



NMOCD REC'D
10/12/20

Well Name: FLORANCE GC D 004A;
API #: API # 300452214700
Source: BRADENHEAD
Sample Type: GAS
Analysis No: SO200026
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:
Lease/PA/CA:
Formation: MV
Cust. Stn. No.: API # 300452214700

Source: BRADENHEAD
Well Flowing: Y
Pressure: 32.5 PSIG
Flow Temp: DEG. F
Ambient Temp: 73 DEG. F
Flow Rate: MCF/D
Sample Method:
Sample Date: 06/16/2020
Sample Time: 1.15 PM
Sampled By: JASON MARTINEZ
Sampled by (CO): ABC

Heat Trace:

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	9.1615	9.0189	1.0100	0.00	0.0886
CO2	0.2718	0.2676	0.0460	0.00	0.0041
Methane	88.4860	87.1084	15.0260	893.71	0.4901
Ethane	1.2950	1.2748	0.3470	22.92	0.0134
Propane	0.4999	0.4921	0.1380	12.58	0.0076
Iso-Butane	0.1106	0.1089	0.0360	3.60	0.0022
N-Butane	0.0977	0.0962	0.0310	3.19	0.0020
I-Pentane	0.0356	0.0350	0.0130	1.42	0.0009
N-Pentane	0.0168	0.0165	0.0060	0.67	0.0004
Hexane Plus	0.0251	0.0247	0.0110	1.32	0.0008
Total	100.0000	98.4431	16.6640	939.41	0.6102

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0019
BTU/CU.FT IDEAL: 941.6
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 943.4
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 927.0
DRY BTU @ 15.025: 962.3
REAL SPECIFIC GRAVITY: 0.6112

CYLINDER #: 9
CYLINDER PRESSURE: 31 PSIG
ANALYSIS DATE: 06/18/2020
ANALYSIS TIME: 11:37:36 AM
ANALYSIS RUN BY: PATRICIA KING

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: 06/19/2020

GC Method: C6+ Gas



BP - SOUTH BHD PROJECT
WELL ANALYSIS COMPARISON

Lease: FLORANCE GC D 004A;BHD
Stn. No.: API #
Mtr. No.:

BRADENHEAD
MV

06/19/2020
15950-10300

Smpl Date:	06/16/2020	06/17/2019	08/14/2017
Test Date:	06/18/2020	06/25/2019	08/14/2017
Run No:	SO200026	SO190067	SO170066
Nitrogen:	9.1615	9.4488	9.9573
CO2:	0.2718	0.2556	0.2475
Methane:	88.4860	88.1154	87.4751
Ethane:	1.2950	1.3506	1.4027
Propane:	0.4999	0.5127	0.5453
I-Butane:	0.1106	0.0904	0.0946
N-Butane:	0.0977	0.1018	0.1342
I-Pentane:	0.0356	0.0367	0.0677
N-Pentane:	0.0168	0.0177	0.0287
Hexane+:	0.0251	0.0703	0.0469
BTU:	943.4	942.9	939.8
GPM:	16.6640	16.6630	16.6480
SPG:	0.6112	0.6136	0.6169



NMOCD REC'D
10/12/20

Well Name: FLORANCE GC D 004A;
API #: API # 300452214700
Source: TUBING
Sample Type: GAS
Analysis No: SO200028
Cust No: 15950-10290

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT
Well Name: FLORANCE GC D 004A;TBG
County/State: SAN JUAN NM
Location:
Lease/PA/CA:
Formation: MV
Cust. Stn. No.: API # 300452214700

Source: TUBING
Well Flowing: Y
Pressure: 12.3 PSIG
Flow Temp: DEG. F
Ambient Temp: 73 DEG. F
Flow Rate: MCF/D
Sample Method:
Sample Date: 06/16/2020
Sample Time: 1.11 PM
Sampled By: JASON MARTINEZ
Sampled by (CO): ABC

Heat Trace:

Remarks: PRESSURED WITH HELIUM TO 30LBS.

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1574	0.0858	0.0170	0.00	0.0015
CO2	3.3012	1.7996	0.5650	0.00	0.0502
Methane	85.1825	46.4367	14.4820	860.34	0.4718
Ethane	6.2195	3.3905	1.6680	110.07	0.0646
Propane	2.6532	1.4464	0.7330	66.76	0.0404
Iso-Butane	0.5424	0.2957	0.1780	17.64	0.0109
N-Butane	0.6969	0.3799	0.2200	22.73	0.0140
I-Pentane	0.2763	0.1506	0.1010	11.05	0.0069
N-Pentane	0.2058	0.1122	0.0750	8.25	0.0051
Hexane Plus	0.7648	0.4169	0.3420	40.31	0.0253
Total	100.0000	54.5143	18.3810	1137.16	0.6907

