



NO WATER AVAILABLE FROM
CASING TO SAMPLE

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

Analysis No: BP140022
Cust No: 12305-11080

30-045-20585

Well/Lease Information

Customer Name: BP AMERICA/FARMINGTON
Well Name: IRVIN COM 1
County/State:
Location:
Field:
Formation: MV
Cust. Stn. No.:

Source: CASING
Pressure: 300 PSIG
Sample Temp: DEG. F
Well Flowing:
Date Sampled: 05/30/2014
Sampled By: R. LEDESMA
Foreman/Engr.: NATE DEAL

OIL CONS. DIV DIST. 3
JUL 29 2014

Remarks: SAMPLE TAKEN AT 7:30

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.449	0.0500	0.00	0.0043
CO2	1.086	0.1860	0.00	0.0165
Methane	81.441	13.8500	822.55	0.4511
Ethane	9.805	2.6300	173.52	0.1018
Propane	4.268	1.1800	107.39	0.0650
Iso-Butane	0.613	0.2010	19.93	0.0123
N-Butane	1.217	0.3850	39.70	0.0244
I-Pentane	0.384	0.1410	15.36	0.0096
N-Pentane	0.332	0.1210	13.31	0.0083
Hexane Plus	0.405	0.1810	21.35	0.0134
Total	100.000	18.9250	1213.12	0.7067

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0034
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1220.1
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1198.9
REAL SPECIFIC GRAVITY: 0.7088

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

DRY BTU @ 14.650: 1213.5
DRY BTU @ 14.696: 1217.3
DRY BTU @ 14.730: 1220.1
DRY BTU @ 15.025: 1244.5

CYLINDER #: 1377
CYLINDER PRESSURE: 312 PSIG
DATE RUN: 6/9/14 2:01 PM
ANALYSIS RUN BY: LOGAN CHENEY



BP AMERICA/FARMINGTON
WELL ANALYSIS COMPARISON

Lease: IRVIN COM 1
Stn. No.:
Mtr. No.:

CASING
MV

06/11/2014
12305-11080

Smpl Date:	05/30/2014	12/19/2013
Test Date:	06/09/2014	01/15/2014
Run No:	BP140022	BP140002
Nitrogen:	0.449	0.495
CO2:	1.086	1.085
Methane:	81.441	82.151
Ethane:	9.805	9.425
Propane:	4.268	3.947
I-Butane:	0.613	0.588
N-Butane:	1.217	1.155
I-Pentane:	0.384	0.371
N-Pentane:	0.332	0.325
Hexane+:	0.405	0.458
BTU:	1220.1	1211.4
GPM:	18.9250	18.8460
SPG:	0.7088	0.7038



NO WATER AVAILABLE FROM
BRADENHEAD TO SAMPLE

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

Analysis No: BP140021
Cust No: 12305-11075

30-045-20585

Well/Lease Information

Customer Name: BP AMERICA/FARMINGTON
Well Name: IRVIN COM 1
County/State:
Location:
Field:
Formation: MV
Cust. Stn. No.:

OIL CONS. DIV DIST. 3

JUL 29 2014

Source: BRADENHEAD
Pressure: 180 PSIG
Sample Temp: DEG. F
Well Flowing:
Date Sampled: 05/30/2014
Sampled By: R. LEDESMA
Foreman/Engr.: NATE DEAL

Remarks: SAMPLE TAKEN AT 7:30

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.471	0.0520	0.00	0.0046
CO2	0.015	0.0030	0.00	0.0002
Methane	82.129	13.9670	829.50	0.4549
Ethane	10.024	2.6890	177.39	0.1041
Propane	4.341	1.2000	109.22	0.0661
Iso-Butane	0.613	0.2010	19.93	0.0123
N-Butane	1.218	0.3850	39.73	0.0244
I-Pentane	0.381	0.1400	15.24	0.0095
N-Pentane	0.331	0.1200	13.27	0.0082
Hexane Plus	0.477	0.2130	25.14	0.0158
Total	100.000	18.9700	1229.45	0.7001

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0034
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1236.5
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1215.0
REAL SPECIFIC GRAVITY: 0.7022

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

DRY BTU @ 14.650: 1229.8
DRY BTU @ 14.696: 1233.6
DRY BTU @ 14.730: 1236.5
DRY BTU @ 15.025: 1261.3

CYLINDER #: 1431
CYLINDER PRESSURE: 159 PSIG
DATE RUN: 6/9/14 1:57 PM
ANALYSIS RUN BY: LOGAN CHENEY



BP AMERICA/FARMINGTON
WELL ANALYSIS COMPARISON

Lease: IRVIN COM 1
Stn. No.:
Mtr. No.:

BRADENHEAD
MV

06/11/2014
12305-11075

Smpl Date:	05/30/2014	12/19/2013
Test Date:	06/09/2014	01/15/2014
Run No:	BP140021	BP140001
Nitrogen:	0.471	0.463
CO2:	0.015	0.047
Methane:	82.129	82.304
Ethane:	10.024	9.810
Propane:	4.341	4.288
I-Butane:	0.613	0.629
N-Butane:	1.218	1.203
I-Pentane:	0.381	0.403
N-Pentane:	0.331	0.358
Hexane+:	0.477	0.495
BTU:	1236.5	1236.1
GPM:	18.9700	18.9580
SPG:	0.7022	0.7024