



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

Analysis No: CP160472
Cust No: 18300-26385

Well/Lease Information

Customer Name: CONOCO PHILLIPS COMPANY
Well Name: SAN JUAN 30-5 #75; BHD
County/State: RIO ARRIBA NM
Location: L21-30N-05W
Field:
Formation: DAKOTA
Cust. Stn. No.: 85801015
API 300392270800S01

Source: BRADENHEAD
Pressure: 10 PSIG
Sample Temp: DEG. F
Well Flowing: Y
Date Sampled: 08/18/2016
Sampled By: SHAD BROWN
Foreman/Engr.: BERKELEY BROWN
OIL CONS. DIV DIST. 3

AUG 31 2016

Remarks: PRESSURED WITH HELIUM TO 30 LBS.
W/O # 9273167

Analysis

Component:	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.212	0.0230	0.00	0.0021
CO2	0.050	0.0090	0.00	0.0008
Methane	94.079	15.9820	950.20	0.5211
Ethane	5.186	1.3900	91.78	0.0538
Propane	0.305	0.0840	7.67	0.0046
Iso-Butane	0.073	0.0240	2.37	0.0015
N-Butane	0.032	0.0100	1.04	0.0006
I-Pentane	0.036	0.0130	1.44	0.0009
N-Pentane	0.000	0.0000	0.00	0.0000
Hexane Plus	0.027	0.0120	1.42	0.0009
Total	100.000	17.5470	1055.93	0.5863

* @ 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): 1060.8

BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1042.3

REAL SPECIFIC GRAVITY: 0.5874

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

DRY BTU @ 14.650: 1055.0

DRY BTU @ 14.696: 1058.4

DRY BTU @ 14.730: 1060.8

DRY BTU @ 15.025: 1082.0

CYLINDER #: 4034

CYLINDER PRESSURE: PSIG

DATE RUN: 8/23/16 12:00 AM

ANALYSIS RUN BY: PATRICIA KING

8



CONOCO PHILLIPS COMPANY
WELL ANALYSIS COMPARISON

Lease: SAN JUAN 30-5 #75; BHD
Stn. No.: 85801015
Mtr. No.: API

BRADENHEAD
DAKOTA

08/23/2016
18300-26385

Smpl Date:	08/18/2016	04/22/2016	07/30/2014
Test Date:	08/23/2016	04/25/2016	08/01/2014
Run No:	CP160472	CP160161	CP140666
Nitrogen:	0.212	0.238	0.194
CO2:	0.050	0.009	0.013
Methane:	94.079	93.600	93.750
Ethane:	5.186	5.592	5.536
Propane:	0.305	0.356	0.332
I-Butane:	0.073	0.080	0.075
N-Butane:	0.032	0.026	0.018
I-Pentane:	0.036	0.026	0.023
N-Pentane:	0.000	0.003	0.000
Hexane+:	0.027	0.070	0.059
BTU:	1060.8	1066.5	1065.2
GPM:	17.5470	17.6010	17.5900
SPG:	0.5874	0.5907	0.5894



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

Analysis No: CP160474
Cust No: 18300-26390

Well/Lease Information

Customer Name: CONOCO PHILLIPS COMPANY
Well Name: SAN JUAN 30-5 #75; CSG
County/State: RIO ARRIBA NM
Location: L21-30N-05W
Field:
Formation: DAKOTA
Cust. Stn. No.: 85801015
API 3003922708

Source: CASING
Pressure: 217 PSIG
Sample Temp: DEG. F
Well Flowing: Y
Date Sampled: 08/18/2016
Sampled By: SHAD BROWN
Foreman/Engr.: BERKELEY BROWN

Remarks:

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	86.961	9.5690	0.00	0.8411
CO2	0.020	0.0030	0.00	0.0003
Methane	12.959	2.1970	130.88	0.0718
Ethane	0.041	0.0110	0.73	0.0004
Propane	0.004	0.0010	0.10	0.0001
Iso-Butane	0.004	0.0010	0.13	0.0001
N-Butane	0.002	0.0010	0.07	0.0000
I-Pentane	0.002	0.0010	0.08	0.0000
N-Pentane	0.000	0.0000	0.00	0.0000
Hexane Plus	0.007	0.0030	0.37	0.0002
Total	100.000	11.7870	132.36	0.9141

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0004

BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 132.7

BTU/CU.FT (WET) CORRECTED FOR (1/Z): 130.4

REAL SPECIFIC GRAVITY: 0.9141

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

DRY BTU @ 14.650: 132.0

DRY BTU @ 14.696: 132.4

DRY BTU @ 14.730: 132.7

DRY BTU @ 15.025: 135.4

CYLINDER #: 7003

CYLINDER PRESSURE: 222 PSIG

DATE RUN: 8/23/16 3:34 PM

ANALYSIS RUN BY: Shyann Elledge



CONOCO PHILLIPS COMPANY
WELL ANALYSIS COMPARISON

Lease: SAN JUAN 30-5 #75; CSG
Stn. No.: 85801015
Mtr. No.: API 3003922708

CASING
DAKOTA

08/23/2016
18300-26390

Smpl Date:	08/18/2016	04/22/2016	07/30/2014
Test Date:	08/23/2016	04/25/2016	08/01/2014
Run No:	CP160474	CP160162	CP140667
Nitrogen:	86.961	0.080	0.105
CO2:	0.020	2.661	2.690
Methane:	12.959	96.833	96.741
Ethane:	0.041	0.335	0.366
Propane:	0.004	0.032	0.033
I-Butane:	0.004	0.023	0.026
N-Butane:	0.002	0.013	0.010
I-Pentane:	0.002	0.009	0.010
N-Pentane:	0.000	0.000	0.003
Hexane+:	0.007	0.014	0.016
BTU:	132.7	991.4	991.3
GPM:	11.7870	17.0300	17.0340
SPG:	0.9141	0.5839	0.5846



