



NMOCD REC'D
10/12/20

Well Name: ATLANTIC A LS 1 ; CSG
API #: API #300451028100
Source: CASING
Sample Type: GAS
Analysis No: SO200175
Cust No: 15950-12235

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT
Well Name: ATLANTIC A LS 1 ; CSG
County/State: NM
Location:
Lease/PA/CA:
Formation:
Cust. Stn. No.: API #300451028100
70096

Source: CASING
Well Flowing: Y
Pressure: 60 PSIG
Flow Temp: DEG. F
Ambient Temp: 77 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 09/23/2020
Sample Time: 11.55 AM
Sampled By: SEAN C.
Sampled by (CO): ABC

Heat Trace: N
Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1792	0.1758	0.0200	0.00	0.0017
CO2	1.2051	1.1824	0.2060	0.00	0.0183
Methane	83.0647	81.5013	14.1280	838.95	0.4601
Ethane	8.5749	8.4135	2.3010	151.75	0.0890
Propane	3.5298	3.4634	0.9760	88.81	0.0537
Iso-Butane	0.5683	0.5576	0.1870	18.48	0.0114
N-Butane	0.9167	0.8994	0.2900	29.91	0.0184
I-Pentane	0.3363	0.3300	0.1230	13.46	0.0084
N-Pentane	0.2633	0.2583	0.0960	10.55	0.0066
Hexane Plus	1.3617	1.3361	0.6090	71.78	0.0451
Total	100.0000	98.1178	18.9360	1223.69	0.7127

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0035
BTU/CU.FT IDEAL: 1226.5
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1230.8
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1209.4
DRY BTU @ 15.025: 1255.4
REAL SPECIFIC GRAVITY: 0.7149

CYLINDER #: 1092
CYLINDER PRESSURE: 56 PSIG
ANALYSIS DATE: 09/30/2020
ANALYSIS TIME: 01:43:43 PM
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: 10/06/2020

GC Method: C6+ Gas



BP - SOUTH BHD PROJECT
WELL ANALYSIS COMPARISON

Lease: ATLANTIC A LS 1 ; CSG
Stn. No.: API
Mtr. No.: 70096

CASING

10/06/2020
15950-12235

Smpl Date: 09/23/2020
Test Date: 09/30/2020
Run No: SO200175

Nitrogen: 0.1792
CO2: 1.2051
Methane: 83.0647
Ethane: 8.5749
Propane: 3.5298
I-Butane: 0.5683
N-Butane: 0.9167
I-Pentane: 0.3363
N-Pentane: 0.2633
Hexane+: 1.3617

BTU: 1230.8
GPM: 18.9360
SPG: 0.7149



NMOCD REC'D
10/12/20

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

Analysis No: SO200176
Cust No: 15950-12240

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT
Well Name: ATLANTIC A LS 1 ; INT
County/State: NM
Location:
Lease/PA/CA:
Formation:
Cust. Stn. No.: API #300451028100
70096

Source: INTERMEDIATE
Well Flowing:
Pressure: 49 PSIG
Flow Temp: DEG. F
Ambient Temp: 77 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 09/23/2020
Sample Time: 11.50 AM
Sampled By: SEAN C.
Sampled by (CO): ABC

Heat Trace:
Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1994	0.1939	0.0220	0.00	0.0019
CO2	1.1989	1.1659	0.2050	0.00	0.0182
Methane	83.3596	81.0634	14.1760	841.93	0.4617
Ethane	8.5911	8.3544	2.3050	152.04	0.0892
Propane	3.5219	3.4249	0.9730	88.61	0.0536
Iso-Butane	0.5635	0.5480	0.1850	18.32	0.0113
N-Butane	0.9062	0.8812	0.2870	29.56	0.0182
I-Pentane	0.3395	0.3301	0.1250	13.58	0.0085
N-Pentane	0.2646	0.2573	0.0960	10.61	0.0066
Hexane Plus	1.0553	1.0262	0.4720	55.63	0.0349
Total	100.0000	97.2453	18.8460	1210.29	0.7042

