



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

Analysis No: SO170055
Cust No: 15950-10275

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT
Well Name: FLORANCE 51 Y;BRD
County/State: SAN JUAN NM
Location:
Field:
Formation: PC
Cust. Stn. No.:
API 3004511653

OIL CONS. DIV DIST. 3

JAN 02 2018

Source: BRADENHEAD
Well Flowing: N
Pressure: 77 PSIA
Flow Temp: DEG. F
Ambient Temp: 82 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Date Sampled: 08/08/2017
Sample Time: 10.00 AM
Sampled By: MATTHEW YAZZIE
Sampled by (CO): PESCO

Remarks:

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.5048	0.0560	0.00	0.0049
CO2	1.8763	0.3210	0.00	0.0285
Methane	83.4126	14.1840	842.47	0.4620
Ethane	7.3706	1.9770	130.44	0.0765
Propane	3.6818	1.0170	92.64	0.0561
Iso-Butane	0.7051	0.2310	22.93	0.0141
N-Butane	1.0708	0.3390	34.93	0.0215
I-Pentane	0.3870	0.1420	15.48	0.0096
N-Pentane	0.2667	0.0970	10.69	0.0066
Hexane Plus	0.7243	0.3240	38.18	0.0240
Total	100.0000	18.6880	1187.76	0.7039

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0033
BTU/CU.FT IDEAL: 1190.5
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1194.4
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1173.6
DRY BTU @ 15.025: 1218.3
REAL SPECIFIC GRAVITY: 0.7059

CYLINDER #: 7027
CYLINDER PRESSURE: 76 PSIG
DATE RUN: 8/14/17 12:00 AM
ANALYSIS RUN BY: RICHARD WILSON

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

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BP - SOUTH BHD PROJECT
WELL ANALYSIS COMPARISON

Lease: FLORANCE 51 Y;BRD
Stn. No.:
Mtr. No.: API 3004511653

BRADENHEAD
PC

10/02/2017
15950-10275

Smpl Date: 08/08/2017
Test Date: 08/14/2017
Run No: SO170055

Nitrogen: 0.5048
CO2: 1.8763
Methane: 83.4126
Ethane: 7.3706
Propane: 3.6818
I-Butane: 0.7051
N-Butane: 1.0708
I-Pentane: 0.3870
N-Pentane: 0.2667
Hexane+: 0.7243

BTU: 1194.4
GPM: 18.6880
SPG: 0.7059



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

Analysis No: SO170056
Cust No: 15950-10280

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT
Well Name: FLORANCE 51 Y; CSG
County/State: SAN JUAN NM
Location:
Field:
Formation: PC
Cust. Str. No.:
API 3004511653

OIL CONS. DIV DIST. 3

JAN 02 2018

Source: CASING
Well Flowing: N
Pressure: 77 PSIA
Flow Temp: DEG. F
Ambient Temp: 82 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Date Sampled: 08/08/2017
Sample Time: 10.28 AM
Sampled By: MATTHEW YAZZIE
Sampled by (CO): PESCO

Remarks:

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1802	0.0200	0.00	0.0017
CO2	1.8685	0.3200	0.00	0.0284
Methane	83.4906	14.1970	843.26	0.4625
Ethane	7.4234	1.9910	131.37	0.0771
Propane	3.7489	1.0360	94.33	0.0571
Iso-Butane	0.7348	0.2410	23.89	0.0147
N-Butane	1.1419	0.3610	37.25	0.0229
I-Pentane	0.4179	0.1530	16.72	0.0104
N-Pentane	0.2915	0.1060	11.69	0.0073
Hexane Plus	0.7023	0.3140	37.02	0.0232
Total	100.0000	18.7390	1195.52	0.7053

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0033
BTU/CU.FT IDEAL: 1198.3
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1202.3
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1181.4
DRY BTU @ 15.025: 1226.4
REAL SPECIFIC GRAVITY: 0.7074

CYLINDER #: 7016
CYLINDER PRESSURE: 74 PSIG
DATE RUN: 8/14/17 10:28 AM
ANALYSIS RUN BY: RICHARD WILSON

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



BP - SOUTH BHD PROJECT
WELL ANALYSIS COMPARISON

Lease: FLORANCE 51 Y; CSG
Stn. No.:
Mtr. No.: API 3004511653

CASING
PC

10/02/2017
15950-10280

Smpl Date: 08/08/2017
Test Date: 08/14/2017
Run No: SO170056
Nitrogen: 0.1802
CO2: 1.8685
Methane: 83.4906
Ethane: 7.4234
Propane: 3.7489
I-Butane: 0.7348
N-Butane: 1.1419
I-Pentane: 0.4179
N-Pentane: 0.2915
Hexane+: 0.7023
BTU: 1202.3
GPM: 18.7390
SPG: 0.7074