



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

Analysis No: BP140008
Cust No: 12305-10425

30-045-07910

Well/Lease Information

Customer Name: BP AMERICA/FARMINGTON
Well Name: GCU #173
County/State: SAN JUAN NM
Location: A29-29N-12W
Field:
Formation: FRUITLAND COAL
Cust. Stn. No.:

Source: BRADENHEAD
Pressure: 60 PSIG
Sample Temp: DEG. F
Well Flowing:
Date Sampled: 05/28/2014
Sampled By: R. LEDESMA
Foreman/Engr.: NATE DEAL

OIL CONS. DIV DIST. 3

JUL 29 2014

Remarks: TIME 11:45

Analysis

Component:	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.380	0.0420	0.00	0.0037
CO2	0.014	0.0020	0.00	0.0002
Methane	89.105	15.1430	899.96	0.4936
Ethane	6.292	1.6870	111.35	0.0653
Propane	2.651	0.7320	66.70	0.0404
Iso-Butane	0.518	0.1700	16.85	0.0104
N-Butane	0.597	0.1890	19.48	0.0120
I-Pentane	0.176	0.0650	7.04	0.0044
N-Pentane	0.108	0.0390	4.33	0.0027
Hexane Plus	0.159	0.0710	8.38	0.0053
Total	100.000	18.1400	1134.09	0.6378

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0027

BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1139.8

BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1120.0

REAL SPECIFIC GRAVITY: 0.6393

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

DRY BTU @ 14.650: 1133.6

DRY BTU @ 14.696: 1137.2

DRY BTU @ 14.730: 1139.8

DRY BTU @ 15.025: 1162.6

CYLINDER #: 1399

CYLINDER PRESSURE: 50 PSIG

DATE RUN: 6/4/14 11:48 AM

ANALYSIS RUN BY: DAWN BLASSINGAME



BP AMERICA/FARMINGTON
WELL ANALYSIS COMPARISON

Lease: GCU #173
Stn. No.:
Mtr. No.:

BRADENHEAD
FRUITLAND COAL

06/04/2014
12305-10425

Smpl Date:	05/28/2014	11/22/2008
Test Date:	06/04/2014	11/24/2008
Run No:	BP140008	BP280016
Nitrogen:	0.380	0.365
CO2:	0.014	0.015
Methane:	89.105	89.147
Ethane:	6.292	6.193
Propane:	2.651	2.564
I-Butane:	0.518	0.505
N-Butane:	0.597	0.609
I-Pentane:	0.176	0.209
N-Pentane:	0.108	0.141
Hexane+:	0.159	0.252
BTU:	1139.8	1143.9
GPM:	18.1400	18.1670
SPG:	0.6393	0.6417



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

30-045-07910

Analysis No: BP140009
Cust No: 12305-11070

Well/Lease Information

Customer Name: BP AMERICA/FARMINGTON
Well Name: GCU 173
County/State:
Location:
Field:
Formation: PICTURED CLIFF
Cust. Stn. No.:

Source: CASING
Pressure: 4 PSIG
Sample Temp: DEG. F
Well Flowing:
Date Sampled: 05/28/2014
Sampled By: R. LEDESMA
Foreman/Engr.: NATE DEAL

OIL CONS. DIV DIST. 3

JUL 29 2014

Remarks: TIME 11:45
PRESSURED WITH HELIUM TO 30 LBS

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.140	0.0150	0.00	0.0014
CO2	1.103	0.1890	0.00	0.0168
Methane	96.496	16.3910	974.61	0.5345
Ethane	1.296	0.3470	22.93	0.0135
Propane	0.443	0.1220	11.15	0.0067
Iso-Butane	0.086	0.0280	2.80	0.0017
N-Butane	0.133	0.0420	4.34	0.0027
I-Pentane	0.060	0.0220	2.40	0.0015
N-Pentane	0.042	0.0150	1.68	0.0010
Hexane Plus	0.201	0.0900	10.59	0.0067
Total	100.000	17.2610	1030.51	0.5864

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0022
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1035.2
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1017.2
REAL SPECIFIC GRAVITY: 0.5875

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

DRY BTU @ 14.650: 1029.6
DRY BTU @ 14.696: 1032.8
DRY BTU @ 14.730: 1035.2
DRY BTU @ 15.025: 1055.9

CYLINDER #: 1479
CYLINDER PRESSURE: PSIG
DATE RUN: 6/4/14 11:51 AM
ANALYSIS RUN BY: DAWN BLASSINGAME



BP AMERICA/FARMINGTON
WELL ANALYSIS COMPARISON

Lease: GCU 173
Stn. No.:
Mtr. No.:

CASING
PICTURED CLIFF

06/04/2014
12305-11070

Smpl Date:	05/28/2014	11/21/2013
Test Date:	06/04/2014	12/04/2013
Run No:	BP140009	BP130102
Nitrogen:	0.140	0.140
CO2:	1.103	1.180
Methane:	96.496	96.636
Ethane:	1.296	1.162
Propane:	0.443	0.366
I-Butane:	0.086	0.075
N-Butane:	0.133	0.113
I-Pentane:	0.060	0.048
N-Pentane:	0.042	0.037
Hexane+:	0.201	0.243
BTU:	1035.2	1032.8
GPM:	17.2610	17.2450
SPG:	0.5875	0.5872