



Well Name: EALUM GC 1M ; TBG
 API #: API # 300453348600
 Source: TUBING
 Sample Type: GAS
 Analysis No: SO200198
 Cust No: 15950-12350

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT
 Well Name: EALUM GC 1M ; TBG
 County/State: NM
 Location:
 Lease/PA/CA:
 Formation:
 Cust. Stn. No.: API # 300453348600
 86962

Source: TUBING
 Well Flowing: Y
 Pressure: 104 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 80 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 09/25/2020
 Sample Time: 12.30 PM
 Sampled By: ERIK SHAW
 Sampled by (CO): ABC

Heat Trace: N
 Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.0981	0.0977	0.0110	0.00	0.0009
CO2	3.0747	3.0611	0.5260	0.00	0.0467
Methane	96.3396	95.9131	16.3630	973.03	0.5336
Ethane	0.4282	0.4263	0.1150	7.58	0.0044
Propane	0.0276	0.0275	0.0080	0.69	0.0004
Iso-Butane	0.0185	0.0184	0.0060	0.60	0.0004
N-Butane	0.0034	0.0034	0.0010	0.11	0.0001
I-Pentane	0.0045	0.0045	0.0020	0.18	0.0001
N-Pentane	0.0000	0.0000	0.0000	0.00	0.0000
Hexane Plus	0.0054	0.0054	0.0020	0.28	0.0002
Total	100.0000	99.5574	17.0340	982.48	0.5869

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0021
 BTU/CU.FT IDEAL: 984.8
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 986.8
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 969.6
 DRY BTU @ 15.025: 1006.6
 REAL SPECIFIC GRAVITY: 0.5879

CYLINDER #: 1068
 CYLINDER PRESSURE: 90 PSIG
 ANALYSIS DATE: 10/05/2020
 ANALYSIS TIME: 10:50:44 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: EALUM GC 1M ; TBG
Stn. No.: API #
Mtr. No.: 86962

TUBING

10/08/2020
15950-12350

Smpl Date: 09/25/2020
Test Date: 10/05/2020
Run No: SO200198

Nitrogen: 0.0981
CO2: 3.0747
Methane: 96.3396
Ethane: 0.4282
Propane: 0.0276
I-Butane: 0.0185
N-Butane: 0.0034
I-Pentane: 0.0045
N-Pentane: 0.0000
Hexane+: 0.0054

BTU: 986.8
GPM: 17.0340
SPG: 0.5879



OCD Received 10/28/2020

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

Analysis No: SO200199
Cust No: 15950-12355

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT
Well Name: EALUM GC 1M ; INT
County/State: NM
Location:
Lease/PA/CA:
Formation:
Cust. Stn. No.: API # 300453348600
86962

Source: INTERMEDIATE
Well Flowing:
Pressure: 60 PSIG
Flow Temp: DEG. F
Ambient Temp: 80 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 09/22/2020
Sample Time: 12.25 PM
Sampled By: ERIK SHAW
Sampled by (CO): ABC

Heat Trace:
Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1260	0.1244	0.0140	0.00	0.0012
CO2	0.0396	0.0391	0.0070	0.00	0.0006
Methane	95.0214	93.8109	16.1450	959.72	0.5263
Ethane	1.9865	1.9612	0.5320	35.16	0.0206
Propane	1.3095	1.2928	0.3620	32.95	0.0199
Iso-Butane	0.2873	0.2836	0.0940	9.34	0.0058
N-Butane	0.3681	0.3634	0.1160	12.01	0.0074
I-Pentane	0.1635	0.1614	0.0600	6.54	0.0041
N-Pentane	0.1238	0.1222	0.0450	4.96	0.0031
Hexane Plus	0.5743	0.5670	0.2570	30.27	0.0190
Total	100.0000	98.7260	17.6320	1090.95	0.6080

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0025
BTU/CU.FT IDEAL: 1093.5
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1096.2
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1077.1
DRY BTU @ 15.025: 1118.2
REAL SPECIFIC GRAVITY: 0.6093

CYLINDER #: 003
CYLINDER PRESSURE: 38 PSIG
ANALYSIS DATE: 10/05/2020
ANALYSIS TIME: 11:20:14 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:	EALUM GC 1M ; INT	INTERMEDIATE	10/08/2020
Stn. No.:	API #		15950-12355
Mtr. No.:	86962		

Smpl Date:	09/22/2020
Test Date:	10/05/2020
Run No:	SO200199
Nitrogen:	0.1260
CO2:	0.0396
Methane:	95.0214
Ethane:	1.9865
Propane:	1.3095
I-Butane:	0.2873
N-Butane:	0.3681
I-Pentane:	0.1635
N-Pentane:	0.1238
Hexane+:	0.5743
BTU:	1096.2
GPM:	17.6320
SPG:	0.6093