



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

Analysis No: CP140142  
 Cust No: 18300-25465

**Well/Lease Information**

|                 |                         |                |              |
|-----------------|-------------------------|----------------|--------------|
| Customer Name:  | CONOCO PHILLIPS COMPANY | Source:        | INTERMEDIATE |
| Well Name:      | SAN JUAN 27-5 #108E INT | Pressure:      | 121 PSIG     |
| County/State:   | RIO ARRIBA              | Sample Temp:   | 58 DEG. F    |
| Location:       |                         | Well Flowing:  |              |
| Field:          | AREA 25                 | Date Sampled:  | 02/26/2014   |
| Formation:      |                         | Sampled By:    | LYNN HOPPE   |
| Cust. Str. No.: | 9952572                 | Foreman/Engr.: |              |
|                 | API 3003923910          |                |              |

OIL CONS. DIV DIST. 3  
 MAY 14 2014

Remarks:

**Analysis**

| Component:   | Mole%:         | **GPM:         | *BTU:          | *SP Gravity:  |
|--------------|----------------|----------------|----------------|---------------|
| Nitrogen     | 0.326          | 0.0360         | 0.00           | 0.0032        |
| CO2          | 0.197          | 0.0340         | 0.00           | 0.0030        |
| Methane      | 89.798         | 15.2610        | 906.96         | 0.4974        |
| Ethane       | 5.569          | 1.4930         | 98.56          | 0.0578        |
| Propane      | 2.532          | 0.6990         | 63.71          | 0.0386        |
| Iso-Butane   | 0.334          | 0.1100         | 10.86          | 0.0067        |
| N-Butane     | 0.587          | 0.1860         | 19.15          | 0.0118        |
| I-Pentane    | 0.169          | 0.0620         | 6.76           | 0.0042        |
| N-Pentane    | 0.133          | 0.0480         | 5.33           | 0.0033        |
| Hexane Plus  | 0.355          | 0.1590         | 18.71          | 0.0117        |
| <b>Total</b> | <b>100.000</b> | <b>18.0880</b> | <b>1130.04</b> | <b>0.6377</b> |

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

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

COMPRESSIBILITY FACTOR (1/Z): 1.0027  
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1135.7  
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1115.9  
 REAL SPECIFIC GRAVITY: 0.6391

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

DRY BTU @ 14.650: 1129.5  
 DRY BTU @ 14.696: 1133.1  
 DRY BTU @ 14.730: 1135.7  
 DRY BTU @ 15.025: 1158.4

CYLINDER #: 044A  
 CYLINDER PRESSURE: 110 PSIG  
 DATE RUN: 3/11/14 12:40 PM  
 ANALYSIS RUN BY: PATRICIA KING



CONOCO PHILLIPS COMPANY  
WELL ANALYSIS COMPARISON

Lease: SAN JUAN 27-5 #108E INT  
Stn. No.: 9952572  
Mtr. No.: API 3003923910

INTERMEDIATE

03/20/2014  
18300-25465

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Smpl Date: 02/26/2014  
Test Date: 03/11/2014  
Run No: CP140142  
Nitrogen: 0.326  
CO2: 0.197  
Methane: 89.798  
Ethane: 5.569  
Propane: 2.532  
I-Butane: 0.334  
N-Butane: 0.587  
I-Pentane: 0.169  
N-Pentane: 0.133  
Hexane+: 0.355  
BTU: 1135.7  
GPM: 18.0880  
SPG: 0.6391



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

Analysis No: CP140141  
 Cust No: 18300-25460

**Well/Lease Information**

Customer Name: CONOCO PHILLIPS COMPANY  
 Well Name: SAN JUAN 27-5 #108E CSG  
 County/State: RIO ARRIBA  
 Location:  
 Field: AREA 25  
 Formation:  
 Cust. Str. No.: 9952572  
 API 3003923910

Source: CASING  
 Pressure: 205 PSIG  
 Sample Temp: 58 DEG. F  
 Well Flowing:  
 Date Sampled: 02/26/2014  
 Sampled By: LYNN HOPPE  
 Foreman/Engr.:

OIL CONS. DIV DIST. 3  
 MAY 14 2014

Remarks:

**Analysis**

| Component::  | Mole%:         | **GPM:         | *BTU:          | *SP Gravity:  |
|--------------|----------------|----------------|----------------|---------------|
| Nitrogen     | 0.329          | 0.0360         | 0.00           | 0.0032        |
| CO2          | 1.046          | 0.1790         | 0.00           | 0.0159        |
| Methane      | 86.540         | 14.7130        | 874.05         | 0.4793        |
| Ethane       | 6.384          | 1.7120         | 112.98         | 0.0663        |
| Propane      | 2.468          | 0.6820         | 62.10          | 0.0376        |
| Iso-Butane   | 0.619          | 0.2030         | 20.13          | 0.0124        |
| N-Butane     | 0.936          | 0.2960         | 30.54          | 0.0188        |
| I-Pentane    | 0.538          | 0.1970         | 21.53          | 0.0134        |
| N-Pentane    | 0.391          | 0.1420         | 15.67          | 0.0097        |
| Hexane Plus  | 0.749          | 0.3350         | 39.48          | 0.0248        |
| <b>Total</b> | <b>100.000</b> | <b>18.4950</b> | <b>1176.47</b> | <b>0.6814</b> |

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

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

COMPRESSIBILITY FACTOR (1/Z): 1.0031  
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1182.9  
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1162.3  
 REAL SPECIFIC GRAVITY: 0.6833

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

DRY BTU @ 14.650: 1176.5  
 DRY BTU @ 14.696: 1180.2  
 DRY BTU @ 14.730: 1182.9  
 DRY BTU @ 15.025: 1206.6

CYLINDER #: 014  
 CYLINDER PRESSURE: 190 PSIG  
 DATE RUN: 3/11/14 12:37 PM  
 ANALYSIS RUN BY: LOGAN CHENEY



CONOCO PHILLIPS COMPANY  
WELL ANALYSIS COMPARISON

Lease: SAN JUAN 27-5 #108E CSG  
Stn. No.: 9952572  
Mtr. No.: API 3003923910

CASING

03/20/2014  
18300-25460

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Smpl Date: 02/26/2014  
Test Date: 03/11/2014  
Run No: CP140141  
Nitrogen: 0.329  
CO2: 1.046  
Methane: 86.540  
Ethane: 6.384  
Propane: 2.468  
I-Butane: 0.619  
N-Butane: 0.936  
I-Pentane: 0.538  
N-Pentane: 0.391  
Hexane+: 0.749  
BTU: 1182.9  
GPM: 18.4950  
SPG: 0.6333