



Well Name: W D HEATH A 8M ; TBG
 API #: API # 300453229600
 Source: TUBING
 Sample Type: GAS
 Analysis No: SO200229
 Cust No: 15950-12505

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT
 Well Name: W D HEATH A 8M ; TBG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA:
 Formation:
 Cust. Stn. No.: API # 300453229600
 85532
 Source: TUBING
 Well Flowing: Y
 Pressure: 42 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 66 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 09/23/2020
 Sample Time: 10.08 AM
 Sampled By: ERIK SHAW
 Sampled by (CO): ABC
 Heat Trace: N
 Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.3589	0.3494	0.0400	0.00	0.0035
CO2	1.9704	1.9184	0.3370	0.00	0.0299
Methane	82.7812	80.5948	14.0770	836.09	0.4585
Ethane	8.6633	8.4345	2.3240	153.31	0.0899
Propane	3.2535	3.1676	0.8990	81.86	0.0495
Iso-Butane	0.6855	0.6674	0.2250	22.29	0.0138
N-Butane	0.7963	0.7753	0.2520	25.98	0.0160
I-Pentane	0.3583	0.3488	0.1310	14.34	0.0089
N-Pentane	0.2310	0.2249	0.0840	9.26	0.0058
Hexane Plus	0.9016	0.8778	0.4030	47.52	0.0298
Total	100.0000	97.3589	18.7720	1190.65	0.7057

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0033	CYLINDER #:	018
BTU/CU.FT IDEAL:	1193.4	CYLINDER PRESSURE:	42 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1197.4	ANALYSIS DATE:	10/02/2020
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1176.6	ANALYSIS TIME:	04:14:06 PM
DRY BTU @ 15.025:	1221.4	ANALYSIS RUN BY:	RICHARD WILSON
REAL SPECIFIC GRAVITY:	0.7077		

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: 10/08/2020

GC Method: C6+ Gas



BP - SOUTH BHD PROJECT
WELL ANALYSIS COMPARISON

Lease: W D HEATH A 8M ; TBG
Stn. No.: API #
Mtr. No.: 85532

TUBING

10/08/2020
15950-12505

Smpl Date: 09/23/2020
Test Date: 10/02/2020
Run No: SO200229

Nitrogen: 0.3589
CO2: 1.9704
Methane: 82.7812
Ethane: 8.6633
Propane: 3.2535
I-Butane: 0.6855
N-Butane: 0.7963
I-Pentane: 0.3583
N-Pentane: 0.2310
Hexane+: 0.9016

BTU: 1197.4
GPM: 18.7720
SPG: 0.7077



OCD Received 10/28/2020

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

Analysis No: SO200230
Cust No: 15950-12510

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT
Well Name: W D HEATH A 8M ; INT
County/State: SAN JUAN NM
Location:
Lease/PA/CA:
Formation:
Cust. Stn. No.: API # 300453229600
85532

Source: INTERMEDIATE
Well Flowing: Y
Pressure: 159 PSIG
Flow Temp: DEG. F
Ambient Temp: 66 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 09/23/2020
Sample Time: 10.17 AM
Sampled By: ERIK SHAW
Sampled by (CO): ABC

Heat Trace: N
Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.1975	1.1700	0.1320	0.00	0.0116
CO2	0.0000	0.0000	0.0000	0.00	0.0000
Methane	90.1502	88.0824	15.3190	910.52	0.4993
Ethane	4.0211	3.9289	1.0780	71.16	0.0417
Propane	3.2414	3.1670	0.8950	81.56	0.0494
Iso-Butane	0.3250	0.3175	0.1070	10.57	0.0065
N-Butane	0.6194	0.6052	0.1960	20.21	0.0124
I-Pentane	0.1433	0.1400	0.0530	5.73	0.0036
N-Pentane	0.1030	0.1006	0.0370	4.13	0.0026
Hexane Plus	0.1991	0.1945	0.0890	10.49	0.0066
Total	100.0000	97.7061	17.9060	1114.37	0.6337

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0026
BTU/CU.FT IDEAL: 1116.9
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1119.9
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1100.4
DRY BTU @ 15.025: 1142.3
REAL SPECIFIC GRAVITY: 0.6351

CYLINDER #: 1027
CYLINDER PRESSURE: 151 PSIG
ANALYSIS DATE: 10/02/2020
ANALYSIS TIME: 03:48:18 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: 10/08/2020

GC Method: C6+ Gas



BP - SOUTH BHD PROJECT
WELL ANALYSIS COMPARISON

Lease: W D HEATH A 8M ; INT
Stn. No.: API #
Mtr. No.: 85532

INTERMEDIATE

10/08/2020
15950-12510

Smpl Date: 09/23/2020
Test Date: 10/02/2020
Run No: SO200230

Nitrogen: 1.1975
CO2: 0.0000
Methane: 90.1502
Ethane: 4.0211
Propane: 3.2414
I-Butane: 0.3250
N-Butane: 0.6194
I-Pentane: 0.1433
N-Pentane: 0.1030
Hexane+: 0.1991

BTU: 1119.9
GPM: 17.9060
SPG: 0.6351



OCD Received 10/28/2020

Well Name: W D HEATH A 8M ; CSG
 API #: API # 300453229600
 Source: CASING
 Sample Type: GAS
 Analysis No: SO200231
 Cust No: 15950-12515

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT
 Well Name: W D HEATH A 8M ; CSG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA:
 Formation:
 Cust. Stn. No.: API # 300453229600
 85532

Source: CASING
 Well Flowing: Y
 Pressure: 53.6 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 66 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 09/23/2020
 Sample Time: 10.12 AM
 Sampled By: ERIK SHAW
 Sampled by (CO): ABC

Heat Trace: N
 Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.3944	0.3839	0.0440	0.00	0.0038
CO2	0.9450	0.9199	0.1620	0.00	0.0144
Methane	77.2815	75.2269	13.1510	780.54	0.4281
Ethane	10.5022	10.2230	2.8190	185.86	0.1090
Propane	6.1214	5.9587	1.6930	154.02	0.0932
Iso-Butane	1.0378	1.0102	0.3410	33.75	0.0208
N-Butane	1.7211	1.6753	0.5450	56.15	0.0345
I-Pentane	0.5309	0.5168	0.1950	21.24	0.0132
N-Pentane	0.4488	0.4369	0.1630	17.99	0.0112
Hexane Plus	1.0169	0.9899	0.4550	53.60	0.0337
Total	100.0000	97.3415	19.5680	1303.15	0.7619

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.004
 BTU/CU.FT IDEAL: 1306.2
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1311.4
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1288.6
 DRY BTU @ 15.025: 1337.7
 REAL SPECIFIC GRAVITY: 0.7646

CYLINDER #: 1102
 CYLINDER PRESSURE: 48 PSIG
 ANALYSIS DATE: 10/05/2020
 ANALYSIS TIME: 09:53:44 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: 10/08/2020

GC Method: C6+ Gas



BP - SOUTH BHD PROJECT
WELL ANALYSIS COMPARISON

Lease: W D HEATH A 8M ; CSG
Stn. No.: API #
Mtr. No.: 85532

CASING

10/08/2020
15950-12515

Smpl Date: 09/23/2020
Test Date: 10/05/2020
Run No: SO200231

Nitrogen: 0.3944
CO2: 0.9450
Methane: 77.2815
Ethane: 10.5022
Propane: 6.1214
I-Butane: 1.0378
N-Butane: 1.7211
I-Pentane: 0.5309
N-Pentane: 0.4488
Hexane+: 1.0169

BTU: 1311.4
GPM: 19.5680
SPG: 0.7646