



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

Analysis No: SO170060
Cust No: 15950-10330

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT
Well Name: FLORANCE 18A;BHD
County/State: SAN JUAN NM
Location:
Field:
Formation: MV
Cust. Str. No.:
API 3004522120

OIL CONS. DIV DIST. 3

JAN 02 2018

Source: BRADENHEAD
Well Flowing: Y
Pressure: 42.4 PSIA
Flow Temp: DEG. F
Ambient Temp: 81 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Date Sampled: 08/15/2017
Sample Time: 3.30 PM
Sampled By: MATTHEW YAZZIE
Sampled by (CO): PESCO

Remarks:

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	46.2674	5.1420	0.00	0.4475
CO2	1.0254	0.1770	0.00	0.0156
Methane	17.9327	3.0710	181.12	0.0993
Ethane	3.3253	0.8980	58.85	0.0345
Propane	4.9341	1.3730	124.15	0.0751
Iso-Butane	1.8691	0.6180	60.78	0.0375
N-Butane	4.3014	1.3700	140.32	0.0863
I-Pentane	2.4121	0.8910	96.51	0.0601
N-Pentane	1.8399	0.6740	73.76	0.0458
Hexane Plus	16.0926	7.2500	848.25	0.5326
Total	100.0000	21.4640	1583.73	1.4344

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0105
BTU/CU.FT IDEAL: 1587.4
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1604.1
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1576.2
DRY BTU @ 15.025: 1636.2
REAL SPECIFIC GRAVITY: 1.4489

CYLINDER #: 7020
CYLINDER PRESSURE: 36 PSIG
DATE RUN: 8/23/17 3:30 PM
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 18A;BHD
Stn. No.:
Mtr. No.: API 3004522120

BRADENHEAD
MV

10/02/2017
15950-10330

Smpl Date: 08/15/2017
Test Date: 08/23/2017
Run No: SO170060
Nitrogen: 46.2674
CO2: 1.0254
Methane: 17.9327
Ethane: 3.3253
Propane: 4.9341
I-Butane: 1.8691
N-Butane: 4.3014
I-Pentane: 2.4121
N-Pentane: 1.8399
Hexane+: 16.0926
BTU: 1604.1
GPM: 21.4640
SPG: 1.4489



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

Analysis No: SO170062
Cust No: 15950-10320

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT
Well Name: FLORANCE 18A;TBG
County/State: SAN JUAN NM
Location:
Field:
Formation: MV
Cust. Stn. No.:
API 3004522120

OIL CONS. DIV DIST. 3

JAN 02 2018

Source: TUBING
Well Flowing: Y
Pressure: 49.4 PSIA
Flow Temp: DEG. F
Ambient Temp: 81 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Date Sampled: 08/15/2017
Sample Time: 3.41 PM
Sampled By: MATTHEW YAZZIE
Sampled by (CO): PESCO

Remarks:

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1825	0.0200	0.00	0.0018
CO2	1.8563	0.3180	0.00	0.0282
Methane	82.8960	14.0980	837.25	0.4592
Ethane	8.1939	2.1980	145.01	0.0851
Propane	3.6545	1.0100	91.95	0.0556
Iso-Butane	0.6572	0.2160	21.37	0.0132
N-Butane	1.0941	0.3460	35.69	0.0220
I-Pentane	0.3725	0.1370	14.90	0.0093
N-Pentane	0.2840	0.1030	11.38	0.0071
Hexane Plus	0.8090	0.3620	42.64	0.0268
Total	100.0000	18.8080	1200.20	0.7081

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0034
BTU/CU.FT IDEAL: 1203.0
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1207.1
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1186.1
DRY BTU @ 15.025: 1231.3
REAL SPECIFIC GRAVITY: 0.7102

CYLINDER #: 7044
CYLINDER PRESSURE: 42 PSIG
DATE RUN: 8/23/17 3:41 PM
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 18A;TBG
Stn. No.:
Mtr. No.: API 3004522120

TUBING
MV

10/02/2017
15950-10320

Smpl Date: 08/15/2017
Test Date: 08/23/2017
Run No: SO170062

Nitrogen: 0.1825
CO2: 1.8563
Methane: 82.8960
Ethane: 8.1939
Propane: 3.6545
I-Butane: 0.6572
N-Butane: 1.0941
I-Pentane: 0.3725
N-Pentane: 0.2840
Hexane+: 0.8090

BTU: 1207.1
GPM: 18.8080
SPG: 0.7102



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

Analysis No: SO170061
Cust No: 15950-10325

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT
Well Name: FLORANCE 18A;CSG
County/State: SAN JUAN NM
Location:
Field:
Formation: MV
Cust. Stn. No.:
API 3004522120

Source: CASING
Well Flowing: Y
Pressure: 65.7 PSIA
Flow Temp: DEG. F
Ambient Temp: 81 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Date Sampled: 08/15/2017
Sample Time: 3.57 PM
Sampled By: MATTHEW YAZZIE
Sampled by (CO): PESCO

Remarks:

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1361	0.0150	0.00	0.0013
CO2	1.3101	0.2240	0.00	0.0199
Methane	84.7854	14.4170	856.33	0.4696
Ethane	7.5030	2.0130	132.78	0.0779
Propane	3.2724	0.9040	82.34	0.0498
Iso-Butane	0.6016	0.1970	19.56	0.0121
N-Butane	0.8904	0.2820	29.05	0.0179
I-Pentane	0.3628	0.1330	14.52	0.0090
N-Pentane	0.2634	0.0960	10.56	0.0066
Hexane Plus	0.8748	0.3910	46.11	0.0290
Total	100.0000	18.6720	1191.25	0.6931

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0033
BTU/CU.FT IDEAL: 1194.0
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1198.0
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1177.2
DRY BTU @ 15.025: 1222.0
REAL SPECIFIC GRAVITY: 0.6951

CYLINDER #: 7035
CYLINDER PRESSURE: 62 PSIG
DATE RUN: 8/23/17 3:57 PM
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 18A;CSG
Stn. No.:
Mtr. No.: API 3004522120

CASING
MV

10/02/2017
15950-10325

Smpl Date: 08/15/2017
Test Date: 08/23/2017
Run No: SO170061

Nitrogen: 0.1361
CO2: 1.3101
Methane: 84.7854
Ethane: 7.5030
Propane: 3.2724
I-Butane: 0.6016
N-Butane: 0.8904
I-Pentane: 0.3628
N-Pentane: 0.2634
Hexane+: 0.8748

BTU: 1198.0
GPM: 18.6720
SPG: 0.6951