



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

Analysis No: CP140247  
Cust No: 18300-17860

### Well/Lease Information

Customer Name: CONOCO PHILLIPS COMPANY  
Well Name: HUERFANITO 96  
County/State: SAN JUAN NM  
Location: A22-27N-09W  
Field:  
Formation: DAKOTA  
Cust. Stn. No.: 7532801  
AM02329591NO

Source: BRADENHEAD  
Pressure: 194 PSIG  
Sample Temp: DEG. F  
Well Flowing: Y  
Date Sampled: 03/25/2014  
Sampled By: JAY MARTINEZ  
Foreman/Engr.:

OIL CONS. DIV DIST. 3

Remarks: API #30-045-12051

MAY 14 2014

### Analysis

| Component:: | Mole%:  | **GPM:  | *BTU:   | *SP Gravity: |
|-------------|---------|---------|---------|--------------|
| Nitrogen    | 0.241   | 0.0270  | 0.00    | 0.0023       |
| CO2         | 0.024   | 0.0040  | 0.00    | 0.0004       |
| Methane     | 88.004  | 14.9590 | 888.84  | 0.4875       |
| Ethane      | 7.699   | 2.0640  | 136.25  | 0.0799       |
| Propane     | 2.136   | 0.5900  | 53.74   | 0.0325       |
| Iso-Butane  | 0.526   | 0.1730  | 17.10   | 0.0106       |
| N-Butane    | 0.501   | 0.1580  | 16.34   | 0.0101       |
| I-Pentane   | 0.279   | 0.1020  | 11.16   | 0.0070       |
| N-Pentane   | 0.154   | 0.0560  | 6.17    | 0.0038       |
| Hexane Plus | 0.436   | 0.1950  | 22.98   | 0.0144       |
| Total       | 100.000 | 18.3280 | 1152.60 | 0.6484       |

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

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

COMPRESSIBILITY FACTOR (1/Z): 1.0029  
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1158.6  
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1138.4  
REAL SPECIFIC GRAVITY: 0.6501

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

DRY BTU @ 14.650: 1152.3  
DRY BTU @ 14.696: 1155.9  
DRY BTU @ 14.730: 1158.6  
DRY BTU @ 15.025: 1181.8

CYLINDER #: GAS201  
CYLINDER PRESSURE: 92 PSIG  
DATE RUN: 4/15/14 12:00 AM  
ANALYSIS RUN BY: AMANDA ARMENTA



CONOCO PHILLIPS COMPANY  
WELL ANALYSIS COMPARISON

Lease: HUERFANITO 96  
Stn. No.: 7532801  
Mtr. No.: AM02329591NO

BRADENHEAD  
DAKOTA

04/16/2014  
18300-17860

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|            |            |            |            |
|------------|------------|------------|------------|
| Smpl Date: | 03/25/2014 | 06/08/2012 | 08/18/2009 |
| Test Date: | 04/15/2014 | 07/10/2012 | 08/20/2009 |
| Run No:    | CP140247   | CP120525   | CP290872   |
| Nitrogen:  | 0.241      | 2.709      | 2.484      |
| CO2:       | 0.024      | 0.080      | 0.014      |
| Methane:   | 88.004     | 85.676     | 85.614     |
| Ethane:    | 7.699      | 6.417      | 6.686      |
| Propane:   | 2.136      | 3.487      | 3.505      |
| I-Butane:  | 0.526      | 0.905      | 0.877      |
| N-Butane:  | 0.501      | 0.267      | 0.330      |
| I-Pentane: | 0.279      | 0.242      | 0.266      |
| N-Pentane: | 0.154      | 0.027      | 0.049      |
| Hexane+:   | 0.436      | 0.190      | 0.175      |
| BTU:       | 1158.6     | 1131.2     | 1138.0     |
| GPM:       | 18.3280    | 18.1240    | 18.1770    |
| SPG:       | 0.6501     | 0.6597     | 0.6604     |



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Analysis No: CP140248  
Cust No: 18300-17865

### Well/Lease Information

Customer Name: CONOCO PHILLIPS COMPANY  
Well Name: HUERFANITO 96  
County/State: SAN JUAN NM  
Location: A22-27N-09W  
Field:  
Formation: DAKOTA  
Cust. Stn. No.: 7532801  
AM02329591NO

Source: CASING  
Pressure: 89.2 PSIG  
Sample Temp: DEG. F  
Well Flowing: Y  
Date Sampled: 03/25/2014  
Sampled By: JAY MARTINEZ  
Foreman/Engr.:

OIL CONS. DIV DIST. 3

MAY 14 2014

Remarks: API #30-045-12051

### Analysis

| Component:  | Mole%:  | **GPM:  | *BTU:   | *SP Gravity: |
|-------------|---------|---------|---------|--------------|
| Nitrogen    | 0.292   | 0.0320  | 0.00    | 0.0028       |
| CO2         | 1.179   | 0.2020  | 0.00    | 0.0179       |
| Methane     | 86.709  | 14.7390 | 875.76  | 0.4803       |
| Ethane      | 7.587   | 2.0340  | 134.27  | 0.0788       |
| Propane     | 2.168   | 0.5990  | 54.55   | 0.0330       |
| Iso-Butane  | 0.528   | 0.1730  | 17.17   | 0.0106       |
| N-Butane    | 0.513   | 0.1620  | 16.74   | 0.0103       |
| I-Pentane   | 0.294   | 0.1080  | 11.76   | 0.0073       |
| N-Pentane   | 0.157   | 0.0570  | 6.29    | 0.0039       |
| Hexane Plus | 0.573   | 0.2560  | 30.20   | 0.0190       |
| Total       | 100.000 | 18.3620 | 1146.74 | 0.6639       |

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

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

COMPRESSIBILITY FACTOR (1/Z): 1.0029

BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1152.7

BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1132.6

REAL SPECIFIC GRAVITY: 0.6655

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

DRY BTU @ 14.650: 1146.4

DRY BTU @ 14.696: 1150.0

DRY BTU @ 14.730: 1152.7

DRY BTU @ 15.025: 1175.8

CYLINDER #: GAS108

CYLINDER PRESSURE: 71 PSIG

DATE RUN: 4/15/14 12:00 AM

ANALYSIS RUN BY: AMANDA ARMENTA



CONOCO PHILLIPS COMPANY  
WELL ANALYSIS COMPARISON

Lease: HUERFANITO 96  
Stn. No.: 7532801  
Mtr. No.: AM02329591NO

CASING  
DAKOTA

04/16/2014  
18300-17865

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|            |            |            |
|------------|------------|------------|
| Smpl Date: | 03/25/2014 | 08/18/2009 |
| Test Date: | 04/15/2014 | 08/20/2009 |
| Run No:    | CP140248   | CP290873   |
| Nitrogen:  | 0.292      | 0.387      |
| CO2:       | 1.179      | 1.188      |
| Methane:   | 86.709     | 84.960     |
| Ethane:    | 7.587      | 8.278      |
| Propane:   | 2.168      | 2.642      |
| I-Butane:  | 0.528      | 0.600      |
| N-Butane:  | 0.513      | 0.684      |
| I-Pentane: | 0.294      | 0.361      |
| N-Pentane: | 0.157      | 0.219      |
| Hexane+:   | 0.573      | 0.681      |
| BTU:       | 1152.7     | 1178.0     |
| GPM:       | 18.3620    | 18.5690    |
| SPG:       | 0.6655     | 0.6824     |