



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

Analysis No: SO170066
Cust No: 15950-10300

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT
Well Name: FLORANCE GC D 004A;BHD
County/State: SAN JUAN NM
Location:
Field:
Formation: MV
Cust. Stn. No.:
API 3004522147

OIL CONS. DIV DIST. 3

JAN 02 2018

Source: BRADENHEAD
Well Flowing: Y
Pressure: 32.4 PSIA
Flow Temp: DEG. F
Ambient Temp: 85 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Date Sampled: 08/14/2017
Sample Time: 2.10 PM
Sampled By: MATTHEW YAZZIE
Sampled by (CO): PESCO

Remarks:

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	9.9573	1.0970	0.00	0.0963
CO2	0.2475	0.0420	0.00	0.0038
Methane	87.4751	14.8540	883.50	0.4845
Ethane	1.4027	0.3760	24.82	0.0146
Propane	0.5453	0.1500	13.72	0.0083
Iso-Butane	0.0946	0.0310	3.08	0.0019
N-Butane	0.1342	0.0420	4.38	0.0027
I-Pentane	0.0677	0.0250	2.71	0.0017
N-Pentane	0.0287	0.0100	1.15	0.0007
Hexane Plus	0.0469	0.0210	2.47	0.0016
Total	100.0000	16.6480	935.83	0.6160

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0019
BTU/CU.FT IDEAL: 938.0
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 939.8
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 923.4
DRY BTU @ 15.025: 958.6
REAL SPECIFIC GRAVITY: 0.6169

CYLINDER #: 7097
CYLINDER PRESSURE: 27 PSIG
DATE RUN: 8/23/17 2:10 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 GC D 004A;BHD
Stn. No.:
Mtr. No.: API 3004522147

BRADENHEAD
MV

10/02/2017
15950-10300

Smpl Date: 08/14/2017
Test Date: 08/23/2017
Run No: SO170066
Nitrogen: 9.9573
CO2: 0.2475
Methane: 87.4751
Ethane: 1.4027
Propane: 0.5453
I-Butane: 0.0946
N-Butane: 0.1342
I-Pentane: 0.0677
N-Pentane: 0.0287
Hexane+: 0.0469
BTU: 939.8
GPM: 16.6480
SPG: 0.6169



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

Analysis No: SO170068
Cust No: 15950-10290

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT
Well Name: FLORANCE GC D 004 A;TBG
County/State: SAN JUAN NM
Location:
Field:
Formation: MS
Cust. Str. No.:
API 3004522147

OIL CONS. DIV DIST. 3

JAN 02 2018

Source: TUBING
Well Flowing: Y
Pressure: 18.7 PSIA
Flow Temp: DEG. F
Ambient Temp: 85 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Date Sampled: 08/14/2017
Sample Time: 2.25 PM
Sampled By: MATTHEW YAZZIE
Sampled by (CO): BP

Remarks:

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1378	0.0150	0.00	0.0013
CO2	2.6869	0.4600	0.00	0.0408
Methane	84.1899	14.3160	850.32	0.4663
Ethane	7.0359	1.8870	124.51	0.0730
Propane	2.8739	0.7940	72.31	0.0438
Iso-Butane	0.6255	0.2050	20.34	0.0126
N-Butane	0.8522	0.2690	27.80	0.0171
I-Pentane	0.3706	0.1360	14.83	0.0092
N-Pentane	0.2860	0.1040	11.46	0.0071
Hexane Plus	0.9413	0.4210	49.62	0.0312
Total	100.0000	18.6070	1171.19	0.7025

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0033
BTU/CU.FT IDEAL: 1173.9
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1177.8
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1157.3
DRY BTU @ 15.025: 1201.4
REAL SPECIFIC GRAVITY: 0.7045

CYLINDER #: 77064
CYLINDER PRESSURE: 17 PSIG
DATE RUN: 8/23/17 2:25 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

GC Method: C6+ Gas

Last Cal/Verify: 10/02/2017



BP - SOUTH BHD PROJECT
WELL ANALYSIS COMPARISON

Lease: FLORANCE GC D 004 A;TBG
Stn. No.:
Mtr. No.: API 3004522147

TUBING
MS

10/02/2017
15950-10290

Smpl Date: 08/14/2017
Test Date: 08/23/2017
Run No: SO170068

Nitrogen: 0.1378
CO2: 2.6869
Methane: 84.1899
Ethane: 7.0359
Propane: 2.8739
I-Butane: 0.6255
N-Butane: 0.8522
I-Pentane: 0.3706
N-Pentane: 0.2860
Hexane+: 0.9413

BTU: 1177.8
GPM: 18.6070
SPG: 0.7045



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

Analysis No: SO170067
Cust No: 15950-10295

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT
Well Name: FLORANCE GC D 004A;CSG
County/State: SAN JUAN NM
Location:
Field:
Formation: MV
Cust. Stn. No.:
API 3004522147

OIL CONS. DIV DIST. 3

JAN 02 2018

Source: CASING
Well Flowing: Y
Pressure: 56.2 PSIA
Flow Temp: DEG. F
Ambient Temp: 85 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Date Sampled: 08/14/2017
Sample Time: 2:36 PM
Sampled By: MATTHEW YAZZIE
Sampled by (CO): PESCO

Remarks:

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1376	0.0150	0.00	0.0013
CO2	4.5665	0.7810	0.00	0.0694
Methane	86.4866	14.7010	873.51	0.4790
Ethane	5.0067	1.3430	88.60	0.0520
Propane	1.9893	0.5490	50.05	0.0303
Iso-Butane	0.4151	0.1360	13.50	0.0083
N-Butane	0.4320	0.1370	14.09	0.0087
I-Pentane	0.1967	0.0720	7.87	0.0049
N-Pentane	0.1307	0.0480	5.24	0.0033
Hexane Plus	0.6388	0.2860	33.67	0.0211
Total	100.0000	18.0680	1086.54	0.6783

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0029
BTU/CU.FT IDEAL: 1089.1
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1092.2
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1073.2
DRY BTU @ 15.025: 1114.1
REAL SPECIFIC GRAVITY: 0.68

CYLINDER #: 7004
CYLINDER PRESSURE: 53 PSIG
DATE RUN: 8/23/17 2:36 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 GC D 004A;CSG
Stn. No.:
Mtr. No.: API 3004522147

CASING
MV

10/02/2017
15950-10295

Smpl Date: 08/14/2017
Test Date: 08/23/2017
Run No: SO170067

Nitrogen: 0.1376
CO2: 4.5665
Methane: 86.4866
Ethane: 5.0067
Propane: 1.9893
I-Butane: 0.4151
N-Butane: 0.4320
I-Pentane: 0.1967
N-Pentane: 0.1307
Hexane+: 0.6388

BTU: 1092.2
GPM: 18.0680
SPG: 0.6800