



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

Analysis No: BP140024
Cust No: 12305-11120

30-045-32499

Well/Lease Information

Customer Name: BP AMERICA/FARMINGTON
Well Name: MANSFIELD
County/State:
Location:
Field:
Formation: MV
Cust. Str. No.:

OIL CONS. DIV DIST. 3

JUL 29 2014

Source: INTERMEDIATE
Pressure: 91 PSIG
Sample Temp: DEG. F
Well Flowing:
Date Sampled: 05/30/2014
Sampled By: R. LEDESMA
Foreman/Engr.: NATE DEAL

Remarks: SAMPLE TAKEN AT 10:30

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.823	0.0910	0.00	0.0080
CO2	0.004	0.0010	0.00	0.0001
Methane	92.079	15.6440	930.00	0.5100
Ethane	4.612	1.2360	81.62	0.0479
Propane	1.512	0.4170	38.04	0.0230
Iso-Butane	0.426	0.1400	13.85	0.0085
N-Butane	0.251	0.0790	8.19	0.0050
I-Pentane	0.112	0.0410	4.48	0.0028
N-Pentane	0.056	0.0200	2.24	0.0014
Hexane Plus	0.125	0.0560	6.59	0.0041
Total	100.000	17.7250	1085.02	0.6109

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0024
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1090.1
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1071.1
REAL SPECIFIC GRAVITY: 0.6121

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

DRY BTU @ 14.650: 1084.2
DRY BTU @ 14.696: 1087.6
DRY BTU @ 14.730: 1090.1
DRY BTU @ 15.025: 1111.9

CYLINDER #: 1275
CYLINDER PRESSURE: 88 PSIG
DATE RUN: 6/9/14 12:00 AM
ANALYSIS RUN BY: LOGAN CHENEY



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

Analysis No: BP140025
Cust No: 12305-11125

Well/Lease Information

Customer Name: BP AMERICA/FARMINGTON
Well Name: MOORE E 1B
County/State:
Location:
Field:
Formation: MV
Cust. Stn. No.:

Source: INTERMEDIATE
Pressure: 110 PSIG
Sample Temp: DEG. F
Well Flowing:
Date Sampled: 05/30/2014
Sampled By: R. LEDESMA
Foreman/Engr.: NATE DEAL

Remarks: SAMPLE TAKEN AT 11:15

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.050	0.0060	0.00	0.0005
CO2	0.011	0.0020	0.00	0.0002
Methane	99.472	16.8930	1004.67	0.5510
Ethane	0.337	0.0900	5.96	0.0035
Propane	0.068	0.0190	1.71	0.0010
Iso-Butane	0.008	0.0030	0.26	0.0002
N-Butane	0.013	0.0040	0.42	0.0003
I-Pentane	0.004	0.0010	0.16	0.0001
N-Pentane	0.003	0.0010	0.12	0.0001
Hexane Plus	0.034	0.0150	1.79	0.0011
Total	100.000	17.0340	1015.10	0.5579

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.002
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1019.5
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1001.8
REAL SPECIFIC GRAVITY: 0.5588

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

DRY BTU @ 14.650: 1014.0
DRY BTU @ 14.696: 1017.1
DRY BTU @ 14.730: 1019.5
DRY BTU @ 15.025: 1039.9

CYLINDER #: 1368
CYLINDER PRESSURE: 97 PSIG
DATE RUN: 6/9/14 2:05 PM
ANALYSIS RUN BY: TIMBER EVERETT



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

30-045-32499

Analysis No: BP140023
Cust No: 12305-11050

Well/Lease Information

Customer Name: BP AMERICA/FARMINGTON
Well Name: MANSFIELD 1N
County/State:
Location:
Field:
Formation: MV/DK
Cust. Stn. No.: 85817

OIL CONS. DIV DIST. 3

JUL 29 2014

Source: CASING
Pressure: 105 PSIG
Sample Temp: DEG. F
Well Flowing:
Date Sampled: 05/30/2014
Sampled By: R. LEDESMA
Foreman/Engr.: NATE DEAL

Remarks: SAMPLE TAKEN AT 10:30

Analysis

Component:	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.196	0.0220	0.00	0.0019
CO2	1.576	0.2700	0.00	0.0239
Methane	87.353	14.8510	882.27	0.4838
Ethane	5.472	1.4680	96.84	0.0568
Propane	1.600	0.4420	40.26	0.0244
Iso-Butane	0.545	0.1790	17.72	0.0109
N-Butane	1.042	0.3290	33.99	0.0209
I-Pentane	0.903	0.3310	36.13	0.0225
N-Pentane	0.608	0.2210	24.37	0.0151
Hexane Plus	0.705	0.3150	37.16	0.0233
Total	100.000	18.4280	1168.74	0.6837

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0031
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1175.1
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1154.7
REAL SPECIFIC GRAVITY: 0.6855

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

DRY BTU @ 14.650: 1168.7
DRY BTU @ 14.696: 1172.4
DRY BTU @ 14.730: 1175.1
DRY BTU @ 15.025: 1198.6

CYLINDER #: 1493
CYLINDER PRESSURE: 106 PSIG
DATE RUN: 6/9/14 12:00 AM
ANALYSIS RUN BY: TIMBER EVERETT



BP AMERICA/FARMINGTON
WELL ANALYSIS COMPARISON

Lease: MANSFIELD 1N
Stn. No.: 85817
Mtr. No.:

CASING
MV/DK

06/11/2014
12305-11050

Smpl Date:	05/30/2014	09/30/2013
Test Date:	06/09/2014	10/09/2013
Run No:	BP140023	BP130098
Nitrogen:	0.196	0.197
CO2:	1.576	1.568
Methane:	87.353	88.747
Ethane:	5.472	5.688
Propane:	1.600	1.622
I-Butane:	0.545	0.441
N-Butane:	1.042	0.417
I-Pentane:	0.903	0.277
N-Pentane:	0.608	0.167
Hexane+:	0.705	0.876
BTU:	1175.1	1135.6
GPM:	18.4280	18.1800
SPG:	0.6855	0.6600