



NMOCD REC'D
10/12/20

Well Name: NEBU 407; BHD
API #: API # 300392421700
Source: BRADENHEAD
Sample Type: GAS
Analysis No: SO200021
Cust No: 15950-11620

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT
Well Name: NEBU 407; BHD
County/State: SAN JUAN NM
Location:
Lease/PA/CA:
Formation:
Cust. Stn. No.: API # 300392421700

Source: BRADENHEAD
Well Flowing: Y
Pressure: 34 PSIG
Flow Temp: DEG. F
Ambient Temp: 91 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 06/03/2020
Sample Time: 1.18 PM
Sampled By: ERIK SHAW
Sampled by (CO): ABC

Heat Trace:

Remarks: PRESSURED WITH HELIUM TO 30LBS.

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	82.7621	3.2600	9.1080	0.00	0.8005
CO2	0.4138	0.0163	0.0710	0.00	0.0063
Methane	16.7124	0.6583	2.8340	168.80	0.0926
Ethane	0.0584	0.0023	0.0160	1.03	0.0006
Propane	0.0203	0.0008	0.0060	0.51	0.0003
Iso-Butane	0.0000	0.0000	0.0000	0.00	0.0000
N-Butane	0.0000	0.0000	0.0000	0.00	0.0000
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	0.0330	0.0013	0.0150	1.74	0.0011
Total	100.0000	3.9390	12.0500	172.08	0.9013

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0005
BTU/CU.FT IDEAL: 172.5
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 172.6
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 169.6
DRY BTU @ 15.025: 176.1
REAL SPECIFIC GRAVITY: 0.9014

CYLINDER #: 6036
CYLINDER PRESSURE: 24 PSIG
ANALYSIS DATE: 06/09/2020
ANALYSIS TIME: 10:16:30 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: 06/18/2020

GC Method: C6+ Gas



BP - SOUTH BHD PROJECT
WELL ANALYSIS COMPARISON

Lease: NEBU 407; BHD
Stn. No.: API #
Mtr. No.:

BRADENHEAD

06/18/2020
15950-11620

Smpl Date: 06/03/2020
Test Date: 06/09/2020
Run No: SO200021

Nitrogen: 82.7621
CO2: 0.4138
Methane: 16.7124
Ethane: 0.0584
Propane: 0.0203
I-Butane: 0.0000
N-Butane: 0.0000
I-Pentane: 0.0000
N-Pentane: 0.0000
Hexane+: 0.0330

BTU: 172.6
GPM: 12.0500
SPG: 0.9014



NMOCD REC'D
10/12/20

Well Name: NEBU 407; CSG
API #: API # 300392421700
Source: CASING
Sample Type: GAS
Analysis No: SO200025
Cust No: 15950-11645

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT
Well Name: NEBU 407; CSG
County/State: SAN JUAN NM
Location:
Lease/PA/CA:
Formation:
Cust. Stn. No.: API # 300392421700

Source: CASING
Well Flowing: Y
Pressure: PSIG
Flow Temp: DEG. F
Ambient Temp: 63 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 06/10/2020
Sample Time: 9.05 AM
Sampled By: ERIK SHAW
Sampled by (CO): ABC

Heat Trace: N
Remarks: PRESSURED WITH HELIUM TO 30LBS.

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	4.3388	1.2232	0.4790	0.00	0.0420
CO2	25.7233	7.2520	4.4010	0.00	0.3909
Methane	69.0276	19.4605	11.7310	697.18	0.3823
Ethane	0.7701	0.2171	0.2060	13.63	0.0080
Propane	0.0777	0.0219	0.0210	1.96	0.0012
Iso-Butane	0.0433	0.0122	0.0140	1.41	0.0009
N-Butane	0.0110	0.0031	0.0030	0.36	0.0002
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	0.0082	0.0023	0.0040	0.43	0.0003
Total	100.0000	28.1923	16.8590	714.96	0.8257

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0027
BTU/CU.FT IDEAL: 716.6
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 718.6
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 706.1
DRY BTU @ 15.025: 733.0
REAL SPECIFIC GRAVITY: 0.8276

CYLINDER #: 036
CYLINDER PRESSURE: 10 PSIG
ANALYSIS DATE: 06/16/2020
ANALYSIS TIME: 10:45:56 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: 06/18/2020

GC Method: C6+ Gas



BP - SOUTH BHD PROJECT
WELL ANALYSIS COMPARISON

Lease: NEBU 407; CSG
Stn. No.: API #
Mtr. No.:

CASING

06/18/2020
15950-11645

Smpl Date: 06/10/2020
Test Date: 06/16/2020
Run No: SO200025

Nitrogen: 4.3388
CO2: 25.7233
Methane: 69.0276
Ethane: 0.7701
Propane: 0.0777
I-Butane: 0.0433
N-Butane: 0.0110
I-Pentane: 0.0000
N-Pentane: 0.0000
Hexane+: 0.0082

BTU: 718.6
GPM: 16.8590
SPG: 0.8276