



NMOCD REC'D
10/12/20

Well Name: ATLANTIC B LS 8A;BHD
API #: API # 300452297500
Source: BRADENHEAD
Sample Type: GAS
Analysis No: SO200040
Cust No: 15950-10355

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT
Well Name: ATLANTIC B LS 8A;BHD
County/State: SAN JUAN NM
Location:
Lease/PA/CA:
Formation: MV
Cust. Stn. No.: API # 300452297500

Source: BRADENHEAD
Well Flowing: Y
Pressure: 35 PSIG
Flow Temp: DEG. F
Ambient Temp: 70 DEG. F
Flow Rate: MCF/D
Sample Method:
Sample Date: 06/24/2020
Sample Time: 8.40 AM
Sampled By: CADE S.
Sampled by (CO): ABC

Heat Trace: N
Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	2.3488	2.3066	0.2590	0.00	0.0227
CO2	0.0051	0.0050	0.0010	0.00	0.0001
Methane	89.2565	87.6543	15.1660	901.49	0.4944
Ethane	5.2323	5.1384	1.4020	92.60	0.0543
Propane	2.0477	2.0109	0.5650	51.52	0.0312
Iso-Butane	0.3714	0.3647	0.1220	12.08	0.0075
N-Butane	0.4284	0.4207	0.1350	13.98	0.0086
I-Pentane	0.1389	0.1364	0.0510	5.56	0.0035
N-Pentane	0.0763	0.0749	0.0280	3.06	0.0019
Hexane Plus	0.0946	0.0929	0.0420	4.99	0.0031
Total	100.0000	98.2048	17.7710	1085.26	0.6272

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0025
BTU/CU.FT IDEAL: 1087.8
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1090.5
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1071.5
DRY BTU @ 15.025: 1112.3
REAL SPECIFIC GRAVITY: 0.6285

CYLINDER #: 1060
CYLINDER PRESSURE: 31 PSIG
ANALYSIS DATE: 06/25/2020
ANALYSIS TIME: 03:31:20 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: 06/29/2020

GC Method: C6+ Gas



BP - SOUTH BHD PROJECT
WELL ANALYSIS COMPARISON

Lease: ATLANTIC B LS 8A;BHD
Stn. No.: API #
Mtr. No.:

BRADENHEAD
MV

06/29/2020
15950-10355

Smpl Date:	06/24/2020	09/14/2017
Test Date:	06/25/2020	09/14/2017
Run No:	SO200040	SO170071
Nitrogen:	2.3488	2.6366
CO2:	0.0051	0.0255
Methane:	89.2565	88.9255
Ethane:	5.2323	5.2092
Propane:	2.0477	2.0228
I-Butane:	0.3714	0.3658
N-Butane:	0.4284	0.4404
I-Pentane:	0.1389	0.1582
N-Pentane:	0.0763	0.0907
Hexane+:	0.0946	0.1253
BTU:	1090.5	1089.3
GPM:	17.7710	17.7650
SPG:	0.6285	0.6312



NMOCD REC'D
10/12/20

Well Name: ATLANTIC B LS 8A;CSG
API #: API # 300452297500
Source: CASING
Sample Type: GAS
Analysis No: SO200038
Cust No: 15950-10350

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT
Well Name: ATLANTIC B LS 8A;CSG
County/State: SAN JUAN NM
Location:
Lease/PA/CA:
Formation:
Cust. Stn. No.: API # 300452297500

Source: CASING
Well Flowing: Y
Pressure: 80 PSIG
Flow Temp: DEG. F
Ambient Temp: 78 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 06/24/2020
Sample Time: 8.50 AM
Sampled By: CADE S.
Sampled by (CO): ABC

Heat Trace: N
Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1647	0.1601	0.0180	0.00	0.0016
CO2	1.2105	1.1767	0.2070	0.00	0.0184
Methane	84.3812	82.0233	14.3490	852.25	0.4674
Ethane	8.1053	7.8788	2.1740	143.44	0.0841
Propane	3.2497	3.1589	0.8980	81.77	0.0495
Iso-Butane	0.5936	0.5770	0.1950	19.30	0.0119
N-Butane	0.8254	0.8023	0.2610	26.93	0.0166
I-Pentane	0.3151	0.3063	0.1160	12.61	0.0078
N-Pentane	0.2333	0.2268	0.0850	9.35	0.0058
Hexane Plus	0.9212	0.8955	0.4120	48.56	0.0305
Total	100.0000	97.2057	18.7150	1194.20	0.6936

