



3004522817
Bradenhead

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

Analysis No: SO170040
Cust No: 15950-10200

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT
Well Name: NEIL A 9A BHD
County/State: SAN JUAN NM
Location:
Field:
Formation: PC/MV
Cust. Stn. No.: 3004522817

OIL CONS. DIV DIST. 3

JAN 02 2018

Source: BRADENHEAD
Well Flowing: Y
Pressure: 91 PSIA
Flow Temp: DEG. F
Ambient Temp: 91 DEG. F
Flow Rate: MCF/D
Sample Method: PURGE & FILL
Date Sampled: 06/29/2017
Sample Time: 2.17 PM
Sampled By: EUGENIA HAMILTON
Sampled by (CO): SABRE BEEBE

Remarks:

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.2493	0.0280	0.00	0.0024
CO2	0.5826	0.1000	0.00	0.0089
Methane	83.2014	14.1540	840.33	0.4609
Ethane	7.7222	2.0720	136.66	0.0802
Propane	3.6633	1.0130	92.17	0.0558
Iso-Butane	0.7200	0.2360	23.41	0.0144
N-Butane	1.1085	0.3510	36.16	0.0222
I-Pentane	0.5053	0.1850	20.22	0.0126
N-Pentane	0.4202	0.1530	16.84	0.0105
Hexane Plus	1.8272	0.8180	96.31	0.0605
Total	100.0000	19.1100	1262.12	0.7283

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0037
BTU/CU.FT IDEAL: 1265.0
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1269.7
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1247.6
DRY BTU @ 15.025: 1295.1
REAL SPECIFIC GRAVITY: 0.7307

CYLINDER #: 25431
CYLINDER PRESSURE: 68 PSIG
DATE RUN: 7/18/17 2:17 PM
ANALYSIS RUN BY: ALEX VALDEZ

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

GPA Standard: GPA-2261

GC: Danalyzer Model 500

GC Method: C6+ Gas

Last Cal/Verify: 10/02/2017

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30045 22817
Bradenhead

BP - SOUTH BHD PROJECT
WELL ANALYSIS COMPARISON

Lease: NEIL A 9A BHD
Stn. No.: 3004522817
Mtr. No.:

BRADENHEAD
PC/MV

10/02/2017
15950-10200

Smpl Date: 06/29/2017
Test Date: 07/18/2017
Run No: SO170040

Nitrogen: 0.2493
CO2: 0.5826
Methane: 83.2014
Ethane: 7.7222
Propane: 3.6633
I-Butane: 0.7200
N-Butane: 1.1085
I-Pentane: 0.5053
N-Pentane: 0.4202
Hexane+: 1.8272

BTU: 1269.7
GPM: 19.1100
SPG: 0.7307



3004522817
Casing
2030 Afton Place
Farmington, NM 87401
(505) 325-6622

Analysis No: SO170041
Cust No: 15950-10195

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT
Well Name: NEIL A 9A CSG
County/State: SAN JUAN NM
Location:
Field:
Formation: PC/MV
Cust. Stn. No.: 3004522817

Source: CASING
Well Flowing: Y
Pressure: 91 PSIG
Flow Temp: DEG. F
Ambient Temp: DEG. F
Flow Rate: 91 MCF/D
Sample Method:
Date Sampled: 06/29/2017
Sample Time: 2.26 PM
Sampled By: EUGENIA HAMILTON
Sampled by (CO): SABRE BEBEE

OIL CONS. DIV DIST. 3
JAN 02 2018

Remarks:

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.3662	0.0400	0.00	0.0035
CO2	0.6004	0.1030	0.00	0.0091
Methane	84.1507	14.3110	849.92	0.4661
Ethane	7.8953	2.1180	139.72	0.0820
Propane	3.6328	1.0040	91.40	0.0553
Iso-Butane	0.6883	0.2260	22.38	0.0138
N-Butane	1.0053	0.3180	32.80	0.0202
I-Pentane	0.4047	0.1480	16.19	0.0101
N-Pentane	0.2984	0.1090	11.96	0.0074
Hexane Plus	0.9579	0.4290	50.49	0.0317
Total	100.0000	18.8060	1214.87	0.6993

