



NMOCD REC'D
10/12/20

Well Name: SHAW GC 1C; CSG
API #: API # 300453218400
Source: CASING
Sample Type: GAS
Analysis No: SO200159
Cust No: 15950-12155

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT
Well Name: SHAW GC 1C; CSG
County/State: SAN JUAN NM
Location:
Lease/PA/CA:
Formation:
Cust. Stn. No.: API # 300453218400
85339
Heat Trace: N
Remarks: PRESSURED WITH HELIUM TO 30LBS. CO-MINGLE TBG / CSG

Source: CASING
Well Flowing: Y
Pressure: 8 PSIG
Flow Temp: DEG. F
Ambient Temp: 84 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 09/23/2020
Sample Time: 6.20 PM
Sampled By: TONY FELIX
Sampled by (CO): ABC

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1580	0.0744	0.0170	0.00	0.0015
CO2	1.6152	0.7604	0.2770	0.00	0.0245
Methane	83.7201	39.4125	14.2380	845.57	0.4637
Ethane	7.4674	3.5154	2.0030	132.15	0.0775
Propane	3.4525	1.6253	0.9540	86.87	0.0526
Iso-Butane	0.6857	0.3228	0.2250	22.30	0.0138
N-Butane	0.9963	0.4690	0.3150	32.50	0.0200
I-Pentane	0.4015	0.1890	0.1470	16.06	0.0100
N-Pentane	0.3004	0.1414	0.1090	12.04	0.0075
Hexane Plus	1.2029	0.5663	0.5380	63.41	0.0398
Total	100.0000	47.0765	18.8230	1210.90	0.7109

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0034
BTU/CU.FT IDEAL: 1213.7
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1217.8
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1196.6
DRY BTU @ 15.025: 1242.2
REAL SPECIFIC GRAVITY: 0.7131

CYLINDER #: 1096
CYLINDER PRESSURE: PSIG
ANALYSIS DATE: 09/28/2020
ANALYSIS TIME: 03:09:37 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: 09/29/2020

GC Method: C6+ Gas



BP - SOUTH BHD PROJECT
WELL ANALYSIS COMPARISON

Lease: SHAW GC 1C; CSG
Stn. No.: API #
Mtr. No.: 85339

CASING

09/29/2020
15950-12155

Smpl Date: 09/23/2020
Test Date: 09/28/2020
Run No: SO200159

Nitrogen: 0.1580
CO2: 1.6152
Methane: 83.7201
Ethane: 7.4674
Propane: 3.4525
I-Butane: 0.6857
N-Butane: 0.9963
I-Pentane: 0.4015
N-Pentane: 0.3004
Hexane+: 1.2029

BTU: 1217.8
GPM: 18.8230
SPG: 0.7131



NMOCD REC'D
10/12/20

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

Analysis No: SO200160
Cust No: 15950-12160

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT
Well Name: SHAW GC 1C; INT
County/State: SAN JUAN NM
Location:
Lease/PA/CA:
Formation:
Cust. Stn. No.: API # 300453218400
85339

Source: INTERMEDIATE
Well Flowing:
Pressure: 227 PSIG
Flow Temp: DEG. F
Ambient Temp: 84 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 09/23/2020
Sample Time: 6.10 PM
Sampled By: TONY FELIX
Sampled by (CO): ABC

Heat Trace:
Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1068	0.1037	0.0120	0.00	0.0010
CO2	0.0031	0.0030	0.0010	0.00	0.0000
Methane	90.3383	87.6945	15.3560	912.42	0.5004
Ethane	3.0937	3.0032	0.8300	54.75	0.0321
Propane	3.4919	3.3897	0.9650	87.86	0.0532
Iso-Butane	0.8690	0.8436	0.2850	28.26	0.0174
N-Butane	1.0993	1.0671	0.3470	35.86	0.0221
I-Pentane	0.3783	0.3672	0.1390	15.14	0.0094
N-Pentane	0.2655	0.2577	0.0960	10.64	0.0066
Hexane Plus	0.3541	0.3437	0.1580	18.66	0.0117
Total	100.0000	97.0734	18.1890	1163.59	0.6540

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0029
BTU/CU.FT IDEAL: 1166.3
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1169.7
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1149.3
DRY BTU @ 15.025: 1193.1
REAL SPECIFIC GRAVITY: 0.6556

CYLINDER #: 1426
CYLINDER PRESSURE: 216 PSIG
ANALYSIS DATE: 09/28/2020
ANALYSIS TIME: 03:30:47 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: 09/29/2020

GC Method: C6+ Gas



BP - SOUTH BHD PROJECT
WELL ANALYSIS COMPARISON

Lease: SHAW GC 1C; INT
Stn. No.: API #
Mtr. No.: 85339

INTERMEDIATE

09/29/2020
15950-12160

Smpl Date: 09/23/2020
Test Date: 09/28/2020
Run No: SO200160

Nitrogen: 0.1068
CO2: 0.0031
Methane: 90.3383
Ethane: 3.0937
Propane: 3.4919
I-Butane: 0.8690
N-Butane: 1.0993
I-Pentane: 0.3783
N-Pentane: 0.2655
Hexane+: 0.3541

BTU: 1169.7
GPM: 18.1890
SPG: 0.6556