



30-045-31932

2030 Afton Place
Farmington, NM 87401
(505) 325-6622Analysis No: BU130625
Cust No: 52100-16970**Well/Lease Information**Customer Name: CONOCO PHILLIPS COMPANY
Well Name: RANDLEMAN 1B CSG
County/State: SAN JUAN NM
Location:
Field:
Formation: MV/DK
Cust. Stn. No.: 9275962Source: CASING
Pressure: 101 PSIG
Sample Temp: DEG. F
Well Flowing: N
Date Sampled: 07/27/2013
Sampled By: BEN MARTINEZ
Foreman/Engr.:

OIL CONS. DIV DIST. 3

MAY 14 2014

Remarks: ONLY HAD 7# OF PRESSURE WHEN OPENED;PRESSURED WITH HELIUM TO 30 LBS :SAMPLE CONTAINED 1 C. CONDENSATE.

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.532	0.1690	0.00	0.0148
CO2	0.085	0.0150	0.00	0.0013
Methane	82.993	14.1200	838.23	0.4597
Ethane	6.941	1.8630	122.83	0.0721
Propane	3.735	1.0330	93.98	0.0569
Iso-Butane	0.649	0.2130	21.10	0.0130
N-Butane	0.895	0.2830	29.20	0.0180
I-Pentane	0.409	0.1500	16.36	0.0102
N-Pentane	0.339	0.1230	13.59	0.0084
Hexane Plus	2.422	1.0840	127.67	0.0802
Total	100.000	19.0530	1262.96	0.7345

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0038
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1270.7
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1248.6
REAL SPECIFIC GRAVITY: 0.737GPM, BTU, and SPG calculations as shown
above are based on current GPA factors.DRY BTU @ 14.650: 1263.8
DRY BTU @ 14.696: 1267.8
DRY BTU @ 14.730: 1270.7
DRY BTU @ 15.025: 1296.1CYLINDER #: 4144
CYLINDER PRESSURE: PSIG
DATE RUN: 7/30/13 9:13 AM
ANALYSIS RUN BY: DAWN BLASSINGAME



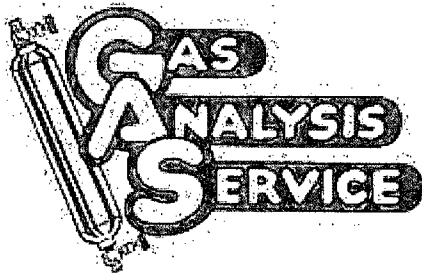
CONOCO PHILLIPS COMPANY
WELL ANALYSIS COMPARISON

Lease: RANDLEMAN 1B CSG
Stn. No.:
Mtr. No.: 9275962

CASING
MV/DK

07/30/2013
52100-16970

Smpl Date:	07/27/2013	06/17/2004
Test Date:	07/30/2013	06/18/2004
Run No:	BU130625	BU240044
Nitrogen:	1.532	0.209
CO2:	0.085	0.729
Methane:	82.993	81.324
Ethane:	6.941	10.326
Propane:	3.735	4.831
I-Butane:	0.649	0.667
N-Butane:	0.895	1.183
I-Pentane:	0.409	0.307
N-Pentane:	0.339	0.237
Hexane+:	2.422	0.187
BTU:	1270.7	1224.4
GPM:	19.0530	18.9590
SPG:	0.7370	0.7035



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

Analysis No: BU130626
Cust No: 52100-16975

Well/Lease Information

Customer Name: CONOCO PHILLIPS COMPANY
Well Name: RANDLEMAN 1B
County/State: SAN JUAN NM
Location:
Field:
Formation: MV/DK
Cust. Stn. No.: 9275962

Source: TUBING
Pressure: 47 PSIG
Sample Temp: DEG. F
Well Flowing: N
Date Sampled: 07/27/2013
Sampled By: BEN MARTINEZ
Foreman/Engr: OIL CONS. DIV DIST. 3

