



30-045-2464de
Bradenhead

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

Analysis No: SO170029
Cust No: 15950-10160

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT
Well Name: MOORE 11
County/State: NM
Location:
Field:
Formation: MV/DK
Cust. Stn. No.:
API 3004526666

OIL CONS. DIV DIST. 3

AUG 09 2017

Source: BRADENHEAD
Pressure: 49 PSIA
Sample Temp: DEG. F
Well Flowing: Y
Date Sampled: 06/21/2017
Sampled By: E. HAMILTON
Foreman/Engr.: KEVIN IRELAND

Remarks:

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.661	0.0730	0.00	0.0064
CO2	0.048	0.0080	0.00	0.0007
Methane	88.277	15.0040	891.60	0.4890
Ethane	6.703	1.7970	118.63	0.0696
Propane	2.580	0.7130	64.93	0.0393
Iso-Butane	0.472	0.1550	15.34	0.0095
N-Butane	0.614	0.1940	20.02	0.0123
I-Pentane	0.222	0.0820	8.90	0.0055
N-Pentane	0.144	0.0520	5.77	0.0036
Hexane Plus	0.279	0.1250	14.69	0.0092
Total	100.000	18.2030	1139.86	0.6451

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0028
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1145.7
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1125.8
REAL SPECIFIC GRAVITY: 0.6467

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

DRY BTU @ 14.650: 1139.5
DRY BTU @ 14.696: 1143.1
DRY BTU @ 14.730: 1145.7
DRY BTU @ 15.025: 1168.6

CYLINDER #: 7007
CYLINDER PRESSURE: 45 PSIG
DATE RUN: 7/5/17 7:17 AM
ANALYSIS RUN BY: RICHARD WILSON

30-045-2014
Bradenhead



BP - SOUTH BHD PROJECT
WELL ANALYSIS COMPARISON

Lease: MOORE 11
Stn. No.:
Mtr. No.: API 3004526666

BRADENHEAD
MV/DK

07/11/2017
15950-10160

Smpl Date: 06/21/2017
Test Date: 07/05/2017
Run No: SO170029

Nitrogen: 0.661
CO2: 0.048
Methane: 88.277
Ethane: 6.703
Propane: 2.580
I-Butane: 0.472
N-Butane: 0.614
I-Pentane: 0.222
N-Pentane: 0.144
Hexane+: 0.279

BTU: 1145.7
GPM: 18.2030
SPG: 0.6467



30-045-26666
Casing

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

Analysis No: SO170030
Cust No: 15950-10110

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT
Well Name: MOORE 11
County/State: NM
Location:
Field:
Formation: MV/DK
Cust. Stn. No.:
API 3004526666

Source: CASING
Pressure: 154 PSIA
Sample Temp: DEG. F
Well Flowing: Y
Date Sampled: 06/21/2017
Sampled By: E. HAMILTON
Foreman/Engr.: KEVIN IRELAND

Remarks:

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.275	0.0300	0.00	0.0027
CO2	0.781	0.1340	0.00	0.0119
Methane	84.534	14.3720	853.80	0.4682
Ethane	8.285	2.2220	146.62	0.0860
Propane	4.044	1.1170	101.76	0.0616
Iso-Butane	0.326	0.1070	10.60	0.0065
N-Butane	0.960	0.3030	31.31	0.0193
I-Pentane	0.198	0.0730	7.92	0.0049
N-Pentane	0.199	0.0720	7.98	0.0050
Hexane Plus	0.398	0.1780	20.98	0.0132
Total	100.000	18.6080	1180.96	0.6792

* @ 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): 1187.4
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1166.7
REAL SPECIFIC GRAVITY: 0.6811

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

DRY BTU @ 14.650: 1181.0
DRY BTU @ 14.696: 1184.7
DRY BTU @ 14.730: 1187.4
DRY BTU @ 15.025: 1211.2

CYLINDER #: 7004
CYLINDER PRESSURE: 73 PSIG
DATE RUN: 7/5/17 7:17 AM
ANALYSIS RUN BY: RICHARD WILSON



BP - SOUTH BHD PROJECT
WELL ANALYSIS COMPARISON

Lease: MOORE 11
Stn. No.:
Mtr. No.: API 3004526666

CASING
MV/DK

07/11/2017
15950-10110

Smpl Date: 06/21/2017
Test Date: 07/05/2017
Run No: SO170030

Nitrogen: 0.275
CO2: 0.781
Methane: 84.534
Ethane: 8.285
Propane: 4.044
I-Butane: 0.326
N-Butane: 0.960
I-Pentane: 0.198
N-Pentane: 0.199
Hexane+: 0.398

BTU: 1187.4
GPM: 18.6080
SPG: 0.6811



30-045-266666
tubing

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

Analysis No: SO170031
Cust No: 15950-10130

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT
Well Name: MOORE 11
County/State: NM
Location:
Field:
Formation: MV/DK
Cust. Stn. No.:
API 3004526666

Source: TUBING
Pressure: 75 PSIG
Sample Temp: DEG. F
Well Flowing: Y
Date Sampled: 06/21/2017
Sampled By: E. HAMILTON
Foreman/Engr.: KEVIN IRELAND

Remarks:

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.143	0.0160	0.00	0.0014
CO2	1.864	0.3190	0.00	0.0283
Methane	82.994	14.1130	838.24	0.4597
Ethane	8.269	2.2180	146.33	0.0858
Propane	3.665	1.0130	92.21	0.0558
Iso-Butane	0.666	0.2190	21.65	0.0134
N-Butane	1.043	0.3300	34.02	0.0209
I-Pentane	0.379	0.1390	15.16	0.0094
N-Pentane	0.292	0.1060	11.70	0.0073
Hexane Plus	0.686	0.3070	36.15	0.0227
Total	100.000	18.7800	1195.46	0.7048

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0033

BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1202.2

BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1181.3

REAL SPECIFIC GRAVITY: 0.7068

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

DRY BTU @ 14.650: 1195.7

DRY BTU @ 14.696: 1199.4

DRY BTU @ 14.730: 1202.2

DRY BTU @ 15.025: 1226.3

CYLINDER #: 7098

CYLINDER PRESSURE: 73 PSIG

DATE RUN: 7/5/17 7:19 AM

ANALYSIS RUN BY: RICHARD WILSON



30-045-26666
tubing

BP - SOUTH BHD PROJECT
WELL ANALYSIS COMPARISON

Lease: MOORE 11
Stn. No.:
Mtr. No.: API 3004526666

TUBING
MV/DK

07/11/2017
15950-10130

Smpl Date: 06/21/2017
Test Date: 07/05/2017
Run No: SO170031
Nitrogen: 0.143
CO2: 1.864
Methane: 82.994
Ethane: 8.269
Propane: 3.665
I-Butane: 0.666
N-Butane: 1.043
I-Pentane: 0.379
N-Pentane: 0.292
Hexane+: 0.686
BTU: 1202.2
GPM: 18.7800
SPG: 0.7068