



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

Analysis No: SO200133
Cust No: 15950-12030

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT
Well Name: NEBU 60A; INT
County/State: NM
Location:
Lease/PA/CA:
Formation:
Cust. Stn. No.: API # 300453108800

Source: INTERMEDIATE
Well Flowing: Y
Pressure: PSIG
Flow Temp: DEG. F
Ambient Temp: 82 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 09/16/2020
Sample Time: 2.40 PM
Sampled By: ERIK SHAW
Sampled by (CO): ABC

Heat Trace: N
Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.0985	0.0984	0.0110	0.00	0.0010
CO2	0.0113	0.0113	0.0020	0.00	0.0002
Methane	53.6727	53.5956	9.1600	542.09	0.2973
Ethane	17.6081	17.5828	4.7400	311.61	0.1828
Propane	19.3997	19.3718	5.3800	488.12	0.2954
Iso-Butane	3.6837	3.6784	1.2130	119.79	0.0739
N-Butane	4.5178	4.5113	1.4340	147.38	0.0907
I-Pentane	0.6301	0.6292	0.2320	25.21	0.0157
N-Pentane	0.3016	0.3012	0.1100	12.09	0.0075
Hexane Plus	0.0765	0.0764	0.0340	4.03	0.0025
Total	100.0000	99.8564	22.3160	1650.33	0.9669

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0069
BTU/CU.FT IDEAL: 1654.1
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1665.5
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1636.5
DRY BTU @ 15.025: 1698.9
REAL SPECIFIC GRAVITY: 0.9731

CYLINDER #: 122
CYLINDER PRESSURE: 159 PSIG
ANALYSIS DATE: 09/23/2020
ANALYSIS TIME: 09:36:38 AM
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: 09/24/2020

GC Method: C6+ Gas



BP - SOUTH BHD PROJECT
WELL ANALYSIS COMPARISON

Lease: NEBU 60A; INT
Stn. No.: API #
Mtr. No.:

INTERMEDIATE

09/24/2020
15950-12030

Smpl Date: 09/16/2020
Test Date: 09/23/2020
Run No: SO200133

Nitrogen: 0.0985
CO2: 0.0113
Methane: 53.6727
Ethane: 17.6081
Propane: 19.3997
I-Butane: 3.6837
N-Butane: 4.5178
I-Pentane: 0.6301
N-Pentane: 0.3016
Hexane+: 0.0765

BTU: 1665.5
GPM: 22.3160
SPG: 0.9731



NMOCD REC'D
10/12/20

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

Analysis No: SO200132
Cust No: 15950-12025

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT
Well Name: NEBU 60A;CSG / TBG
County/State: NM
Location:
Lease/PA/CA:
Formation:
Cust. Stn. No.: API # 300453108800

Source: CASING / TUBING
Well Flowing: Y
Pressure: 179 PSIG
Flow Temp: DEG. F
Ambient Temp: 82 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 09/16/2020
Sample Time: 2.35 PM
Sampled By: ERIK SHAW
Sampled by (CO): ABC

Heat Trace: N
Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1112	0.1106	0.0120	0.00	0.0011
CO2	3.1743	3.1581	0.5430	0.00	0.0482
Methane	96.5203	96.0283	16.3930	974.86	0.5346
Ethane	0.1739	0.1730	0.0470	3.08	0.0018
Propane	0.0150	0.0149	0.0040	0.38	0.0002
Iso-Butane	0.0026	0.0026	0.0010	0.08	0.0001
N-Butane	0.0027	0.0027	0.0010	0.09	0.0001
I-Pentane	0.0000	0.0000	0.0000	0.00	0.0000
N-Pentane	0.0000	0.0000	0.0000	0.00	0.0000
Hexane Plus	0.0000	0.0000	0.0000	0.00	0.0000
Total	100.0000	99.4902	17.0010	978.48	0.5861

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0021
BTU/CU.FT IDEAL: 980.7
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 982.8
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 965.7
DRY BTU @ 15.025: 1002.5
REAL SPECIFIC GRAVITY: 0.5871

CYLINDER #: 040
CYLINDER PRESSURE: 157 PSIG
ANALYSIS DATE: 09/23/2020
ANALYSIS TIME: 09:51:53 AM
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: 09/24/2020

GC Method: C6+ Gas



BP - SOUTH BHD PROJECT
WELL ANALYSIS COMPARISON

Lease: NEBU 60A;CSG / TBG
Stn. No.: API #
Mtr. No.:

CASING / TUBING

09/24/2020
15950-12025

Smpl Date: 09/16/2020
Test Date: 09/23/2020
Run No: SO200132

Nitrogen: 0.1112
CO2: 3.1743
Methane: 96.5203
Ethane: 0.1739
Propane: 0.0150
I-Butane: 0.0026
N-Butane: 0.0027
I-Pentane: 0.0000
N-Pentane: 0.0000
Hexane+: 0.0000

BTU: 982.8
GPM: 17.0010
SPG: 0.5871