



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

Analysis No: CP160484
Cust No: 18300-25775

Well/Lease Information

Customer Name: CONOCO PHILLIPS COMPANY
Well Name: SAN JUAN 28-7 #23 BHD
County/State: SAN JUAN
Location: A15-28N-07W
Field:
Formation: PC/MV
Cust. Stn. No.: 71016
300390743300C01

OIL CONS. DIV DIST. 3

AUG 26 2016

Source: BRADENHEAD
Pressure: 0.2 PSIG
Sample Temp: 64 DEG. F
Well Flowing: N
Date Sampled: 08/18/2016
Sampled By: N/A
Foreman/Engr.: R. POYTHRESS

Remarks: NO SAMPLE DATE PROVIDED
PRESSURED WITH HELIUM TO 30 LBS.

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	98.450	10.8320	0.00	0.9522
CO2	0.100	0.0170	0.00	0.0015
Methane	1.043	0.1770	10.53	0.0058
Ethane	0.033	0.0090	0.58	0.0003
Propane	0.032	0.0090	0.81	0.0005
Iso-Butane	0.026	0.0090	0.85	0.0005
N-Butane	0.039	0.0120	1.27	0.0008
I-Pentane	0.000	0.0000	0.00	0.0000
N-Pentane	0.000	0.0000	0.00	0.0000
Hexane Plus	0.277	0.1240	14.60	0.0092
Total	100.000	11.1890	28.64	0.9708

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0003

BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 28.7

BTU/CU.FT (WET) CORRECTED FOR (1/Z): 28.2

REAL SPECIFIC GRAVITY: 0.9707

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

DRY BTU @ 14.650: 28.5

DRY BTU @ 14.696: 28.6

DRY BTU @ 14.730: 28.7

DRY BTU @ 15.025: 29.3

CYLINDER #: 6052

CYLINDER PRESSURE: PSIG

DATE RUN: 8/19/16 9:25 AM

ANALYSIS RUN BY: Shyann Elledge



CONOCO PHILLIPS COMPANY
WELL ANALYSIS COMPARISON

Lease: SAN JUAN 28-7 #23 BHD
Stn. No.: 71016
Mtr. No.: 300390743300C01

BRADENHEAD
PC/MV

08/25/2016
18300-25775

Smpl Date:	08/18/2016	03/12/2014
Test Date:	08/19/2016	03/28/2014
Run No:	CP160484	CP140226
Nitrogen:	98.450	97.276
CO2:	0.100	0.134
Methane:	1.043	1.775
Ethane:	0.033	0.135
Propane:	0.032	0.071
I-Butane:	0.026	0.000
N-Butane:	0.039	0.022
I-Pentane:	0.000	0.000
N-Pentane:	0.000	0.000
Hexane+:	0.277	0.587
BTU:	28.7	53.9
GPM:	11.1890	11.3530
SPG:	0.9707	0.9751



2030 Afton Place
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(505) 325-6622

Analysis No: CP160486
Cust No: 18300-25165

Well/Lease Information

Customer Name: CONOCO PHILLIPS COMPANY
Well Name: SAN JUAN 28-7 #23 INTRM
County/State: SAN JUAN
Location: A15-28N-07W
Field:
Formation: PC/MV
Cust. Stn. No.: 71016
30039073300C01

Source: INTERMEDIATE
Pressure: 90 PSIA
Sample Temp: 64 DEG. F
Well Flowing: N
Date Sampled: 08/18/2016
Sampled By: N/A
Foreman/Engr.: R. POYTHRESS

Remarks: NO SAMPLE DATE PROVIDED

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	80.642	8.8760	0.00	0.7800
CO2	0.016	0.0030	0.00	0.0002
Methane	16.330	2.7700	164.93	0.0905
Ethane	0.557	0.1490	9.86	0.0058
Propane	0.661	0.1820	16.63	0.0101
Iso-Butane	0.500	0.1640	16.26	0.0100
N-Butane	0.710	0.2240	23.16	0.0142
I-Pentane	0.171	0.0630	6.84	0.0043
N-Pentane	0.110	0.0400	4.41	0.0027
Hexane Plus	0.303	0.1350	15.97	0.0100
Total	100.000	12.6060	258.07	0.9278

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0007
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 258.8
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 254.3
REAL SPECIFIC GRAVITY: 0.9281

