



30-045-10349
Bradenhead

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

Analysis No: SO170004
Cust No: 15950-10015

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT
Well Name: HEATON LS 004; BHD
County/State: SAN JUAN NM
Location:
Field:
Formation: MV
Cust. Stn. No.: API 3004510349

Source: BRADENHEAD
Pressure: PSIG
Sample Temp: DEG. F
Well Flowing: Y
Date Sampled: 05/11/2017
Sampled By: EUGENIA HAMILTON
Foreman/Engr.: SABRE BEEBE

OIL CONS. DIV DIST. 3

JAN 02 2018

Remarks:

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	16.775	1.8480	0.00	0.1622
CO2	0.017	0.0030	0.00	0.0003
Methane	81.062	13.7620	818.73	0.4490
Ethane	1.428	0.3820	25.27	0.0148
Propane	0.370	0.1020	9.31	0.0056
Iso-Butane	0.064	0.0210	2.08	0.0013
N-Butane	0.095	0.0300	3.10	0.0019
I-Pentane	0.038	0.0140	1.52	0.0009
N-Pentane	0.040	0.0150	1.60	0.0010
Hexane Plus	0.111	0.0500	5.85	0.0037
Total	100.000	16.2270	867.46	0.6408

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0017
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 871.0
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 855.8
REAL SPECIFIC GRAVITY: 0.6416

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

DRY BTU @ 14.650: 866.3
DRY BTU @ 14.696: 869.0
DRY BTU @ 14.730: 871.0
DRY BTU @ 15.025: 888.4

CYLINDER #: 7050
CYLINDER PRESSURE: 23 PSIG
DATE RUN: 6/2/17 12:00 AM
ANALYSIS RUN BY: PATRICIA KING

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30-045-10349
Bradenhead



BP - SOUTH BHD PROJECT
WELL ANALYSIS COMPARISON

Lease: HEATON LS 004; BHD
Stn. No.: API 3004510349
Mtr. No.:

BRADENHEAD
MV

06/27/2017
15950-10015

Smpl Date: 05/11/2017
Test Date: 06/02/2017
Run No: SO170004

Nitrogen: 16.775
CO2: 0.017
Methane: 81.062
Ethane: 1.428
Propane: 0.370
I-Butane: 0.064
N-Butane: 0.095
I-Pentane: 0.038
N-Pentane: 0.040
Hexane+: 0.111

BTU: 871.0
GPM: 16.2270
SPG: 0.6416



30-045-10349
Casing

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

Analysis No: SO170005
Cust No: 15950-10020

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT
Well Name: HEATON LS 004; CSG
County/State: SAN JUAN NM
Location:
Field:
Formation: MV
Cust. Stn. No.: API 3004510349

OIL CONS. DIV DIST. 3

JAN 02 2018

Source: CASING
Pressure: PSIG
Sample Temp: DEG. F
Well Flowing: Y
Date Sampled: 05/11/2017
Sampled By: EUGENIA HAMILTON
Foreman/Engr.: SABRE BEEBE

Remarks:

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.289	0.0320	0.00	0.0028
CO2	0.537	0.0920	0.00	0.0082
Methane	78.682	13.3880	794.69	0.4358
Ethane	10.029	2.6920	177.48	0.1041
Propane	5.630	1.5570	141.65	0.0857
Iso-Butane	1.086	0.3570	35.31	0.0218
N-Butane	1.684	0.5330	54.94	0.0338
I-Pentane	0.649	0.2380	25.97	0.0162
N-Pentane	0.537	0.1950	21.53	0.0134
Hexane Plus	0.877	0.3930	46.23	0.0290
Total	100.000	19.4770	1297.79	0.7508

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0039

BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1305.9

BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1283.2

REAL SPECIFIC GRAVITY: 0.7534

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

DRY BTU @ 14.650: 1298.8

DRY BTU @ 14.696: 1302.9

DRY BTU @ 14.730: 1305.9

DRY BTU @ 15.025: 1332.1

CYLINDER #: 7049

CYLINDER PRESSURE: 222 PSIG

DATE RUN: 6/2/17 11:02 AM

ANALYSIS RUN BY: PATRICIA KING

30-045-10349
Casing



BP - SOUTH BHD PROJECT
WELL ANALYSIS COMPARISON

Lease: HEATON LS 004; CSG
Stn. No.: API 3004510349
Mtr. No.:

CASING
MV

06/27/2017
15950-10020

Smpl Date: 05/11/2017
Test Date: 06/02/2017
Run No: SO170005

Nitrogen: 0.289
CO2: 0.537
Methane: 78.682
Ethane: 10.029
Propane: 5.630
I-Butane: 1.086
N-Butane: 1.684
I-Pentane: 0.649
N-Pentane: 0.537
Hexane+: 0.877

BTU: 1305.9
GPM: 19.4770
SPG: 0.7534



30-045-10349
tubing

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

Analysis No: SO170006
Cust No: 15950-10025

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT
Well Name: HEATON LS 004; TBG
County/State: SAN JUAN NM
Location:
Field:
Formation: MV
Cust. Stn. No.: API # 3004510349

OIL CONS. DIV DIST. 3

Source: TUBING
Pressure: PSIG
Sample Temp: DEG. F
Well Flowing: Y
Date Sampled: 05/11/2017
Sampled By: EUGENIA HAMILTON
Foreman/Engr.: SABRE BEEBE

JAN 02 2018

Remarks:

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.321	0.0350	0.00	0.0031
CO2	0.823	0.1410	0.00	0.0125
Methane	82.751	14.0730	835.79	0.4584
Ethane	9.104	2.4420	161.11	0.0945
Propane	3.851	1.0640	96.89	0.0586
Iso-Butane	0.620	0.2040	20.16	0.0124
N-Butane	1.155	0.3650	37.68	0.0232
I-Pentane	0.458	0.1680	18.32	0.0114
N-Pentane	0.346	0.1260	13.87	0.0086
Hexane Plus	0.571	0.2550	30.10	0.0189
Total	100.000	18.8730	1213.92	0.7017

* @ 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): 1220.8

BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1199.6

REAL SPECIFIC GRAVITY: 0.7037

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

DRY BTU @ 14.650: 1214.2

DRY BTU @ 14.696: 1218.0

DRY BTU @ 14.730: 1220.8

DRY BTU @ 15.025: 1245.2

CYLINDER #: 7076

CYLINDER PRESSURE: 176 PSIG

DATE RUN: 6/2/17 12:00 AM

ANALYSIS RUN BY: PATRICIA KING

30-045-10349
tubing



BP - SOUTH BHD PROJECT
WELL ANALYSIS COMPARISON

Lease: HEATON LS 004; TBG
Stn. No.: API # 3004510349
Mtr. No.:

TUBING
MV

06/27/2017
15950-10025

Smpl Date: 05/11/2017
Test Date: 06/02/2017
Run No: SO170006

Nitrogen: 0.321
CO2: 0.823
Methane: 82.751
Ethane: 9.104
Propane: 3.851
I-Butane: 0.620
N-Butane: 1.155
I-Pentane: 0.458
N-Pentane: 0.346
Hexane+: 0.571

BTU: 1220.8
GPM: 18.8730
SPG: 0.7037