



OIL CONS. DIV DIST. 3

MAY 18 2016

API #3003907082

2030 Afton Place  
Farmington, NM 87401  
(505) 325-6622Analysis No: CP160246  
Cust No: 18300-18875**Well/Lease Information**

Customer Name: CONOCO PHILLIPS COMPANY  
Well Name: **SAN JUAN 27-5 #57**  
County/State: RIO ARRIBA NM  
Location: F13-27N-05W  
Field:  
Formation:  
Cust. Strn. No.: A02282912SM  
API 3003907082

Source: **INTERMEDIATE**  
Pressure: PSIG  
Sample Temp: DEG. F  
Well Flowing: N  
Date Sampled: 05/10/2016  
Sampled By: KEVIN PETERSON  
Foreman/Engr.: TAPPAN SOUTHER

Remarks: W/O 9277789

**Analysis**

| Component:: | Mole%:  | **GPM:  | *BTU:   | *SP Gravity: |
|-------------|---------|---------|---------|--------------|
| Nitrogen    | 0.990   | 0.1090  | 0.00    | 0.0096       |
| CO2         | 0.014   | 0.0020  | 0.00    | 0.0002       |
| Methane     | 83.999  | 14.2820 | 848.39  | 0.4653       |
| Ethane      | 7.515   | 2.0160  | 132.99  | 0.0780       |
| Propane     | 4.653   | 1.2860  | 117.08  | 0.0708       |
| Iso-Butane  | 0.561   | 0.1840  | 18.24   | 0.0113       |
| N-Butane    | 1.151   | 0.3640  | 37.55   | 0.0231       |
| I-Pentane   | 0.305   | 0.1120  | 12.20   | 0.0076       |
| N-Pentane   | 0.263   | 0.0960  | 10.54   | 0.0066       |
| Hexane Plus | 0.549   | 0.2460  | 28.94   | 0.0182       |
| Total       | 100.000 | 18.6970 | 1205.93 | 0.6906       |

\* @ 14.730 PSIA DRY &amp; UNCORRECTED FOR COMPRESSIBILITY

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

COMPRESSIBILITY FACTOR (1/Z): 1.0032  
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1212.6  
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1191.5  
REAL SPECIFIC GRAVITY: 0.6925

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

DRY BTU @ 14.650: 1206.0  
DRY BTU @ 14.696: 1209.8  
DRY BTU @ 14.730: 1212.6  
DRY BTU @ 15.025: 1236.9

CYLINDER #: 4004  
CYLINDER PRESSURE: PSIG  
DATE RUN: 5/12/16 4:36 PM  
ANALYSIS RUN BY: Shyann Elledge



CONOCO PHILLIPS COMPANY  
WELL ANALYSIS COMPARISON

Lease: SAN JUAN 27-5 #57  
Stn. No.: A02282912SM  
Mtr. No.: API 3003907082

INTERMEDIATE

05/13/2016  
18300-18875

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|            |            |            |
|------------|------------|------------|
| Smpl Date: | 05/10/2016 | 07/14/2010 |
| Test Date: | 05/12/2016 | 07/16/2010 |
| Run No:    | CP160246   | CP100473   |
| Nitrogen:  | 0.990      | 0.834      |
| CO2:       | 0.014      | 0.005      |
| Methane:   | 83.999     | 85.068     |
| Ethane:    | 7.515      | 7.626      |
| Propane:   | 4.653      | 4.472      |
| I-Butane:  | 0.561      | 0.489      |
| N-Butane:  | 1.151      | 0.942      |
| I-Pentane: | 0.305      | 0.215      |
| N-Pentane: | 0.263      | 0.172      |
| Hexane+:   | 0.549      | 0.177      |
| BTU:       | 1212.6     | 1184.4     |
| GPM:       | 18.6970    | 18.5130    |
| SPG:       | 0.6925     | 0.6728     |



OIL CONS. DIV DIST. 3

MAY 18 2016

API #3003907082

2030 Afton Place  
Farmington, NM 87401  
(505) 325-6622Analysis No: CP160245  
Cust No: 18300-18870**Well/Lease Information**Customer Name: CONOCO PHILLIPS COMPANY  
Well Name: SAN JUAN 27-5 #57  
County/State: RIO ARriba NM  
Location: F13-27N-05W  
Field:  
Formation:  
Cust. Str. No.: A02282912SM  
API 3003907082Source: CASING  
Pressure: PSIG  
Sample Temp: DEG. F  
Well Flowing: N  
Date Sampled: 05/10/2016  
Sampled By: KEVIN PETERSON  
Foreman/Engr.: TAPPAN SOUTHER

Remarks: W/O 9277789

**Analysis**

| Component:: | Mole%:  | **GPM:  | *BTU:   | *SP Gravity: |
|-------------|---------|---------|---------|--------------|
| Nitrogen    | 0.323   | 0.0360  | 0.00    | 0.0031       |
| CO2         | 0.807   | 0.1380  | 0.00    | 0.0123       |
| Methane     | 82.575  | 14.0430 | 834.01  | 0.4574       |
| Ethane      | 8.853   | 2.3750  | 156.67  | 0.0919       |
| Propane     | 4.148   | 1.1460  | 104.37  | 0.0632       |
| Iso-Butane  | 0.737   | 0.2420  | 23.97   | 0.0148       |
| N-Butane    | 1.238   | 0.3920  | 40.39   | 0.0248       |
| I-Pentane   | 0.453   | 0.1660  | 18.12   | 0.0113       |
| N-Pentane   | 0.370   | 0.1350  | 14.83   | 0.0092       |
| Hexane Plus | 0.496   | 0.2220  | 26.14   | 0.0164       |
| Total       | 100.000 | 18.8950 | 1218.50 | 0.7044       |

\* @ 14.730 PSIA DRY &amp; UNCORRECTED FOR COMPRESSIBILITY

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

COMPRESSIBILITY FACTOR (1/Z): 1.0034  
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1225.5  
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1204.2  
REAL SPECIFIC GRAVITY: 0.7065GPM, BTU, and SPG calculations as shown  
above are based on current GPA factors.DRY BTU @ 14.650: 1218.8  
DRY BTU @ 14.696: 1222.7  
DRY BTU @ 14.730: 1225.5  
DRY BTU @ 15.025: 1250.0CYLINDER #: 4210  
CYLINDER PRESSURE: 150 PSIG  
DATE RUN: 5/12/16 12:00 AM  
ANALYSIS RUN BY: PATRICIA KING



CONOCO PHILLIPS COMPANY  
WELL ANALYSIS COMPARISON

Lease: SAN JUAN 27-5 #57  
Stn. No.: A02282912SM  
Mtr. No.: API 3003907082

CASING

05/13/2016  
18300-18870

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|            |            |            |
|------------|------------|------------|
| Smpl Date: | 05/10/2016 | 07/14/2010 |
| Test Date: | 05/12/2016 | 07/16/2010 |
| Run No:    | CP160245   | CP100472   |
| Nitrogen:  | 0.323      | 0.407      |
| CO2:       | 0.807      | 0.882      |
| Methane:   | 82.575     | 83.728     |
| Ethane:    | 8.853      | 8.360      |
| Propane:   | 4.148      | 3.999      |
| I-Butane:  | 0.737      | 0.660      |
| N-Butane:  | 1.238      | 1.047      |
| I-Pentane: | 0.453      | 0.334      |
| N-Pentane: | 0.370      | 0.266      |
| Hexane+:   | 0.496      | 0.317      |
| BTU:       | 1225.5     | 1197.2     |
| GPM:       | 18.8950    | 18.6850    |
| SPG:       | 0.7065     | 0.6903     |