



NMOCD REC'D
10/12/20

Well Name: NEBU 2A; CSG
API #: API # 300453109100
Source: CASING
Sample Type: GAS
Analysis No: SO200118
Cust No: 15950-11955

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT
Well Name: NEBU 2A; CSG
County/State: NM
Location:
Lease/PA/CA:
Formation:
Cust. Stn. No.: API # 300453109100

Source: CASING
Well Flowing: Y
Pressure: 87 PSIG
Flow Temp: DEG. F
Ambient Temp: 83 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 09/16/2020
Sample Time: 5.30 PM
Sampled By: ERIK SHAW
Sampled by (CO): ABC

Heat Trace: N
Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.0889	0.0882	0.0100	0.00	0.0009
CO2	1.7912	1.7771	0.3060	0.00	0.0272
Methane	93.3770	92.6407	15.8630	943.11	0.5172
Ethane	3.4440	3.4168	0.9230	60.95	0.0358
Propane	0.7769	0.7708	0.2140	19.55	0.0118
Iso-Butane	0.1039	0.1031	0.0340	3.38	0.0021
N-Butane	0.1329	0.1319	0.0420	4.34	0.0027
I-Pentane	0.0437	0.0434	0.0160	1.75	0.0011
N-Pentane	0.0310	0.0308	0.0110	1.24	0.0008
Hexane Plus	0.2105	0.2088	0.0940	11.10	0.0070
Total	100.0000	99.2116	17.5130	1045.40	0.6065

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0023
BTU/CU.FT IDEAL: 1047.8
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1050.2
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1031.9
DRY BTU @ 15.025: 1071.2
REAL SPECIFIC GRAVITY: 0.6076

CYLINDER #: 041
CYLINDER PRESSURE: 81 PSIG
ANALYSIS DATE: 09/23/2020
ANALYSIS TIME: 01:06:47 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: 09/24/2020

GC Method: C6+ Gas



BP - SOUTH BHD PROJECT
WELL ANALYSIS COMPARISON

Lease: NEBU 2A; CSG
Stn. No.: API #
Mtr. No.:

CASING

09/24/2020
15950-11955

Smpl Date: 09/16/2020
Test Date: 09/23/2020
Run No: SO200118

Nitrogen: 0.0889
CO2: 1.7912
Methane: 93.3770
Ethane: 3.4440
Propane: 0.7769
I-Butane: 0.1039
N-Butane: 0.1329
I-Pentane: 0.0437
N-Pentane: 0.0310
Hexane+: 0.2105

BTU: 1050.2
GPM: 17.5130
SPG: 0.6076



NMOCD REC'D
10/12/20

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

Analysis No: SO200117
Cust No: 15950-11950

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT
Well Name: NEBU 2A; INT
County/State: NM
Location:
Lease/PA/CA:
Formation:
Cust. Stn. No.: API # 300453109100

Source: INTERMEDIATE
Well Flowing: Y
Pressure: 88 PSIG
Flow Temp: DEG. F
Ambient Temp: 83 DEG. F
Flow Rate: MCF/D
Sample Method:
Sample Date: 09/16/2020
Sample Time: 5.35 PM
Sampled By: ERIK SHAW
Sampled by (CO): ABC

Heat Trace: N
Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.0951	0.0950	0.0100	0.00	0.0009
CO2	1.8186	1.8158	0.3110	0.00	0.0276
Methane	93.4360	93.2933	15.8730	943.70	0.5175
Ethane	3.4914	3.4861	0.9360	61.79	0.0362
Propane	0.7826	0.7814	0.2160	19.69	0.0119
Iso-Butane	0.0968	0.0967	0.0320	3.15	0.0019
N-Butane	0.1335	0.1333	0.0420	4.36	0.0027
I-Pentane	0.0394	0.0393	0.0140	1.58	0.0010
N-Pentane	0.0275	0.0275	0.0100	1.10	0.0007
Hexane Plus	0.0791	0.0790	0.0350	4.17	0.0026
Total	100.0000	99.8474	17.4790	1039.53	0.6032

