



NMOCD REC'D
10/12/20

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

Analysis No: SO200137
Cust No: 15950-12050

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT
Well Name: NEBU 348; INT
County/State: NM
Location:
Lease/PA/CA:
Formation:
Cust. Stn. No.: API # 300453420500

Source: INTERMEDIATE
Well Flowing:
Pressure: 23 PSIG
Flow Temp: DEG. F
Ambient Temp: 70 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 09/16/2020
Sample Time: 6.20 PM
Sampled By: SEAN CASAUS
Sampled by (CO): ABC

Heat Trace:
Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	2.4481	1.3519	0.2700	0.00	0.0237
CO2	0.0181	0.0100	0.0030	0.00	0.0003
Methane	87.3464	48.2349	14.8430	882.20	0.4838
Ethane	6.7445	3.7245	1.8080	119.36	0.0700
Propane	2.6002	1.4359	0.7180	65.42	0.0396
Iso-Butane	0.3620	0.1999	0.1190	11.77	0.0073
N-Butane	0.3461	0.1911	0.1090	11.29	0.0069
I-Pentane	0.0630	0.0348	0.0230	2.52	0.0016
N-Pentane	0.0254	0.0140	0.0090	1.02	0.0006
Hexane Plus	0.0462	0.0255	0.0210	2.44	0.0015
Total	100.0000	55.2225	17.9230	1096.02	0.6353

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0026
BTU/CU.FT IDEAL: 1098.6
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1101.4
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1082.2
DRY BTU @ 15.025: 1123.5
REAL SPECIFIC GRAVITY: 0.6367

CYLINDER #: 001
CYLINDER PRESSURE: 23 PSIG
ANALYSIS DATE: 09/21/2020
ANALYSIS TIME: 02:56:34 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 348; INT
Stn. No.: API #
Mtr. No.:

INTERMEDIATE

09/24/2020
15950-12050

Smpl Date: 09/16/2020
Test Date: 09/21/2020
Run No: SO200137

Nitrogen: 2.4481
CO2: 0.0181
Methane: 87.3464
Ethane: 6.7445
Propane: 2.6002
I-Butane: 0.3620
N-Butane: 0.3461
I-Pentane: 0.0630
N-Pentane: 0.0254
Hexane+: 0.0462

BTU: 1101.4
GPM: 17.9230
SPG: 0.6367



NMOCD REC'D
10/12/20

Well Name: NEBU 348; TBG
API #: API # 300453420500
Source: TUBING
Sample Type: GAS
Analysis No: SO200138
Cust No: 15950-12055

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT
Well Name: NEBU 348; TBG
County/State: NM
Location:
Lease/PA/CA:
Formation:
Cust. Stn. No.: API # 300453420500

Source: TUBING
Well Flowing: Y
Pressure: 53 PSIG
Flow Temp: DEG. F
Ambient Temp: 70 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 09/16/2020
Sample Time: 6.25 PM
Sampled By: SEAN CASAUS
Sampled by (CO): ABC

Heat Trace: N
Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.0805	0.0796	0.0090	0.00	0.0008
CO2	1.5708	1.5533	0.2690	0.00	0.0239
Methane	95.6401	94.5742	16.2450	965.96	0.5298
Ethane	2.1014	2.0780	0.5630	37.19	0.0218
Propane	0.3552	0.3512	0.0980	8.94	0.0054
Iso-Butane	0.0803	0.0794	0.0260	2.61	0.0016
N-Butane	0.0531	0.0525	0.0170	1.73	0.0011
I-Pentane	0.0254	0.0251	0.0090	1.02	0.0006
N-Pentane	0.0134	0.0133	0.0050	0.54	0.0003
Hexane Plus	0.0798	0.0789	0.0360	4.21	0.0026
Total	100.0000	98.8855	17.2770	1022.19	0.5879

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0022
BTU/CU.FT IDEAL: 1024.6
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1026.8
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1008.9
DRY BTU @ 15.025: 1047.4
REAL SPECIFIC GRAVITY: 0.589

CYLINDER #: 018
CYLINDER PRESSURE: 53 PSIG
ANALYSIS DATE: 09/21/2020
ANALYSIS TIME: 02:59:00 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 348; TBG
Stn. No.: API #
Mtr. No.:

TUBING

09/24/2020
15950-12055

Smpl Date: 09/16/2020
Test Date: 09/21/2020
Run No: SO200138

Nitrogen: 0.0805
CO2: 1.5708
Methane: 95.6401
Ethane: 2.1014
Propane: 0.3552
I-Butane: 0.0803
N-Butane: 0.0531
I-Pentane: 0.0254
N-Pentane: 0.0134
Hexane+: 0.0798

BTU: 1026.8
GPM: 17.2770
SPG: 0.5890