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

Analysis No: CP160161
Cust No: 18300-26385

Well/Lease Information

Customer Name: CONOCO PHILLIPS COMPANY
Well Name: SAN JUAN 30-5 #75; BHD
County/State: RIO ARriba NM
Location: L21-30N-05W
Field:
Formation: DAKOTA
Cust. Stn. No.: 85801015
API 3003922708

Source: BRADENHEAD
Pressure: 62 PSIG
Sample Temp: DEG. F
Well Flowing: Y
Date Sampled: 04/22/2016
Sampled By: TYRELL SINCLAIR
Foreman/Engr.: BERKELEY BROWN

Remarks: SAMPLE TAKEN AT 12:00 PM
W/O #9273167

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.238	0.0260	0.00	0.0023
CO2	0.009	0.0020	0.00	0.0001
Methane	93.600	15.9000	945.36	0.5185
Ethane	5.592	1.4990	98.96	0.0581
Propane	0.356	0.0980	8.96	0.0054
Iso-Butane	0.080	0.0260	2.60	0.0016
N-Butane	0.026	0.0080	0.85	0.0005
I-Pentane	0.026	0.0100	1.04	0.0006
N-Pentane	0.003	0.0010	0.12	0.0001
Hexane Plus	0.070	0.0310	3.69	0.0023
Total	100.000	17.6010	1061.58	0.5895

* @ 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): 1066.5
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1047.9
REAL SPECIFIC GRAVITY: 0.5907

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

DRY BTU @ 14.650: 1060.7
DRY BTU @ 14.696: 1064.0
DRY BTU @ 14.730: 1066.5
DRY BTU @ 15.025: 1087.9

CYLINDER #: 4103
CYLINDER PRESSURE: 64 PSIG
DATE RUN: 4/25/16 12:00 AM
ANALYSIS RUN BY: Shyann Elledge



CONOCO PHILLIPS COMPANY
WELL ANALYSIS COMPARISON

Lease: SAN JUAN 30-5 #75; BHD
Stn. No.: 85801015
Mtr. No.: API 3003922708

BRADENHEAD
DAKOTA

04/28/2016
18300-26385

Smpl Date:	04/22/2016	07/30/2014
Test Date:	04/25/2016	08/01/2014
Run No:	CP160161	CP140666
Nitrogen:	0.238	0.194
CO2:	0.009	0.013
Methane:	93.600	93.750
Ethane:	5.592	5.536
Propane:	0.356	0.332
I-Butane:	0.080	0.075
N-Butane:	0.026	0.018
I-Pentane:	0.026	0.023
N-Pentane:	0.003	0.000
Hexane+:	0.070	0.059
BTU:	1066.5	1065.2
GPM:	17.6010	17.5900
SPG:	0.5907	0.5894



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

Analysis No: CP160162
Cust No: 18300-26390

Well/Lease Information

Customer Name: CONOCO PHILLIPS COMPANY
Well Name: SAN JUAN 30-5 #75; CSG
County/State: RIO ARriba NM
Location: L21-30N-05W
Field:
Formation: DAKOTA
Cust. Str. No.: 85801015
API 3003922708

Source: CASING
Pressure: 336 PSIG
Sample Temp: DEG. F
Well Flowing: Y
Date Sampled: 04/22/2016
Sampled By: TYRELL SINCLAIR
Foreman/Engr.: DIANA GUO

Remarks: SAMPLE TAKEN AT 12:30 PM
W/O #9273167

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.080	0.0090	0.00	0.0008
CO2	2.661	0.4550	0.00	0.0404
Methane	96.833	16.4460	978.01	0.5364
Ethane	0.335	0.0900	5.93	0.0035
Propane	0.032	0.0090	0.81	0.0005
Iso-Butane	0.023	0.0080	0.75	0.0005
N-Butane	0.013	0.0040	0.42	0.0003
I-Pentane	0.009	0.0030	0.36	0.0002
N-Pentane	0.000	0.0000	0.00	0.0000
Hexane Plus	0.014	0.0060	0.74	0.0005
Total	100.000	17.0300	987.02	0.5829

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0021
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 991.4
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 974.1
REAL SPECIFIC GRAVITY: 0.5839

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

DRY BTU @ 14.650: 986.0
DRY BTU @ 14.696: 989.1
DRY BTU @ 14.730: 991.4
DRY BTU @ 15.025: 1011.3

CYLINDER #: 4159
CYLINDER PRESSURE: 154 PSIG
DATE RUN: 4/25/16 12:00 AM
ANALYSIS RUN BY: DAWN BLASSINGAME



CONOCO PHILLIPS COMPANY
WELL ANALYSIS COMPARISON

Lease: SAN JUAN 30-5 #75; CSG
Stn. No.: 85801015
Mtr. No.: API 3003922708

CASING
DAKOTA

04/28/2016
18300-26390

Smpl Date:	04/22/2016	07/30/2014
Test Date:	04/25/2016	08/01/2014
Run No:	CP160162	CP140667
Nitrogen:	0.080	0.105
CO2:	2.661	2.690
Methane:	96.833	96.741
Ethane:	0.335	0.366
Propane:	0.032	0.033
I-Butane:	0.023	0.026
N-Butane:	0.013	0.010
I-Pentane:	0.009	0.010
N-Pentane:	0.000	0.003
Hexane+:	0.014	0.016
BTU:	991.4	991.3
GPM:	17.0300	17.0340
SPG:	0.5839	0.5846