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0034
BTU/CU.FT IDEAL: 1217.7
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1221.8
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1200.5
DRY BTU @ 15.025: 1246.3
REAL SPECIFIC GRAVITY: 0.7014

CYLINDER #: 7010
CYLINDER PRESSURE: 6 PSIG
DATE RUN: 7/18/17 2:26 PM
ANALYSIS RUN BY: ALEX VALDEZ

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

GPA Standard: GPA-2261

GC: Danalyzer Model 500

Last Cal/Verify: 10/02/2017

GC Method: C6+ Gas



3004522817
Casing

BP - SOUTH BHD PROJECT
WELL ANALYSIS COMPARISON

Lease: NEIL A 9A CSG
Stn. No.: 3004522817
Mtr. No.:

CASING
PC/MV

10/02/2017
15950-10195

Smpl Date: 06/29/2017
Test Date: 07/18/2017
Run No: SO170041

Nitrogen: 0.3662
CO2: 0.6004
Methane: 84.1507
Ethane: 7.8953
Propane: 3.6328
I-Butane: 0.6883
N-Butane: 1.0053
I-Pentane: 0.4047
N-Pentane: 0.2984
Hexane+: 0.9579

BTU: 1221.8
GPM: 18.8060
SPG: 0.7014



3004522817
Tubing

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

Analysis No: SO170042
Cust No: 15950-10190

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT
Well Name: NEIL A 9A TBG
County/State: SAN JUAN NM
Location:
Field:
Formation: PC/MV
Cust. Stn. No.: 3004522817

OIL CONS. DIV DIST. 3

JAN 02 2018

Source: TUBING
Well Flowing: Y
Pressure: 42 PSIG
Flow Temp: DEG. F
Ambient Temp: 91 DEG. F
Flow Rate: MCF/D
Sample Method:
Date Sampled: 06/29/2017
Sample Time: 2.28 PM
Sampled By: EUGENIA HAMILTON
Sampled by (CO): SABRE BEEBE

Remarks:

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.4094	0.0450	0.00	0.0040
CO2	1.3024	0.2230	0.00	0.0198
Methane	80.3555	13.6710	811.59	0.4451
Ethane	9.2425	2.4810	163.56	0.0960
Propane	4.2332	1.1700	106.51	0.0645
Iso-Butane	0.7647	0.2510	24.87	0.0153
N-Butane	1.3347	0.4220	43.54	0.0268
I-Pentane	0.5181	0.1900	20.73	0.0129
N-Pentane	0.4188	0.1520	16.79	0.0104
Hexane Plus	1.4207	0.6360	74.89	0.0470
Total	100.0000	19.2410	1262.48	0.7417

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0038
BTU/CU.FT IDEAL: 1265.4
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1270.2
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1248.1
DRY BTU @ 15.025: 1295.6
REAL SPECIFIC GRAVITY: 0.7443

CYLINDER #: 7058
CYLINDER PRESSURE: 15 PSIG
DATE RUN: 7/18/17 2:28 PM
ANALYSIS RUN BY: ALEX VALDEZ

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

GPA Standard: GPA-2261

GC: Danalyzer Model 500

GC Method: C6+ Gas

Last Cal/Verify: 10/02/2017



3004522817
Tubing

BP - SOUTH BHD PROJECT
WELL ANALYSIS COMPARISON

Lease: NEIL A 9A TBG
Stn. No.: 3004522817
Mtr. No.:

TUBING
PC/MV

10/02/2017
15950-10190

Smpl Date: 06/29/2017
Test Date: 07/18/2017
Run No: SO170042
Nitrogen: 0.4094
CO2: 1.3024
Methane: 80.3555
Ethane: 9.2425
Propane: 4.2332
I-Butane: 0.7647
N-Butane: 1.3347
I-Pentane: 0.5181
N-Pentane: 0.4188
Hexane+: 1.4207
BTU: 1270.2
GPM: 19.2410
SPG: 0.7443