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0031
BTU/CU.FT IDEAL: 1139.8
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1143.3
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1123.4
DRY BTU @ 15.025: 1166.2
REAL SPECIFIC GRAVITY: 0.6925

CYLINDER #: 1094
CYLINDER PRESSURE: PSIG
ANALYSIS DATE: 06/18/2020
ANALYSIS TIME: 12:58:27 AM
ANALYSIS RUN BY: SHYANN ELLEDGE

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: 06/19/2020

GC Method: C6+ Gas



BP - SOUTH BHD PROJECT
WELL ANALYSIS COMPARISON

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

TUBING
MV

06/19/2020
15950-10290

Smpl Date:	06/16/2020	06/17/2019	08/14/2017
Test Date:	06/18/2020	06/25/2019	08/14/2017
Run No:	SO200028	SO190069	SO170068
Nitrogen:	0.1574	0.1946	0.1378
CO2:	3.3012	3.3807	2.6869
Methane:	85.1825	84.2977	84.1899
Ethane:	6.2195	6.6096	7.0359
Propane:	2.6532	2.8470	2.8739
I-Butane:	0.5424	0.5652	0.6255
N-Butane:	0.6969	0.7498	0.8522
I-Pentane:	0.2763	0.2958	0.3706
N-Pentane:	0.2058	0.2229	0.2860
Hexane+:	0.7648	0.8367	0.9413
BTU:	1143.3	1154.1	1177.8
GPM:	18.3810	18.4790	18.6070
SPG:	0.6925	0.7011	0.7045



NMOCD REC'D
10/12/20

Well Name: FLORANCE GC D 004A;
API #: API # 300452214700
Source: CASING
Sample Type: GAS
Analysis No: SO200027
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:
Lease/PA/CA:
Formation: MV
Cust. Stn. No.: API # 300452214700

Source: CASING
Well Flowing: Y
Pressure: 47 PSIG
Flow Temp: DEG. F
Ambient Temp: 73 DEG. F
Flow Rate: MCF/D
Sample Method:
Sample Date: 06/16/2020
Sample Time: 1.00 PM
Sampled By: JASON MARTINEZ
Sampled by (CO): ABC

Heat Trace:

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1210	0.1193	0.0130	0.00	0.0012
CO2	6.9846	6.8874	1.1950	0.00	0.1061
Methane	87.3237	86.1081	14.8370	881.97	0.4837
Ethane	3.7194	3.6676	0.9970	65.82	0.0386
Propane	1.3617	1.3427	0.3760	34.26	0.0207
Iso-Butane	0.2532	0.2497	0.0830	8.23	0.0051
N-Butane	0.1221	0.1204	0.0390	3.98	0.0025
I-Pentane	0.0408	0.0402	0.0150	1.63	0.0010
N-Pentane	0.0136	0.0134	0.0050	0.55	0.0003
Hexane Plus	0.0599	0.0591	0.0270	3.16	0.0020
Total	100.0000	98.6079	17.5870	999.61	0.6612

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0025
BTU/CU.FT IDEAL: 1001.9
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1004.4
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 986.9
DRY BTU @ 15.025: 1024.5
REAL SPECIFIC GRAVITY: 0.6626

CYLINDER #: 1060
CYLINDER PRESSURE: 45 PSIG
ANALYSIS DATE: 06/18/2020
ANALYSIS TIME: 01:14:51 PM
ANALYSIS RUN BY: PATRICIA KING

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: 06/19/2020

GC Method: C6+ Gas



BP - SOUTH BHD PROJECT
WELL ANALYSIS COMPARISON

Lease: FLORANCE GC D 004A;CSG
Stn. No.: API #
Mtr. No.:

CASING
MV

06/19/2020
15950-10295

Smpl Date:	06/16/2020	06/17/2019	08/14/2017
Test Date:	06/18/2020	06/25/2019	08/14/2017
Run No:	SO200027	SO190068	SO170067
Nitrogen:	0.1210	0.1566	0.1376
CO2:	6.9846	7.1461	4.5665
Methane:	87.3237	87.1297	86.4866
Ethane:	3.7194	3.6844	5.0067
Propane:	1.3617	1.3944	1.9893
I-Butane:	0.2532	0.2536	0.4151
N-Butane:	0.1221	0.1235	0.4320
I-Pentane:	0.0408	0.0406	0.1967
N-Pentane:	0.0136	0.0140	0.1307
Hexane+:	0.0599	0.0571	0.6388
BTU:	1004.4	1002.6	1092.2
GPM:	17.5870	17.5840	18.0680
SPG:	0.6626	0.6644	0.6800