



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

Analysis No: BU170440
Cust No: 52100-21065

Well/Lease Information

Customer Name: CONOCO PHILLIPS COMPANY
Well Name: SAN JUAN 32-9 #38
County/State:
Location:
Field:
Formation: MESA VERDE
Cust. Stn. No.: 300451119200SO1

Source: BRADENHEAD
Pressure: 86 PSIG
Sample Temp: 96 DEG. F
Well Flowing: Y
Date Sampled: 06/29/2017
Sampled By: KALAN D
Foreman/Engr.:

Remarks: W/O # 9274115

OIL CONS. DIV DIST. 3
JUL 25 2017

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.196	0.1320	0.00	0.0116
CO2	0.029	0.0050	0.00	0.0004
Methane	94.032	15.9740	949.72	0.5208
Ethane	3.720	0.9970	65.83	0.0386
Propane	0.444	0.1230	11.17	0.0068
Iso-Butane	0.148	0.0490	4.82	0.0030
N-Butane	0.120	0.0380	3.92	0.0024
I-Pentane	0.089	0.0330	3.55	0.0022
N-Pentane	0.045	0.0160	1.82	0.0011
Hexane Plus	0.177	0.0790	9.31	0.0058
Total	100.000	17.4460	1050.13	0.5928

* @ 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): 1055.0
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1036.6
REAL SPECIFIC GRAVITY: 0.5939

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

DRY BTU @ 14.650: 1049.3
DRY BTU @ 14.696: 1052.6
DRY BTU @ 14.730: 1055.0
DRY BTU @ 15.025: 1076.1

CYLINDER #: 040
CYLINDER PRESSURE: 36 PSIG
DATE RUN: 7/13/17 11:10 AM
ANALYSIS RUN BY: RICHARD WILSON

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CONOCO PHILLIPS COMPANY
WELL ANALYSIS COMPARISON

Lease: SAN JUAN 32-9 #38
Stn. No.:
Mtr. No.: 300451119200SO1

BRADENHEAD
MESA VERDE

07/19/2017
52100-21065

Smpl Date:	06/29/2017	10/09/2008
Test Date:	07/13/2017	10/15/2008
Run No:	BU170440	BU281287
Nitrogen:	1.196	2.157
CO2:	0.029	0.013
Methane:	94.032	92.462
Ethane:	3.720	3.976
Propane:	0.444	0.568
I-Butane:	0.148	0.195
N-Butane:	0.120	0.151
I-Pentane:	0.089	0.127
N-Pentane:	0.045	0.062
Hexane+:	0.177	0.000
BTU:	1055.0	1057.2
GPM:	17.4460	17.3460
SPG:	0.5939	0.6055



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

Analysis No: BU170441
Cust No: 52100-21070

Well/Lease Information

Customer Name: CONOCO PHILLIPS COMPANY
Well Name: SAN JUAN 32-9 #38
County/State:
Location:
Field:
Formation: MESA VERDE
Cust. Stn. No.:
300451119200SO1

Source: CASING
Pressure: 86 PSIG
Sample Temp: 96 DEG. F
Well Flowing: Y
Date Sampled: 06/29/2017
Sampled By: KALAN D
Foreman/Engr.:

Remarks: W/O # 9274115

OIL CONS. DIV DIST. 3
JUL 25 2017

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.111	0.0120	0.00	0.0011
CO2	1.667	0.2850	0.00	0.0253
Methane	87.904	14.9420	887.83	0.4869
Ethane	6.483	1.7380	114.73	0.0673
Propane	1.982	0.5470	49.87	0.0302
Iso-Butane	0.391	0.1280	12.71	0.0078
N-Butane	0.442	0.1400	14.42	0.0089
I-Pentane	0.203	0.0740	8.12	0.0051
N-Pentane	0.126	0.0460	5.05	0.0031
Hexane Plus	0.691	0.3090	36.42	0.0229
Total	100.000	18.2210	1129.16	0.6586