MAY 14 2014

Remarks: SAMPLE ONLY HAD 6# PRESSURE WHEN OPENED, NO LEAKS; PRESSURED WITH HELIUM TO 30 LBS

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	4.528	0.5000	0.00	0.0438
CO2	0.071	0.0120	0.00	0.0011
Methane	82.284	13.9880	831.07	0.4558
Ethane	6.672	1.7890	118.07	0.0693
Propane	3.556	0.9820	89.47	0.0541
Iso-Butane	0.612	0.2010	19.90	0.0123
N-Butane	0.840	0.2660	27.40	0.0169
I-Pentane	0.344	0.1260	13.76	0.0086
N-Pentane	0.275	0.1000	11.02	0.0069
Hexane Plus	0.818	0.3660	43.12	0.0271
Total	100.000	18.3300	1153.82	0.6957

* @ 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): 1160.0
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1139.8
REAL SPECIFIC GRAVITY: 0.6975

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

DRY BTU @ 14.650: 1153.7
DRY BTU @ 14.696: 1157.3
DRY BTU @ 14.730: 1160.0
DRY BTU @ 15.025: 1183.2

CYLINDER #: 4210
CYLINDER PRESSURE: PSIG
DATE RUN: 7/30/13 9:59 AM
ANALYSIS RUN BY: DAWN BLASSINGAME



CONOCO PHILLIPS COMPANY
WELL ANALYSIS COMPARISON

Lease: RANDLEMAN 1B
Stn. No.:
Mtr. No.: 9275962

TUBING
MV/DK

07/30/2013
52100-16975

Smpl Date:	07/27/2013	06/17/2004
Test Date:	07/30/2013	06/18/2004
Run No:	BU130626	BU240045
Nitrogen:	4.528	0.686
CO2:	0.071	2.042
Methane:	82.284	92.325
Ethane:	6.672	3.383
Propane:	3.556	0.727
I-Butane:	0.612	0.210
N-Butane:	0.840	0.163
I-Pentane:	0.344	0.106
N-Pentane:	0.275	0.052
Hexane+:	0.818	0.306
BTU:	1160.0	1049.9
GPM:	18.3300	17.5330
SPG:	0.6975	0.6181



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

Analysis No: BU130627
Cust No: 52100-22105

Well/Lease Information

Customer Name: CONOCO PHILLIPS COMPANY
Well Name: RANDLEMAN 1B INTRM
County/State: SAN JUAN
Location:
Field:
Formation: MV/DK
Cust. Stn. No.: 9275962

Source: INTERMEDIATE
Pressure: 414 PSIG
Sample Temp: DEG. F
Well Flowing: N
Date Sampled: 07/27/2013
Sampled By: BEN MARTINEZ
Foreman/Engr.:

OIL CONS. DIV DIST. 3

Remarks:

MAY 14 2014

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.305	0.0340	0.00	0.0029
CO2	0.002	0.0000	0.00	0.0000
Methane	85.839	14.5920	866.97	0.4755
Ethane	8.312	2.2290	147.10	0.0863
Propane	3.859	1.0660	97.10	0.0588
Iso-Butane	0.558	0.1830	18.15	0.0112
N-Butane	0.673	0.2130	21.96	0.0135
I-Pentane	0.205	0.0750	8.20	0.0051
N-Pentane	0.129	0.0470	5.17	0.0032
Hexane Plus	0.118	0.0530	6.22	0.0039
Total	100.000	18.4920	1170.86	0.6604

* @ 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): 1177.1
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1156.6
REAL SPECIFIC GRAVITY: 0.6621

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

DRY BTU @ 14.650: 1170.7
DRY BTU @ 14.696: 1174.4
DRY BTU @ 14.730: 1177.1
DRY BTU @ 15.025: 1200.7

CYLINDER #: 6080
CYLINDER PRESSURE: 398 PSIG
DATE RUN: 7/30/13 10:04 AM
ANALYSIS RUN BY: DAWN BLASSINGAME



CONOCO PHILLIPS COMPANY
WELL ANALYSIS COMPARISON

Lease: RANDLEMAN 1B INTRM
Stn. No.:
Mtr. No.: 9275962

INTERMEDIATE
MV/DK

07/30/2013
52100-22105

Smpl Date: 07/27/2013
Test Date: 07/30/2013
Run No: BU130627

Nitrogen: 0.305
CO2: 0.002
Methane: 85.839
Ethane: 8.312
Propane: 3.859
I-Butane: 0.558
N-Butane: 0.673
I-Pentane: 0.205
N-Pentane: 0.129
Hexane+: 0.118

BTU: 1177.1
GPM: 18.4920
SPG: 0.6621