



NMOCD REC'D
10/12/20

Well Name: NEIL A 7A
API #: API #300452246300
Source: BRADENHEAD
Sample Type: GAS
Analysis No: SO200075
Cust No: 15950-10155

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT
Well Name: NEIL A 7A
County/State: NM
Location:
Lease/PA/CA:
Formation: PC/MV
Cust. Stn. No.: API #300452246300

Source: BRADENHEAD
Well Flowing:
Pressure: 80 PSIG
Flow Temp: DEG. F
Ambient Temp: 102 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 07/15/2020
Sample Time: 1.20 PM
Sampled By: SEAN C.
Sampled by (CO): ABC

Heat Trace: N
Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.6538	0.6332	0.0720	0.00	0.0063
CO2	0.0000	0.0000	0.0000	0.00	0.0000
Methane	87.5462	84.7926	14.8800	884.22	0.4849
Ethane	7.0719	6.8495	1.8960	125.15	0.0734
Propane	2.9070	2.8156	0.8030	73.14	0.0443
Iso-Butane	0.4961	0.4805	0.1630	16.13	0.0100
N-Butane	0.6914	0.6697	0.2190	22.56	0.0139
I-Pentane	0.2265	0.2194	0.0830	9.06	0.0056
N-Pentane	0.1509	0.1462	0.0550	6.05	0.0038
Hexane Plus	0.2562	0.2481	0.1150	13.50	0.0085
Total	100.0000	96.8548	18.2860	1149.81	0.6506

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0028
BTU/CU.FT IDEAL: 1152.5
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1155.7
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1135.6
DRY BTU @ 15.025: 1178.8
REAL SPECIFIC GRAVITY: 0.6522

CYLINDER #: 034
CYLINDER PRESSURE: 72 PSIG
ANALYSIS DATE: 07/20/2020
ANALYSIS TIME: 09:41:17 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: 07/22/2020

GC Method: C6+ Gas



BP - SOUTH BHD PROJECT
WELL ANALYSIS COMPARISON

Lease:	NEIL A 7A	BRADENHEAD	07/22/2020
Stn. No.:	API	PC/MV	15950-10155
Mtr. No.:			

Smpl Date:	07/15/2020	06/21/2017
Test Date:	07/20/2020	06/21/2017
Run No:	SO200075	SO170034
Nitrogen:	0.6538	0.6910
CO2:	0.0000	0.0100
Methane:	87.5462	87.8218
Ethane:	7.0719	6.8621
Propane:	2.9070	2.7921
I-Butane:	0.4961	0.4860
N-Butane:	0.6914	0.6740
I-Pentane:	0.2265	0.2260
N-Pentane:	0.1509	0.1540
Hexane+:	0.2562	0.2830
BTU:	1155.7	1152.5
GPM:	18.2860	18.2530
SPG:	0.6522	0.6507



NMOCD REC'D
10/12/20

Well Name: NEIL A 7A; TBG
API #: API #300452246300
Source: TUBING
Sample Type: GAS
Analysis No: SO200076
Cust No: 15950-10165

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT
Well Name: NEIL A 7A; TBG
County/State: NM
Location:
Lease/PA/CA:
Formation: PC/MV
Cust. Stn. No.: API #300452246300

Source: TUBING
Well Flowing: Y
Pressure: 30 PSIG
Flow Temp: DEG. F
Ambient Temp: 102 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 07/15/2020
Sample Time: 1.15 PM
Sampled By: SEAN C.
Sampled by (CO): ABC

Heat Trace: N
Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.2049	0.2005	0.0230	0.00	0.0020
CO2	1.4608	1.4296	0.2500	0.00	0.0222
Methane	81.0445	79.3147	13.7870	818.55	0.4489
Ethane	9.2259	9.0290	2.4760	163.27	0.0958
Propane	4.1690	4.0800	1.1530	104.90	0.0635
Iso-Butane	0.7673	0.7509	0.2520	24.95	0.0154
N-Butane	1.1908	1.1654	0.3770	38.85	0.0239
I-Pentane	0.4456	0.4361	0.1640	17.83	0.0111
N-Pentane	0.3516	0.3441	0.1280	14.09	0.0088
Hexane Plus	1.1396	1.1153	0.5100	60.07	0.0377
Total	100.0000	97.8656	19.1200	1242.51	0.7292

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0037
BTU/CU.FT IDEAL: 1245.4
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1249.9
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1228.2
DRY BTU @ 15.025: 1274.9
REAL SPECIFIC GRAVITY: 0.7316

CYLINDER #: 46
CYLINDER PRESSURE: 26 PSIG
ANALYSIS DATE: 07/20/2020
ANALYSIS TIME: 10:16:18 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: 07/22/2020

GC Method: C6+ Gas



BP - SOUTH BHD PROJECT
WELL ANALYSIS COMPARISON

Lease: NEIL A 7A; TBG
Stn. No.: API
Mtr. No.:

TUBING
PC/MV

07/22/2020
15950-10165

Smpl Date:	07/15/2020	06/21/2017
Test Date:	07/20/2020	06/21/2017
Run No:	SO200076	SO170036
Nitrogen:	0.2049	0.2207
CO2:	1.4608	1.4269
Methane:	81.0445	81.4335
Ethane:	9.2259	9.0026
Propane:	4.1690	3.9400
I-Butane:	0.7673	0.7235
N-Butane:	1.1908	1.1427
I-Pentane:	0.4456	0.4373
N-Pentane:	0.3516	0.3416
Hexane+:	1.1396	1.3311
BTU:	1249.9	1250.6
GPM:	19.1200	19.1050
SPG:	0.7316	0.7317