



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

Analysis No: CP160397  
Cust No: 18300-27890

### Well/Lease Information

Customer Name: CONOCO PHILLIPS COMPANY  
Well Name: SAN JUAN 30-5 #70 BHD MV/DK  
County/State: RIO ARRIBA NM  
Location: A09-30N-05W  
Field:  
Formation: MV/DK  
Cust. Str. No.: 300392246200C01

Source: BRADENHEAD  
Pressure: 43 PSIG  
Sample Temp: DEG. F  
Well Flowing:  
Date Sampled: 06/17/2016  
Sampled By: BRAIN CAIN  
Foreman/Engr.: BERKELEY BROWN

OIL CONS. DIV DIST. 3

AUG 31 2016

Remarks: AREA 5  
W/O# 9278014

### Analysis

| Component:: | Mole%:  | **GPM:  | *BTU:   | *SP Gravity: |
|-------------|---------|---------|---------|--------------|
| Nitrogen    | 1.168   | 0.1290  | 0.00    | 0.0113       |
| CO2         | 0.005   | 0.0010  | 0.00    | 0.0001       |
| Methane     | 93.689  | 15.9140 | 946.26  | 0.5189       |
| Ethane      | 4.582   | 1.2280  | 81.09   | 0.0476       |
| Propane     | 0.277   | 0.0760  | 6.97    | 0.0042       |
| Iso-Butane  | 0.103   | 0.0340  | 3.35    | 0.0021       |
| N-Butane    | 0.045   | 0.0140  | 1.47    | 0.0009       |
| I-Pentane   | 0.048   | 0.0180  | 1.92    | 0.0012       |
| N-Pentane   | 0.021   | 0.0080  | 0.84    | 0.0005       |
| Hexane Plus | 0.062   | 0.0280  | 3.27    | 0.0021       |
| Total       | 100.000 | 17.4500 | 1045.16 | 0.5888       |

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

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

COMPRESSIBILITY FACTOR (1/Z): 1.0022  
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1049.9  
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1031.6  
REAL SPECIFIC GRAVITY: 0.5899

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

DRY BTU @ 14.650: 1044.2  
DRY BTU @ 14.696: 1047.5  
DRY BTU @ 14.730: 1049.9  
DRY BTU @ 15.025: 1070.9

CYLINDER #: 6133  
CYLINDER PRESSURE: 39 PSIG  
DATE RUN: 6/21/16 12:00 AM  
ANALYSIS RUN BY: DAWN BLASSINGAME



CONOCO PHILLIPS COMPANY  
WELL ANALYSIS COMPARISON

Lease: SAN JUAN 30-5 #70 BHD MV/DK  
Stn. No.:  
Mtr. No.: 300392246200C01

BRADENHEAD  
MV/DK

06/23/2016  
18300-27890

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Smpl Date: 06/17/2016  
Test Date: 06/21/2016  
Run No: CP160397

Nitrogen: 1.168  
CO2: 0.005  
Methane: 93.689  
Ethane: 4.582  
Propane: 0.277  
I-Butane: 0.103  
N-Butane: 0.045  
I-Pentane: 0.048  
N-Pentane: 0.021  
Hexane+: 0.062

BTU: 1049.9  
GPM: 17.4500  
SPG: 0.5899



2030 Afton Place  
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(505) 325-6622

Analysis No: CP160398  
Cust No: 18300-27895

### Well/Lease Information

Customer Name: CONOCO PHILLIPS COMPANY  
Well Name: SAN JUAN 30-5 #70 CSG MV/DK  
County/State: RIO ARriba NM  
Location: A09-30N-05W  
Field:  
Formation: MV/DK  
Cust. Stn. No.: 300392246200C01

Source: CASING  
Pressure: 174 PSIG  
Sample Temp: DEG. F  
Well Flowing:  
Date Sampled: 06/17/2016  
Sampled By: BRIAN CAIN  
Foreman/Engr.: BERKELEY BROWN

Remarks: AREA 5 W/O# 9278014  
SAMPLE CONTAINED A SMALL AMOUNT OF CONDENSATE.

### Analysis

| Component:  | Mole%:  | **GPM:  | *BTU:   | *SP Gravity: |
|-------------|---------|---------|---------|--------------|
| Nitrogen    | 0.330   | 0.0360  | 0.00    | 0.0032       |
| CO2         | 1.524   | 0.2610  | 0.00    | 0.0232       |
| Methane     | 93.230  | 15.8380 | 941.62  | 0.5164       |
| Ethane      | 3.525   | 0.9450  | 62.38   | 0.0366       |
| Propane     | 0.942   | 0.2600  | 23.70   | 0.0143       |
| Iso-Butane  | 0.125   | 0.0410  | 4.06    | 0.0025       |
| N-Butane    | 0.159   | 0.0500  | 5.19    | 0.0032       |
| I-Pentane   | 0.054   | 0.0200  | 2.16    | 0.0013       |
| N-Pentane   | 0.044   | 0.0160  | 1.76    | 0.0011       |
| Hexane Plus | 0.067   | 0.0300  | 3.53    | 0.0022       |
| Total       | 100.000 | 17.4970 | 1044.41 | 0.6040       |