* @ 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): 1135.1
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1115.3
REAL SPECIFIC GRAVITY: 0.6602

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

DRY BTU @ 14.650: 1128.9
DRY BTU @ 14.696: 1132.5
DRY BTU @ 14.730: 1135.1
DRY BTU @ 15.025: 1157.8

CYLINDER #: 105
CYLINDER PRESSURE: 99 PSIG
DATE RUN: 7/13/17 11:14 AM
ANALYSIS RUN BY: RICHARD WILSON



CONOCO PHILLIPS COMPANY
WELL ANALYSIS COMPARISON

Lease: SAN JUAN 32-9 #38
Stn. No.:
Mtr. No.: 300451119200SO1

CASING
MESA VERDE

07/19/2017
52100-21070

Smpl Date:	06/29/2017	10/09/2008
Test Date:	07/13/2017	10/15/2008
Run No:	BU170441	BU281288
Nitrogen:	0.111	0.114
CO2:	1.667	1.629
Methane:	87.904	88.277
Ethane:	6.483	6.337
Propane:	1.982	1.973
I-Butane:	0.391	0.395
N-Butane:	0.442	0.461
I-Pentane:	0.203	0.211
N-Pentane:	0.126	0.132
Hexane+:	0.691	0.000
BTU:	1135.1	1124.5
GPM:	18.2210	17.9440
SPG:	0.6602	0.6530



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

Analysis No: BU170442
Cust No: 52100-21075

Well/Lease Information

Customer Name: CONOCO PHILLIPS COMPANY
Well Name: SAN JUAN 32-9 #38
County/State:
Location:
Field:
Formation: MESA VERDE
Cust. Stn. No.:
300451119200SO1

Source: INTER. CASING
Pressure: 86 PSIG
Sample Temp: 96 DEG. F
Well Flowing: Y
Date Sampled: 06/29/2017
Sampled By: KALAN D
Foreman/Engr.:

OIL CONS. DIV DIST. 3

JUL 25 2017

Remarks: W/O # 9274155

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.127	0.1240	0.00	0.0109
CO2	0.006	0.0010	0.00	0.0001
Methane	94.123	15.9890	950.64	0.5213
Ethane	3.723	0.9980	65.89	0.0387
Propane	0.445	0.1230	11.20	0.0068
Iso-Butane	0.142	0.0470	4.62	0.0028
N-Butane	0.105	0.0330	3.43	0.0021
I-Pentane	0.071	0.0260	2.84	0.0018
N-Pentane	0.035	0.0130	1.40	0.0009
Hexane Plus	0.223	0.1000	11.75	0.0074
Total	100.000	17.4540	1051.77	0.5927

* @ 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): 1056.6
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1038.2
REAL SPECIFIC GRAVITY: 0.5939

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

DRY BTU @ 14.650: 1050.9
DRY BTU @ 14.696: 1054.2
DRY BTU @ 14.730: 1056.6
DRY BTU @ 15.025: 1077.8

CYLINDER #: 047
CYLINDER PRESSURE: 38 PSIG
DATE RUN: 7/13/17 11:18 AM
ANALYSIS RUN BY: PATRICIA KING



CONOCO PHILLIPS COMPANY
WELL ANALYSIS COMPARISON

Lease: SAN JUAN 32-9 #38
Stn. No.:
Mtr. No.: 300451119200SO1

INTER. CASING
MESA VERDE

07/19/2017
52100-21075

Smpl Date:	06/29/2017	10/09/2008
Test Date:	07/13/2017	10/15/2008
Run No:	BU170442	BU281289
Nitrogen:	1.127	1.867
CO2:	0.006	0.026
Methane:	94.123	92.428
Ethane:	3.723	4.074
Propane:	0.445	0.620
I-Butane:	0.142	0.211
N-Butane:	0.105	0.166
I-Pentane:	0.071	0.205
N-Pentane:	0.035	0.071
Hexane+:	0.223	0.000
BTU:	1056.6	1066.6
GPM:	17.4540	17.3910
SPG:	0.5939	0.6085