



NMOCD REC'D
10/12/20

Well Name: NEBU 60-7; CSG
API #: API # 300451093800
Source: CASING
Sample Type: GAS
Analysis No: SO200131
Cust No: 15950-12020

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT
Well Name: NEBU 60-7; CSG
County/State: NM
Location:
Lease/PA/CA:
Formation:
Cust. Stn. No.: API # 300451093800

Source: CASING
Well Flowing: Y
Pressure: 53.6 PSIG
Flow Temp: DEG. F
Ambient Temp: 73 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 09/16/2020
Sample Time: 10.59 AM
Sampled By: ERIK SHAW
Sampled by (CO): ABC

Heat Trace: N
Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1699	0.1667	0.0190	0.00	0.0016
CO2	0.3623	0.3554	0.0620	0.00	0.0055
Methane	82.6502	81.0772	14.0570	834.77	0.4578
Ethane	9.0404	8.8684	2.4260	159.99	0.0939
Propane	4.0255	3.9489	1.1130	101.29	0.0613
Iso-Butane	0.8837	0.8669	0.2900	28.74	0.0177
N-Butane	1.4799	1.4517	0.4680	48.28	0.0297
I-Pentane	0.4949	0.4855	0.1820	19.80	0.0123
N-Pentane	0.2995	0.2938	0.1090	12.01	0.0075
Hexane Plus	0.5937	0.5824	0.2660	31.29	0.0196
Total	100.0000	98.0969	18.9920	1236.16	0.7070

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0035
BTU/CU.FT IDEAL: 1239.0
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1243.2
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1221.6
DRY BTU @ 15.025: 1268.1
REAL SPECIFIC GRAVITY: 0.7091

CYLINDER #: 009
CYLINDER PRESSURE: 51 PSIG
ANALYSIS DATE: 09/21/2020
ANALYSIS TIME: 04:16:54 PM
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 60-7; CSG
Stn. No.: API #
Mtr. No.:

CASING

09/24/2020
15950-12020

Smpl Date: 09/16/2020
Test Date: 09/21/2020
Run No: SO200131

Nitrogen: 0.1699
CO2: 0.3623
Methane: 82.6502
Ethane: 9.0404
Propane: 4.0255
I-Butane: 0.8837
N-Butane: 1.4799
I-Pentane: 0.4949
N-Pentane: 0.2995
Hexane+: 0.5937

BTU: 1243.2
GPM: 18.9920
SPG: 0.7091



NMOCD REC'D
10/12/20

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

Analysis No: SO200129
Cust No: 15950-12010

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT
Well Name: NEBU 60-7; INT
County/State: NM
Location:
Lease/PA/CA:
Formation:
Cust. Stn. No.: API # 300451093800

Source: INTERMEDIATE
Well Flowing: Y
Pressure: 76.1 PSIG
Flow Temp: DEG. F
Ambient Temp: 73 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 09/16/2020
Sample Time: 11.00 AM
Sampled By: ERIK SHAW
Sampled by (CO): ABC

Heat Trace: N
Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1777	0.1748	0.0200	0.00	0.0017
CO2	0.3621	0.3563	0.0620	0.00	0.0055
Methane	82.4646	81.1403	14.0260	832.89	0.4568
Ethane	8.9984	8.8539	2.4140	159.24	0.0934
Propane	4.0040	3.9397	1.1070	100.74	0.0610
Iso-Butane	0.8858	0.8716	0.2910	28.81	0.0178
N-Butane	1.5415	1.5167	0.4880	50.29	0.0309
I-Pentane	0.5709	0.5617	0.2090	22.84	0.0142
N-Pentane	0.3567	0.3510	0.1300	14.30	0.0089
Hexane Plus	0.6383	0.6280	0.2860	33.65	0.0211
Total	100.0000	98.3940	19.0330	1242.76	0.7113

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0035
BTU/CU.FT IDEAL: 1245.6
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1250.0
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1228.2
DRY BTU @ 15.025: 1275.0
REAL SPECIFIC GRAVITY: 0.7135

CYLINDER #: 1419
CYLINDER PRESSURE: 71 PSIG
ANALYSIS DATE: 09/21/2020
ANALYSIS TIME: 04:34:33 PM
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 60-7; INT
Stn. No.: API #
Mtr. No.:

INTERMEDIATE

09/24/2020
15950-12010

Smpl Date: 09/16/2020
Test Date: 09/21/2020
Run No: SO200129

Nitrogen: 0.1777
CO2: 0.3621
Methane: 82.4646
Ethane: 8.9984
Propane: 4.0040
I-Butane: 0.8858
N-Butane: 1.5415
I-Pentane: 0.5709
N-Pentane: 0.3567
Hexane+: 0.6383

BTU: 1250.0
GPM: 19.0330
SPG: 0.7135



NMOCD REC'D
10/12/20

Well Name: NEBU 60-7; TBG
API #: API # 300451093800
Source: TUBING
Sample Type: GAS
Analysis No: SO200130
Cust No: 15950-12015

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT
Well Name: NEBU 60-7; TBG
County/State: NM
Location:
Lease/PA/CA:
Formation:
Cust. Stn. No.: API # 300451093800

Source: TUBING
Well Flowing: Y
Pressure: 51.4 PSIG
Flow Temp: DEG. F
Ambient Temp: 73 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 09/16/2020
Sample Time: 10.54 AM
Sampled By: ERIK SHAW
Sampled by (CO): ABC

Heat Trace: N
Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.0807	0.0794	0.0090	0.00	0.0008
CO2	1.8093	1.7801	0.3090	0.00	0.0275
Methane	95.7877	94.2405	16.2710	967.46	0.5306
Ethane	1.9677	1.9359	0.5270	34.82	0.0204
Propane	0.2439	0.2400	0.0670	6.14	0.0037
Iso-Butane	0.0481	0.0473	0.0160	1.56	0.0010
N-Butane	0.0227	0.0223	0.0070	0.74	0.0005
I-Pentane	0.0102	0.0100	0.0040	0.41	0.0003
N-Pentane	0.0051	0.0050	0.0020	0.20	0.0001
Hexane Plus	0.0246	0.0242	0.0110	1.30	0.0008
Total	100.0000	98.3847	17.2230	1012.63	0.5856

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0022
BTU/CU.FT IDEAL: 1015.0
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1017.2
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 999.5
DRY BTU @ 15.025: 1037.6
REAL SPECIFIC GRAVITY: 0.5867

CYLINDER #: 1088
CYLINDER PRESSURE: 48 PSIG
ANALYSIS DATE: 09/21/2020
ANALYSIS TIME: 04:16:06 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: 09/24/2020

GC Method: C6+ Gas



BP - SOUTH BHD PROJECT
WELL ANALYSIS COMPARISON

Lease: NEBU 60-7; TBG
Stn. No.: API #
Mtr. No.:

TUBING

09/24/2020
15950-12015

Smpl Date: 09/16/2020
Test Date: 09/21/2020
Run No: SO200130

Nitrogen: 0.0807
CO2: 1.8093
Methane: 95.7877
Ethane: 1.9677
Propane: 0.2439
I-Butane: 0.0481
N-Butane: 0.0227
I-Pentane: 0.0102
N-Pentane: 0.0051
Hexane+: 0.0246

BTU: 1017.2
GPM: 17.2230
SPG: 0.5867