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0034
BTU/CU.FT IDEAL: 1213.1
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1217.2
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1196.0
DRY BTU @ 15.025: 1241.6
REAL SPECIFIC GRAVITY: 0.7063

CYLINDER #: 1093
CYLINDER PRESSURE: 49 PSIG
ANALYSIS DATE: 09/30/2020
ANALYSIS TIME: 01:11:59 PM
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: 10/06/2020

GC Method: C6+ Gas



BP - SOUTH BHD PROJECT
WELL ANALYSIS COMPARISON

Lease: ATLANTIC A LS 1 ; INT
Stn. No.: API
Mtr. No.: 70096

INTERMEDIATE

10/06/2020
15950-12240

Smpl Date: 09/23/2020
Test Date: 09/30/2020
Run No: SO200176

Nitrogen: 0.1994
CO2: 1.1989
Methane: 83.3596
Ethane: 8.5911
Propane: 3.5219
I-Butane: 0.5635
N-Butane: 0.9062
I-Pentane: 0.3395
N-Pentane: 0.2646
Hexane+: 1.0553

BTU: 1217.2
GPM: 18.8460
SPG: 0.7063



NMOCD REC'D
10/12/20

Well Name: ATLANTIC A LS 1 ; TBG
API #: API #300451028100
Source: TUBING
Sample Type: GAS
Analysis No: SO200177
Cust No: 15950-12245

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT
Well Name: ATLANTIC A LS 1 ; TBG
County/State: NM
Location:
Lease/PA/CA:
Formation:
Cust. Stn. No.: API #300451028100
70096

Source: TUBING
Well Flowing: Y
Pressure: 58 PSIG
Flow Temp: DEG. F
Ambient Temp: 77 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 09/23/2020
Sample Time: 12.00 PM
Sampled By: SEAN C.
Sampled by (CO): ABC

Heat Trace: N
Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1649	0.1619	0.0180	0.00	0.0016
CO2	1.7533	1.7218	0.3000	0.00	0.0266
Methane	80.7459	79.2951	13.7360	815.53	0.4473
Ethane	9.2417	9.0756	2.4800	163.55	0.0959
Propane	4.0717	3.9985	1.1260	102.45	0.0620
Iso-Butane	0.7380	0.7247	0.2420	24.00	0.0148
N-Butane	1.1957	1.1742	0.3780	39.01	0.0240
I-Pentane	0.4592	0.4509	0.1690	18.37	0.0114
N-Pentane	0.3814	0.3745	0.1390	15.29	0.0095
Hexane Plus	1.2482	1.2258	0.5590	65.79	0.0413
Total	100.0000	98.2030	19.1470	1243.99	0.7345

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0037
BTU/CU.FT IDEAL: 1246.9
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1251.5
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1229.7
DRY BTU @ 15.025: 1276.6
REAL SPECIFIC GRAVITY: 0.7369

CYLINDER #: 089
CYLINDER PRESSURE: 54 PSIG
ANALYSIS DATE: 09/30/2020
ANALYSIS TIME: 01:27:52 PM
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: 10/06/2020

GC Method: C6+ Gas



BP - SOUTH BHD PROJECT
WELL ANALYSIS COMPARISON

Lease: ATLANTIC A LS 1 ; TBG
Stn. No.: API
Mtr. No.: 70096

TUBING

10/06/2020
15950-12245

Smpl Date: 09/23/2020
Test Date: 09/30/2020
Run No: SO200177

Nitrogen: 0.1649
CO2: 1.7533
Methane: 80.7459
Ethane: 9.2417
Propane: 4.0717
I-Butane: 0.7380
N-Butane: 1.1957
I-Pentane: 0.4592
N-Pentane: 0.3814
Hexane+: 1.2482

BTU: 1251.5
GPM: 19.1470
SPG: 0.7369