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0023
BTU/CU.FT IDEAL: 1041.9
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1044.3
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1026.1
DRY BTU @ 15.025: 1065.2
REAL SPECIFIC GRAVITY: 0.6043

CYLINDER #: 1073
CYLINDER PRESSURE: 78 PSIG
ANALYSIS DATE: 09/23/2020
ANALYSIS TIME: 01:21:04 AM
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: 09/24/2020

GC Method: C6+ Gas



BP - SOUTH BHD PROJECT
WELL ANALYSIS COMPARISON

Lease: NEBU 2A; INT
Stn. No.: API #
Mtr. No.:

INTERMEDIATE

09/24/2020
15950-11950

Smpl Date: 09/16/2020
Test Date: 09/23/2020
Run No: SO200117

Nitrogen: 0.0951
CO2: 1.8186
Methane: 93.4360
Ethane: 3.4914
Propane: 0.7826
I-Butane: 0.0968
N-Butane: 0.1335
I-Pentane: 0.0394
N-Pentane: 0.0275
Hexane+: 0.0791

BTU: 1044.3
GPM: 17.4790
SPG: 0.6043



NMOCD REC'D
10/12/20

Well Name: NEBU 2A; TBG
API #: API # 300453109100
Source: TUBING
Sample Type: GAS
Analysis No: SO200119
Cust No: 15950-11960

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT
Well Name: NEBU 2A; TBG
County/State: NM
Location:
Lease/PA/CA:
Formation:
Cust. Stn. No.: API # 300453109100

Source: TUBING
Well Flowing: Y
Pressure: 81 PSIG
Flow Temp: DEG. F
Ambient Temp: 83 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 09/16/2020
Sample Time: 5.24 PM
Sampled By: ERIK SHAW
Sampled by (CO): ABC

Heat Trace: N
Remarks:

Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.0889	0.0881	0.0100	0.00	0.0009
CO2	1.7918	1.7753	0.3060	0.00	0.0272
Methane	93.3458	92.4837	15.8590	942.79	0.5170
Ethane	3.4438	3.4120	0.9230	60.94	0.0358
Propane	0.7723	0.7652	0.2130	19.43	0.0118
Iso-Butane	0.1002	0.0993	0.0330	3.26	0.0020
N-Butane	0.1341	0.1329	0.0420	4.37	0.0027
I-Pentane	0.0438	0.0434	0.0160	1.75	0.0011
N-Pentane	0.0305	0.0302	0.0110	1.22	0.0008
Hexane Plus	0.2488	0.2465	0.1110	13.11	0.0082
Total	100.0000	99.0766	17.5240	1046.89	0.6074

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0024
BTU/CU.FT IDEAL: 1049.3
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1051.8
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1033.5
DRY BTU @ 15.025: 1072.9
REAL SPECIFIC GRAVITY: 0.6086

CYLINDER #: 003
CYLINDER PRESSURE: 82 PSIG
ANALYSIS DATE: 09/23/2020
ANALYSIS TIME: 01:17:03 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: 09/24/2020

GC Method: C6+ Gas



BP - SOUTH BHD PROJECT
WELL ANALYSIS COMPARISON

Lease: NEBU 2A; TBG
Stn. No.: API #
Mtr. No.:

TUBING

09/24/2020
15950-11960

Smpl Date: 09/16/2020
Test Date: 09/23/2020
Run No: SO200119

Nitrogen: 0.0889
CO2: 1.7918
Methane: 93.3458
Ethane: 3.4438
Propane: 0.7723
I-Butane: 0.1002
N-Butane: 0.1341
I-Pentane: 0.0438
N-Pentane: 0.0305
Hexane+: 0.2488

BTU: 1051.8
GPM: 17.5240
SPG: 0.6086