



API 3003930599

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

Analysis No: CP140675
Cust No: 18300-25540

Well/Lease Information

Customer Name: CONOCO PHILLIPS COMPANY
Well Name: SAN JUAN 30-5 #20M BHD
County/State: RIO ARRIBA NM
Location: G08-30N-05W
Field:
Formation: MV/DK
Cust. Stn. No.: 82360-018
AM02409885NO

Source: BRADENHEAD
Pressure: 37 PSIA
Sample Temp: 90 DEG. F
Well Flowing: Y
Date Sampled: 08/04/2014
Sampled By: J.H.
Foreman/Engr.: PRISCILLA SHORTY

OIL CONS. DIV DIST. 3
AUG 15 2014

Remarks:

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.167	0.0180	0.00	0.0016
CO2	0.056	0.0100	0.00	0.0009
Methane	96.172	16.3360	971.34	0.5327
Ethane	2.182	0.5850	38.61	0.0227
Propane	0.818	0.2260	20.58	0.0125
Iso-Butane	0.162	0.0530	5.27	0.0033
N-Butane	0.191	0.0600	6.23	0.0038
I-Pentane	0.063	0.0230	2.52	0.0016
N-Pentane	0.038	0.0140	1.52	0.0009
Hexane Plus	0.151	0.0670	7.96	0.0050
Total	100.000	17.3920	1054.04	0.5849

* @ 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): 1058.8
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1040.4
REAL SPECIFIC GRAVITY: 0.5859

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

DRY BTU @ 14.650: 1053.0
DRY BTU @ 14.696: 1056.4
DRY BTU @ 14.730: 1058.8
DRY BTU @ 15.025: 1080.0

CYLINDER #: 6173
CYLINDER PRESSURE: 36 PSIG
DATE RUN: 8/5/14 2:40 PM
ANALYSIS RUN BY: JENNIFER DEAN



CONOCO PHILLIPS COMPANY
WELL ANALYSIS COMPARISON

Lease: SAN JUAN 30-5 #20M BHD
Stn. No.: 82360-018
Mtr. No.: AM02409885NO

BRADENHEAD
MV/DK

08/12/2014
18300-25540

Smpl Date:	08/04/2014	02/25/2014
Test Date:	08/05/2014	03/10/2014
Run No:	CP140675	CP140173
Nitrogen:	0.167	0.164
CO2:	0.056	0.012
Methane:	96.172	96.422
Ethane:	2.182	2.062
Propane:	0.818	0.786
I-Butane:	0.162	0.152
N-Butane:	0.191	0.188
I-Pentane:	0.063	0.060
N-Pentane:	0.038	0.037
Hexane+:	0.151	0.117
BTU:	1058.8	1056.0
GPM:	17.3920	17.3640
SPG:	0.5859	0.5834



2030 Afton Place
Farmington, NM 87401
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Analysis No: CP140677
Cust No: 18300-25625

Well/Lease Information

Customer Name: CONOCO PHILLIPS COMPANY
Well Name: SAN JUAN 30-5 #20M
County/State: RIO ARRIBA NM
Location: G08-30N-05W
Field:
Formation: MV/DK
Cust. Stn. No.: 82360018
AM02409885NO

Source: CASING
Pressure: 103 PSIA
Sample Temp: 90 DEG. F
Well Flowing: Y
Date Sampled: 08/04/2014
Sampled By: J. H.
Foreman/Engr.: PRISCILLA SHORTY

Remarks:

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.225	0.0250	0.00	0.0022
CO2	4.821	0.8240	0.00	0.0733
Methane	92.809	15.7660	937.37	0.5141
Ethane	1.452	0.3890	25.70	0.0151
Propane	0.351	0.0970	8.83	0.0053
Iso-Butane	0.070	0.0230	2.28	0.0014
N-Butane	0.062	0.0200	2.02	0.0012
I-Pentane	0.024	0.0090	0.96	0.0006
N-Pentane	0.014	0.0050	0.56	0.0003
Hexane Plus	0.172	0.0770	9.07	0.0057
Total	100.000	17.2350	986.79	0.6192

