



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

Analysis No: CP140469
Cust No: 18300-26105

30-045-10825

Well/Lease Information

Customer Name: CONOCO PHILLIPS COMPANY
Well Name: LUCERNE #A1 CSG
County/State: SAN JUAN
Location:
Field:
Formation: MESA VERDE
Cust. Stn. No.: AM02345551NO

Source: CASING
Pressure: 113 PSIG
Sample Temp: DEG. F
Well Flowing: Y
Date Sampled: 06/05/2014
Sampled By:
Foreman/Engr.:

OIL CONS. DIV DIST. 3
JUN 24 2014

Remarks:

Analysis

Component:	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	2.120	0.2340	0.00	0.0205
CO2	0.008	0.0010	0.00	0.0001
Methane	88.503	15.0420	893.88	0.4902
Ethane	3.220	0.8630	56.98	0.0334
Propane	3.249	0.8970	81.75	0.0495
Iso-Butane	1.128	0.3700	36.68	0.0226
N-Butane	0.734	0.2320	23.95	0.0147
I-Pentane	0.403	0.1480	16.12	0.0100
N-Pentane	0.170	0.0620	6.81	0.0042
Hexane Plus	0.465	0.2080	24.51	0.0154
Total	100.000	18.0570	1140.69	0.6608

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0028
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1146.5
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1126.6
REAL SPECIFIC GRAVITY: 0.6624

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

DRY BTU @ 14.650: 1140.3
DRY BTU @ 14.696: 1143.9
DRY BTU @ 14.730: 1146.5
DRY BTU @ 15.025: 1169.5

CYLINDER #: 6096
CYLINDER PRESSURE: 100 PSIG
DATE RUN: 6/16/14 2:16 PM
ANALYSIS RUN BY: TIMBER EVERETT



CONOCO PHILLIPS COMPANY
WELL ANALYSIS COMPARISON

Lease: LUCERNE #A1 CSG
Stn. No.: AM02345551NO
Mtr. No.:

CASING
MESA VERDE

06/18/2014
18300-26105

Smpl Date: 06/05/2014
Test Date: 06/16/2014
Run No: CP140469
Nitrogen: 2.120
CO2: 0.008
Methane: 88.503
Ethane: 3.220
Propane: 3.249
I-Butane: 1.128
N-Butane: 0.734
I-Pentane: 0.403
N-Pentane: 0.170
Hexane+: 0.465
BTU: 1146.5
GPM: 18.0570
SPG: 0.6624



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

Analysis No: CP140470
Cust No: 18300-26070

Well/Lease Information

Customer Name: CONOCO PHILLIPS COMPANY
Well Name: LUCERNE #A1 INTRM
County/State: SAN JUAN
Location:
Field:
Formation: MESA VERDE
Cust. Stn. No.: AM02345551NO

Source: INTERMEDIATE
Pressure: 219 PSIG
Sample Temp: DEG. F
Well Flowing: Y
Date Sampled: 06/05/2014
Sampled By:
Foreman/Engr.:

OIL CONS. DIV DIST. 3

JUN 24 2014

Remarks:

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	2.013	0.2220	0.00	0.0195
CO2	0.006	0.0010	0.00	0.0001
Methane	87.694	14.9080	885.71	0.4857
Ethane	3.279	0.8790	58.03	0.0340
Propane	3.480	0.9610	87.56	0.0530
Iso-Butane	1.323	0.4340	43.02	0.0266
N-Butane	0.915	0.2890	29.85	0.0184
I-Pentane	0.552	0.2020	22.09	0.0138
N-Pentane	0.233	0.0850	9.34	0.0058
Hexane Plus	0.505	0.2260	26.62	0.0167
Total	100.000	18.2070	1162.22	0.6735

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.003
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1168.4
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1148.1
REAL SPECIFIC GRAVITY: 0.6753

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

DRY BTU @ 14.650: 1162.1
DRY BTU @ 14.696: 1165.7
DRY BTU @ 14.730: 1168.4
DRY BTU @ 15.025: 1191.8

CYLINDER #: 4179A
CYLINDER PRESSURE: 204 PSIG
DATE RUN: 6/16/14 12:56 PM
ANALYSIS RUN BY: LOGAN CHENEY



CONOCO PHILLIPS COMPANY
WELL ANALYSIS COMPARISON

Lease: LUCERNE #A1 INTRM
Stn. No.: AM02345551NO
Mtr. No.:

INTERMEDIATE
MESA VERDE

06/18/2014
18300-26070

Smpl Date: 06/05/2014
Test Date: 06/16/2014
Run No: CP140470

Nitrogen: 2.013
CO2: 0.006
Methane: 87.694
Ethane: 3.279
Propane: 3.480
I-Butane: 1.323
N-Butane: 0.915
I-Pentane: 0.552
N-Pentane: 0.233
Hexane+: 0.505

BTU: 1168.4
GPM: 18.2070
SPG: 0.6753