



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

Analysis No: BP140004
 Cust No: 12305-11085

30-045-24291

Well/Lease Information

Customer Name: BP AMERICA/FARMINGTON
 Well Name: GCU 145E
 County/State:
 Location:
 Field:
 Formation: DAKOTA
 Cust. Stn. No.:

Source: BRADENHEAD
 Pressure: 150 PSIG
 Sample Temp: DEG. F
 Well Flowing:
 Date Sampled: 05/28/2014
 Sampled By: R. LEDESME
 Foreman/Engr.: NATE DEAL

OIL CONS. DIV DIST. 3

JUL 29 2014

Remarks: TIME 11:00

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.506	0.0560	0.00	0.0049
CO2	0.436	0.0750	0.00	0.0066
Methane	80.480	13.6890	812.85	0.4458
Ethane	9.363	2.5120	165.70	0.0972
Propane	5.414	1.4970	136.22	0.0824
Iso-Butane	0.808	0.2650	26.28	0.0162
N-Butane	1.652	0.5230	53.89	0.0332
I-Pentane	0.495	0.1820	19.80	0.0123
N-Pentane	0.408	0.1480	16.36	0.0102
Hexane Plus	0.438	0.1960	23.09	0.0145
Total	100.000	19.1430	1254.18	0.7233

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0036
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1261.6
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1239.6
 REAL SPECIFIC GRAVITY: 0.7256

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

DRY BTU @ 14.650: 1254.7
 DRY BTU @ 14.696: 1258.7
 DRY BTU @ 14.730: 1261.6
 DRY BTU @ 15.025: 1286.9

CYLINDER #: 1330
 CYLINDER PRESSURE: PSIG
 DATE RUN: 6/4/14 11:33 AM
 ANALYSIS RUN BY: TIMBER EVERETT



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

Analysis No: BP140003
 Cust No: 12305-10875

30-045-24291

Well/Lease Information

Customer Name: BP AMERICA/FARMINGTON
 Well Name: GCU 145E
 County/State:
 Location:
 Field:
 Formation: DAKOTA
 Cust. Stn. No.: 93462

OIL CONS. DIV DIST. 3

Source: CASING
 Pressure: 165 PSIG
 Sample Temp: DEG. F
 Well Flowing:
 Date Sampled: 05/28/2014
 Sampled By: R. LEDESMA
 Foreman/Engr.: NATE DEAL

JUL 29 2014

Remarks: TIME 11:00

Analysis

Component:	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.518	0.0570	0.00	0.0050
CO2	0.445	0.0760	0.00	0.0068
Methane	80.130	13.6310	809.31	0.4438
Ethane	9.201	2.4690	162.83	0.0955
Propane	5.394	1.4910	135.72	0.0821
Iso-Butane	0.838	0.2750	27.25	0.0168
N-Butane	1.764	0.5580	57.55	0.0354
I-Pentane	0.588	0.2160	23.53	0.0146
N-Pentane	0.509	0.1850	20.40	0.0127
Hexane Plus	0.613	0.2740	32.31	0.0203
Total	100.000	19.2320	1268.90	0.7331

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0037
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1276.6
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1254.4
 REAL SPECIFIC GRAVITY: 0.7355

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

DRY BTU @ 14.650: 1269.7
 DRY BTU @ 14.696: 1273.7
 DRY BTU @ 14.730: 1276.6
 DRY BTU @ 15.025: 1302.2

CYLINDER #: 1429
 CYLINDER PRESSURE: 174 PSIG
 DATE RUN: 6/4/14 11:24 AM
 ANALYSIS RUN BY: TIMBER EVERETT



BP AMERICA/FARMINGTON
WELL ANALYSIS COMPARISON

Lease: GCU 145E
Stn. No.: 93462
Mtr. No.:

CASING
DAKOTA

06/04/2014
12305-10875

Smpl Date:	05/28/2014	09/23/2013
Test Date:	06/04/2014	09/27/2013
Run No:	BP140003	BP130063
Nitrogen:	0.518	0.395
CO2:	0.445	0.985
Methane:	80.130	79.322
Ethane:	9.201	9.748
Propane:	5.394	5.351
I-Butane:	0.838	0.858
N-Butane:	1.764	1.739
I-Pentane:	0.588	0.572
N-Pentane:	0.509	0.488
Hexane+:	0.613	0.542
BTU:	1276.6	1271.6
GPM:	19.2320	19.2650
SPG:	0.7355	0.7397