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

Analysis No: SO170063
Cust No: 15950-10315

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT
Well Name: FLORANCE L19;BHD
County/State: SAN JAUN NM
Location:
Field:
Formation: MV
Cust. Stn. No.:
API 3004509916

OIL CONS. DIV DIST. 3
JAN 02 2018

Source: BRADENHEAD
Well Flowing: Y
Pressure: 11.4 PSIA
Flow Temp: DEG. F
Ambient Temp: 81 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Date Sampled: 08/10/2017
Sample Time: 10.53 AM
Sampled By: MATTHEW YAZZIE
Sampled by (CO): PESCO

Remarks:

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.5848	0.0650	0.00	0.0057
CO2	0.0491	0.0080	0.00	0.0007
Methane	86.3269	14.6750	871.90	0.4782
Ethane	7.6888	2.0620	136.07	0.0798
Propane	3.1344	0.8660	78.86	0.0477
Iso-Butane	0.5472	0.1800	17.79	0.0110
N-Butane	0.8016	0.2530	26.15	0.0161
I-Pentane	0.2848	0.1040	11.39	0.0071
N-Pentane	0.1935	0.0700	7.76	0.0048
Hexane Plus	0.3889	0.1740	20.50	0.0129
Total	100.0000	18.4570	1170.43	0.6640

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY
**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBLITY FACTOR (1/Z):	1.003	CYLINDER #:	5122
BTU/CU.FT IDEAL:	1173.1	CYLINDER PRESSURE:	11 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1176.7	DATE RUN:	8/23/17 10:53 AM
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1156.2	ANALYSIS RUN BY:	RICHARD WILSON
DRY BTU @ 15.025:	1200.3		
REAL SPECIFIC GRAVITY:	0.6657		

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 L19;BHD	BRADENHEAD	10/02/2017
Stn. No.:		MV	15950-10315
Mtr. No.:	API 3004509916		

Smpl Date:	08/10/2017
Test Date:	08/23/2017
Run No:	SO170063
Nitrogen:	0.5848
CO2:	0.0491
Methane:	86.3269
Ethane:	7.6888
Propane:	3.1344
I-Butane:	0.5472
N-Butane:	0.8016
I-Pentane:	0.2848
N-Pentane:	0.1935
Hexane+:	0.3889
BTU:	1176.7
GPM:	18.4570
SPG:	0.6657

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

Analysis No: SO170064
Cust No: 15950-10310

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT
Well Name: FLORANCE L19;CSG
County/State: SAN JUAN NM
Location:
Field:
Formation: MV
Cust. Stn. No.:
API 3004509916

OIL CONS. DIV DIST. 3
JAN 02 2018

Source: CASING
Well Flowing: Y
Pressure: 91.7 PSIA
Flow Temp: DEG. F
Ambient Temp: 84 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Date Sampled: 08/10/2017
Sample Time: 11.30 AM
Sampled By: MATTHEW YAZZIE
Sampled by (CO): PESCO

Remarks:

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1746	0.0190	0.00	0.0017
CO2	1.5790	0.2700	0.00	0.0240
Methane	82.7309	14.0710	835.58	0.4582
Ethane	8.1034	2.1740	143.41	0.0841
Propane	3.6388	1.0060	91.56	0.0554
Iso-Butane	0.6751	0.2220	21.95	0.0135
N-Butane	1.1021	0.3490	35.95	0.0221
I-Pentane	0.4356	0.1600	17.43	0.0109
N-Pentane	0.3357	0.1220	13.46	0.0084
Hexane Plus	1.2248	0.5480	64.56	0.0405
Total	100.0000	18.9410	1223.90	0.7189

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY
**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBLITY FACTOR (1/Z):	1.0035	CYLINDER #:	7043
BTU/CU.FT IDEAL:	1226.7	CYLINDER PRESSURE:	84 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1231.0	DATE RUN:	8/23/17 11:30 AM
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1209.6	ANALYSIS RUN BY:	RICHARD WILSON
DRY BTU @ 15.025:	1255.7		
REAL SPECIFIC GRAVITY:	0.7211		

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 L19;CSG	CASING	10/02/2017
Stn. No.:		MV	15950-10310
Mtr. No.:	API 3004509916		

Smpl Date:	08/10/2017
Test Date:	08/23/2017
Run No:	SO170064
Nitrogen:	0.1746
CO2:	1.5790
Methane:	82.7309
Ethane:	8.1034
Propane:	3.6388
I-Butane:	0.6751
N-Butane:	1.1021
I-Pentane:	0.4356
N-Pentane:	0.3357
Hexane+:	1.2248
BTU:	1231.0
GPM:	18.9410
SPG:	0.7211

2030 Afton Place
Farmington, NM 87401
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Analysis No: SO170065
Cust No: 15950-10305

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT
Well Name: FLORANCE L19;TBG
County/State: SAN JUAN NM
Location:
Field:
Formation: MV
Cust. Stn. No.:
API 3004509916

OIL CONS. DIV DIST. 3
JAN 0 8 2018

Source: TUBING
Well Flowing: Y
Pressure: 72.5 PSIA
Flow Temp: DEG. F
Ambient Temp: 82 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Date Sampled: 08/10/2017
Sample Time: 11.02 AM
Sampled By: MATTHEW YAZZIE
Sampled by (CO): PESCO

Remarks:

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1810	0.0200	0.00	0.0018
CO2	1.7817	0.3050	0.00	0.0271
Methane	84.8155	14.4210	856.64	0.4698
Ethane	7.2025	1.9320	127.46	0.0748
Propane	3.1146	0.8610	78.37	0.0474
Iso-Butane	0.6210	0.2040	20.19	0.0125
N-Butane	0.8859	0.2800	28.90	0.0178
I-Pentane	0.3343	0.1230	13.38	0.0083
N-Pentane	0.2531	0.0920	10.15	0.0063
Hexane Plus	0.8104	0.3620	42.72	0.0268
Total	100.0000	18.6000	1177.80	0.6925

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY
**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBLITY FACTOR (1/Z):	1.0032
BTU/CU.FT IDEAL:	1180.5
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1184.3
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1163.7
DRY BTU @ 15.025:	1208.0
REAL SPECIFIC GRAVITY:	0.6945

CYLINDER #:	7091
CYLINDER PRESSURE:	74 PSIG
DATE RUN:	8/23/17 11:02 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 L19;TBG	TUBING	10/02/2017
Stn. No.:		MV	15950-10305
Mtr. No.:	API 3004509916		

Smpl Date:	08/10/2017
Test Date:	08/23/2017
Run No:	SO170065
Nitrogen:	0.1810
CO2:	1.7817
Methane:	84.8155
Ethane:	7.2025
Propane:	3.1146
I-Butane:	0.6210
N-Butane:	0.8859
I-Pentane:	0.3343
N-Pentane:	0.2531
Hexane+:	0.8104
BTU:	1184.3
GPM:	18.6000
SPG:	0.6945