409-J3  
 Company: ConocoPhillips  
 Date Sampled: 6/24/2009  
 Container: Dissolved Gas Bottle  
 Field/Site Name: Animas 34-10; #36-2A  
 Location: Sec 36 T34N R10W  
 Formation/Depth: 1 Year Posttest  
 Sampling Point:  
 Date Received: 6/25/2009 Date Reported: 7/28/2009

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 -----	1.01			
Oxygen -----	0.236			
Nitrogen -----	62.29			
Carbon Dioxide -----	0.40	-27.52		
Methane -----	35.89	-41.29	-130.8	
Ethane -----	0.140			
Ethylene -----	nd			
Propane -----	0.0092			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	0.0206			

Total BTU/cu.ft. dry @ 60deg F & 14.7psia, calculated: 367  
 Specific gravity, calculated: 0.826

Remarks: Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.75

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%

# Exhibit E



2030 Afton Place  
Farmington, NM 87401  
(505) 325-6622

Analysis No: CP150254  
Cust No: 18300-17435

### Well/Lease Information

Customer Name: CONOCO PHILLIPS COMPANY  
Well Name: ANIMAS 34-10 #36-2A  
County/State: LA PLATA  
Location:  
Field:  
Formation:  
Cust. Stn. No.: 06633110  
9239752

Source:  
Pressure: 23 PSIG  
Sample Temp: 53 DEG. F  
Well Flowing: Y  
Date Sampled: 05/11/2015  
Sampled By: FGM  
Foreman/Engr.:

Remarks:

### Analysis

Component:	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.021	0.0020	0.00	0.0002
CO2	3.510	0.6000	0.00	0.0533
Methane	96.255	16.3480	972.18	0.5332
Ethane	0.202	0.0540	3.57	0.0021
Propane	0.007	0.0020	0.18	0.0001
Iso-Butane	0.001	0.0000	0.03	0.0000
N-Butane	0.000	0.0000	0.00	0.0000
I-Pentane	0.000	0.0000	0.00	0.0000
N-Pentane	0.000	0.0000	0.00	0.0000
Hexane Plus	0.004	0.0020	0.21	0.0001
Total	100.000	17.0080	976.17	0.5890

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

\*\*@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0021  
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 980.5  
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 963.4  
REAL SPECIFIC GRAVITY: 0.5901

GPM, BTU, and SPG calculations as shown  
above are based on current GPA factors.

DRY BTU @ 14.650: 975.2  
DRY BTU @ 14.696: 978.2  
DRY BTU @ 14.730: 980.5  
DRY BTU @ 15.025: 1000.1

CYLINDER #: 6124  
CYLINDER PRESSURE: 36 PSIG  
DATE RUN: 5/27/15 1:15 PM  
ANALYSIS RUN BY: DAWN BLASSINGAME