



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

Analysis No: BP140013
Cust No: 12305-10765

30-045-24172

Well/Lease Information

Customer Name: BP AMERICA/FARMINGTON
Well Name: GCU 187E
County/State:
Location:
Field:
Formation: DAKOTA
Cust. Stn. No.: 93680

Source: BRADENHEAD
Pressure: 80 PSIG
Sample Temp: DEG. F
Well Flowing:
Date Sampled: 05/29/2014
Sampled By: R. LEDESMA
Foreman/Engr.: NATE DEAL

OIL CONS. DIV DIST. 3

JUL 29 2014

Remarks: TIME 9:00

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.816	0.0900	0.00	0.0079
CO2	0.008	0.0010	0.00	0.0001
Methane	93.991	15.9670	949.31	0.5206
Ethane	4.003	1.0730	70.84	0.0416
Propane	0.789	0.2180	19.85	0.0120
Iso-Butane	0.195	0.0640	6.34	0.0039
N-Butane	0.109	0.0340	3.56	0.0022
I-Pentane	0.032	0.0120	1.28	0.0008
N-Pentane	0.013	0.0050	0.52	0.0003
Hexane Plus	0.044	0.0200	2.32	0.0015
Total	100.000	17.4840	1054.02	0.5909

* @ 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): 1058.9
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1040.5
REAL SPECIFIC GRAVITY: 0.592

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

DRY BTU @ 14.650: 1053.1
DRY BTU @ 14.696: 1056.5
DRY BTU @ 14.730: 1058.9
DRY BTU @ 15.025: 1080.1

CYLINDER #: 1176
CYLINDER PRESSURE: 90 PSIG
DATE RUN: 6/5/14 2:26 PM
ANALYSIS RUN BY: LOGAN CHENEY



BP AMERICA/FARMINGTON
WELL ANALYSIS COMPARISON

Lease: GCU 187E
Stn. No.: 93680
Mtr. No.:

BRADENHEAD
DAKOTA

06/05/2014
12305-10765

Smpl Date:	05/29/2014	07/30/2013
Test Date:	06/05/2014	08/06/2013
Run No:	BP140013	BP130040
Nitrogen:	0.816	0.808
CO2:	0.008	0.019
Methane:	93.991	94.043
Ethane:	4.003	3.997
Propane:	0.789	0.771
I-Butane:	0.195	0.191
N-Butane:	0.109	0.096
I-Pentane:	0.032	0.030
N-Pentane:	0.013	0.011
Hexane+:	0.044	0.034
BTU:	1058.9	1057.5
GPM:	17.4840	17.4750
SPG:	0.5920	0.5912



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

30-045-24172

Analysis No: BP140014
Cust No: 12305-11095

Well/Lease Information

Customer Name: BP AMERICA/FARMINGTON
Well Name: GCU 187E CSG
County/State:
Location:
Field:
Formation: DAKOTA
Cust. Str. No.:

Source: CASING
Pressure: 180 PSIG
Sample Temp: DEG. F
Well Flowing:
Date Sampled: 05/29/2014
Sampled By: R. LEDESMA
Foreman/Engr.: NATE DEAL

OIL CONS. DIV DIST. 3

JUL 29 2014

Remarks: TIME 9:00

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.503	0.0560	0.00	0.0049
CO2	1.057	0.1810	0.00	0.0161
Methane	61.042	10.4030	616.52	0.3381
Ethane	17.847	4.7980	315.84	0.1853
Propane	13.364	3.7010	336.25	0.2035
Iso-Butane	1.558	0.5130	50.66	0.0313
N-Butane	3.520	1.1160	114.83	0.0706
I-Pentane	0.556	0.2040	22.25	0.0139
N-Pentane	0.444	0.1620	17.80	0.0111
Hexane Plus	0.109	0.0490	5.75	0.0036
Total	100.000	21.1830	1479.90	0.8782

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0055
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1491.4
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1465.4
REAL SPECIFIC GRAVITY: 0.8826

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

DRY BTU @ 14.650: 1483.3
DRY BTU @ 14.696: 1488.0
DRY BTU @ 14.730: 1491.4
DRY BTU @ 15.025: 1521.3

CYLINDER #: 1423
CYLINDER PRESSURE: 214 PSIG
DATE RUN: 6/5/14 2:27 PM
ANALYSIS RUN BY: LOGAN CHENEY