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0033
BTU/CU.FT IDEAL: 1197.0
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1200.9
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1180.0
DRY BTU @ 15.025: 1225.0
REAL SPECIFIC GRAVITY: 0.6956

CYLINDER #: 1256
CYLINDER PRESSURE: 72 PSIG
ANALYSIS DATE: 06/25/2020
ANALYSIS TIME: 03:58:14 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: 06/29/2020

GC Method: C6+ Gas



BP - SOUTH BHD PROJECT
WELL ANALYSIS COMPARISON

Lease: ATLANTIC B LS 8A;CSG
Stn. No.: API #
Mtr. No.:

CASING

06/29/2020
15950-10350

Smpl Date:	06/24/2020	09/14/2017
Test Date:	06/25/2020	09/14/2017
Run No:	SO200038	SO170072
Nitrogen:	0.1647	0.3050
CO2:	1.2105	1.2179
Methane:	84.3812	84.7212
Ethane:	8.1053	7.9391
Propane:	3.2497	3.1014
I-Butane:	0.5936	0.6031
N-Butane:	0.8254	0.7910
I-Pentane:	0.3151	0.3193
N-Pentane:	0.2333	0.2368
Hexane+:	0.9212	0.7652
BTU:	1200.9	1188.8
GPM:	18.7150	18.6260
SPG:	0.6956	0.6895



NMOCD REC'D
10/12/20

Well Name: ATLANTIC B LS 8A;TBG
API #: API # 300452297500
Source: TUBING
Sample Type: GAS
Analysis No: SO200039
Cust No: 15950-10345

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT
Well Name: ATLANTIC B LS 8A;TBG
County/State: SAN JUAN NM
Location:
Lease/PA/CA:
Formation:
Cust. Stn. No.: API # 300452297500

Source: TUBING
Well Flowing: Y
Pressure: 70 PSIG
Flow Temp: DEG. F
Ambient Temp: 70 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 06/24/2020
Sample Time: 9.15 AM
Sampled By: CADE S.
Sampled by (CO): ABC

Heat Trace: N
Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1799	0.1779	0.0200	0.00	0.0017
CO2	0.0972	0.0961	0.0170	0.00	0.0015
Methane	87.9913	87.0230	14.9540	888.71	0.4874
Ethane	8.4728	8.3795	2.2710	149.94	0.0880
Propane	2.3692	2.3431	0.6540	59.61	0.0361
Iso-Butane	0.2206	0.2182	0.0720	7.17	0.0044
N-Butane	0.4137	0.4091	0.1310	13.50	0.0083
I-Pentane	0.0858	0.0849	0.0310	3.43	0.0021
N-Pentane	0.0608	0.0601	0.0220	2.44	0.0015
Hexane Plus	0.1087	0.1075	0.0490	5.73	0.0036
Total	100.0000	98.8994	18.2210	1130.54	0.6346

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0027
BTU/CU.FT IDEAL: 1133.2
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1136.2
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1116.4
DRY BTU @ 15.025: 1159.0
REAL SPECIFIC GRAVITY: 0.6361

CYLINDER #: 1275
CYLINDER PRESSURE: 67 PSIG
ANALYSIS DATE: 06/25/2020
ANALYSIS TIME: 03:45:16 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: 06/29/2020

GC Method: C6+ Gas



BP - SOUTH BHD PROJECT
WELL ANALYSIS COMPARISON

Lease: ATLANTIC B LS 8A;TBG
Stn. No.: API #
Mtr. No.:

TUBING

06/29/2020
15950-10345

Smpl Date:	06/24/2020	09/14/2017
Test Date:	06/25/2020	09/14/2017
Run No:	SO200039	SO170073
Nitrogen:	0.1799	1.5139
CO2:	0.0972	8.1138
Methane:	87.9913	78.1025
Ethane:	8.4728	8.7867
Propane:	2.3692	2.4438
I-Butane:	0.2206	0.1489
N-Butane:	0.4137	0.2217
I-Pentane:	0.0858	0.1380
N-Pentane:	0.0608	0.1105
Hexane+:	0.1087	0.4202
BTU:	1136.2	1055.6
GPM:	18.2210	18.2620
SPG:	0.6361	0.7284