* @ 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): 991.3
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 974.1
REAL SPECIFIC GRAVITY: 0.6204

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

DRY BTU @ 14.650: 985.9
DRY BTU @ 14.696: 989.0
DRY BTU @ 14.730: 991.3
DRY BTU @ 15.025: 1011.2

CYLINDER #: 5003
CYLINDER PRESSURE: 101 PSIG
DATE RUN: 8/5/14 2:43 PM
ANALYSIS RUN BY: JENNIFER DEAN



CONOCO PHILLIPS COMPANY
WELL ANALYSIS COMPARISON

Lease: SAN JUAN 30-5 #20M
Stn. No.: 82360018
Mtr. No.: AM02409885NO

CASING
MV/DK

08/12/2014
18300-25625

Smpl Date:	08/04/2014	02/25/2014
Test Date:	08/05/2014	03/19/2014
Run No:	CP140677	CP140188
Nitrogen:	0.225	0.393
CO2:	4.821	5.931
Methane:	92.809	92.022
Ethane:	1.452	1.186
Propane:	0.351	0.239
I-Butane:	0.070	0.091
N-Butane:	0.062	0.043
I-Pentane:	0.024	0.014
N-Pentane:	0.014	0.009
Hexane+:	0.172	0.072
BTU:	991.3	969.9
GPM:	17.2350	17.1570
SPG:	0.6204	0.6264



2030 Afton Place
Farmington, NM 87401
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Analysis No: CP140676
Cust No: 18300-25630

Well/Lease Information

Customer Name: CONOCO PHILLIPS COMPANY
Well Name: SAN JUAN 30-5 #20M
County/State: RIO ARRIBA NM
Location: G08-30N-05W
Field:
Formation: MV/DK
Cust. Stn. No.: 82360018
AM02409885NO

Source: INTERMEDIATE
Pressure: 670 PSIG
Sample Temp: 90 DEG. F
Well Flowing: Y
Date Sampled: 08/04/2014
Sampled By: J. H.
Foreman/Engr.: PRISCILLA SHORTY

Remarks:

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.154	0.0170	0.00	0.0015
CO2	0.001	0.0000	0.00	0.0000
Methane	96.338	16.3640	973.01	0.5336
Ethane	2.180	0.5840	38.58	0.0226
Propane	0.809	0.2230	20.36	0.0123
Iso-Butane	0.158	0.0520	5.14	0.0032
N-Butane	0.184	0.0580	6.00	0.0037
I-Pentane	0.058	0.0210	2.32	0.0014
N-Pentane	0.034	0.0120	1.36	0.0008
Hexane Plus	0.084	0.0380	4.43	0.0028
Total	100.000	17.3690	1051.20	0.5820

* @ 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): 1056.0
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1037.6
REAL SPECIFIC GRAVITY: 0.5831

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

DRY BTU @ 14.650: 1050.3
DRY BTU @ 14.696: 1053.6
DRY BTU @ 14.730: 1056.0
DRY BTU @ 15.025: 1077.1

CYLINDER #: 4030
CYLINDER PRESSURE: 650 PSIG
DATE RUN: 8/5/14 12:00 AM
ANALYSIS RUN BY: JENNIFER DEAN



CONOCO PHILLIPS COMPANY
WELL ANALYSIS COMPARISON

Lease: SAN JUAN 30-5 #20M
Stn. No.: 82360018
Mtr. No.: AM02409885NO

INTERMEDIATE
MV/DK

08/12/2014
18300-25630

Smpl Date:	08/04/2014	02/25/2014
Test Date:	08/05/2014	03/19/2014
Run No:	CP140676	CP140189
Nitrogen:	0.154	0.141
CO2:	0.001	0.003
Methane:	96.338	96.422
Ethane:	2.180	2.082
Propane:	0.809	0.799
I-Butane:	0.158	0.156
N-Butane:	0.184	0.191
I-Pentane:	0.058	0.061
N-Pentane:	0.034	0.037
Hexane+:	0.084	0.108
BTU:	1056.0	1056.5
GPM:	17.3690	17.3680
SPG:	0.5831	0.5833