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

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

COMPRESSIBILITY FACTOR (1/Z): 1.0023

BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1049.2

BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1030.9

REAL SPECIFIC GRAVITY: 0.6052

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

DRY BTU @ 14.650: 1043.5

DRY BTU @ 14.696: 1046.8

DRY BTU @ 14.730: 1049.2

DRY BTU @ 15.025: 1070.2

CYLINDER #: 4034

CYLINDER PRESSURE: 164 PSIG

DATE RUN: 6/21/16 12:00 AM

ANALYSIS RUN BY: DAWN BLASSINGAME





CONOCO PHILLIPS COMPANY  
WELL ANALYSIS COMPARISON

Lease: SAN JUAN 30-5 #70 CSG MV/DK  
Stn. No.:  
Mtr. No.: 300392246200C01

CASING  
MV/DK

06/23/2016  
18300-27895

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Smpl Date: 06/17/2016  
Test Date: 06/21/2016  
Run No: CP160398

Nitrogen: 0.330  
CO2: 1.524  
Methane: 93.230  
Ethane: 3.525  
Propane: 0.942  
I-Butane: 0.125  
N-Butane: 0.159  
I-Pentane: 0.054  
N-Pentane: 0.044  
Hexane+: 0.067

BTU: 1049.2  
GPM: 17.4970  
SPG: 0.6052



2030 Afton Place  
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Analysis No: CP160399  
Cust No: 18300-27900

### Well/Lease Information

Customer Name: CONOCO PHILLIPS COMPANY  
Well Name: SAN JUAN 30-5 #70 INTRM MV/DK  
County/State: RIO ARriba NM  
Location: A09-30N-05W  
Field:  
Formation: MV/DK  
Cust. Str. No.: 300392246200C01

Source: INTERMEDIATE  
Pressure: 11 PSIG  
Sample Temp: DEG. F  
Well Flowing: Y  
Date Sampled: 06/17/2016  
Sampled By: BRIAN CAIN  
Foreman/Engr.: BERKELEY BROWN

Remarks: AREA 5 W/O# 9278014  
PRESSURED WITH HELIUM TO 30 LBS.

### Analysis

| Component:: | Mole%:  | **GPM:  | *BTU:  | *SP Gravity: |
|-------------|---------|---------|--------|--------------|
| Nitrogen    | 53.771  | 5.9200  | 0.00   | 0.5201       |
| CO2         | 0.137   | 0.0230  | 0.00   | 0.0021       |
| Methane     | 45.597  | 7.7350  | 460.53 | 0.2526       |
| Ethane      | 0.281   | 0.0750  | 4.97   | 0.0029       |
| Propane     | 0.088   | 0.0240  | 2.21   | 0.0013       |
| Iso-Butane  | 0.013   | 0.0040  | 0.42   | 0.0003       |
| N-Butane    | 0.030   | 0.0090  | 0.98   | 0.0006       |
| I-Pentane   | 0.000   | 0.0000  | 0.00   | 0.0000       |
| N-Pentane   | 0.000   | 0.0000  | 0.00   | 0.0000       |
| Hexane Plus | 0.083   | 0.0370  | 4.37   | 0.0027       |
| Total       | 100.000 | 13.8270 | 473.49 | 0.7826       |

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

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

COMPRESSIBILITY FACTOR (1/Z): 1.0009  
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 475.0  
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 466.7  
REAL SPECIFIC GRAVITY: 0.783

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

DRY BTU @ 14.650: 472.4  
DRY BTU @ 14.696: 473.9  
DRY BTU @ 14.730: 475.0  
DRY BTU @ 15.025: 484.5

CYLINDER #: 7050  
CYLINDER PRESSURE: PSIG  
DATE RUN: 6/21/16 12:00 AM  
ANALYSIS RUN BY: DAWN BLASSINGAME



CONOCO PHILLIPS COMPANY  
WELL ANALYSIS COMPARISON

Lease: SAN JUAN 30-5 #70 INTRM MV/DK  
Stn. No.:  
Mtr. No.: 300392246200C01

INTERMEDIATE  
MV/DK

06/23/2016  
18300-27900

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Smpl Date: 06/17/2016  
Test Date: 06/21/2016  
Run No: CP160399  
  
Nitrogen: 53.771  
CO2: 0.137  
Methane: 45.597  
Ethane: 0.281  
Propane: 0.088  
I-Butane: 0.013  
N-Butane: 0.030  
I-Pentane: 0.000  
N-Pentane: 0.000  
Hexane+: 0.083  
  
BTU: 475.0  
GPM: 13.8270  
SPG: 0.7830