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

DRY BTU @ 14.650: 257.4
DRY BTU @ 14.696: 258.2
DRY BTU @ 14.730: 258.8
DRY BTU @ 15.025: 264.0

CYLINDER #: 6249
CYLINDER PRESSURE: 77 PSIG
DATE RUN: 8/19/16 9:31 AM
ANALYSIS RUN BY: Shyann Elledge



CONOCO PHILLIPS COMPANY
WELL ANALYSIS COMPARISON

Lease: SAN JUAN 28-7 #23 INTRM
Stn. No.: 71016
Mtr. No.: 30039073300C01

INTERMEDIATE
PC/MV

08/25/2016
18300-25165

Smpl Date:	08/18/2016	03/12/2014	07/28/2013
Test Date:	08/19/2016	03/27/2014	08/01/2013
Run No:	CP160486	CP140228	CP130742
Nitrogen:	80.642	84.758	85.662
CO2:	0.016	0.034	0.016
Methane:	16.330	13.254	12.090
Ethane:	0.557	0.399	0.373
Propane:	0.661	0.477	0.515
I-Butane:	0.500	0.323	0.384
N-Butane:	0.710	0.429	0.526
I-Pentane:	0.171	0.095	0.132
N-Pentane:	0.110	0.059	0.084
Hexane+:	0.303	0.172	0.218
BTU:	258.8	193.2	192.0
GPM:	12.6060	12.1940	12.1900
SPG:	0.9281	0.9299	0.9385



2030 Afton Place
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Analysis No: CP160485
Cust No: 18300-25160

Well/Lease Information

Customer Name: CONOCO PHILLIPS COMPANY
Well Name: SAN JUAN 28-7 #23 CSG
County/State: SAN JUAN NM
Location: A15-28N-07W
Field:
Formation: PC/MV
Cust. Strn. No.: 71016
300390743300C01

Source: CASING
Pressure: 89 PSIG
Sample Temp: 64 DEG. F
Well Flowing: N
Date Sampled: 08/18/2016
Sampled By: N/A
Foreman/Engr.: R. POYTHRESS

Remarks: NO SAMPLE DATE PROVIDED

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.473	0.0520	0.00	0.0046
CO2	0.007	0.0010	0.00	0.0001
Methane	88.212	14.9940	890.94	0.4886
Ethane	6.053	1.6230	107.12	0.0628
Propane	3.206	0.8860	80.67	0.0488
Iso-Butane	0.564	0.1850	18.34	0.0113
N-Butane	0.609	0.1930	19.87	0.0122
I-Pentane	0.194	0.0710	7.76	0.0048
N-Pentane	0.135	0.0490	5.41	0.0034
Hexane Plus	0.547	0.2450	28.83	0.0181
Total	100.000	18.2990	1158.94	0.6548

* @ 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): 1165.0
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1144.7
REAL SPECIFIC GRAVITY: 0.6564

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

DRY BTU @ 14.650: 1158.7
DRY BTU @ 14.696: 1162.3
DRY BTU @ 14.730: 1165.0
DRY BTU @ 15.025: 1188.3

CYLINDER #: 4050
CYLINDER PRESSURE: 97 PSIG
DATE RUN: 8/19/16 9:30 AM
ANALYSIS RUN BY: Shyann Elledge



CONOCO PHILLIPS COMPANY
WELL ANALYSIS COMPARISON

Lease: SAN JUAN 28-7 #23 CSG
Stn. No.: 71016
Mtr. No.: 300390743300C01

CASING
PC/MV

08/25/2016
18300-25160

Smpl Date:	08/18/2016	03/12/2014	07/28/2013
Test Date:	08/19/2016	03/27/2014	08/01/2013
Run No:	CP160485	CP140227	CP130741
Nitrogen:	0.473	0.668	0.448
CO2:	0.007	1.030	0.919
Methane:	88.212	87.255	86.957
Ethane:	6.053	5.847	5.928
Propane:	3.206	3.281	3.256
I-Butane:	0.564	0.574	0.566
N-Butane:	0.609	0.653	0.657
I-Pentane:	0.194	0.200	0.208
N-Pentane:	0.135	0.136	0.152
Hexane+:	0.547	0.356	0.909
BTU:	1165.0	1145.4	1173.6
GPM:	18.2990	18.2300	18.4120
SPG:	0.6564	0.6625	0.6765