



Well Name: JAQUEZ GC B 003; CSG
 API #: API # 300450867500
 Source: CASING
 Sample Type: GAS
 Analysis No: SO200033
 Cust No: 15950-11670

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT
 Well Name: JAQUEZ GC B 003; CSG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA:
 Formation:
 Cust. Stn. No.: API # 300450867500

Source: CASING
 Well Flowing: Y
 Pressure: 135 PSIG
 Flow Temp: 61.7 DEG. F
 Ambient Temp: 60 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 06/18/2020
 Sample Time: 8.50 AM
 Sampled By: CELIA L.
 Sampled by (CO): ABC

Heat Trace: N
 Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.2400	0.2359	0.0260	0.00	0.0023
CO2	0.8928	0.8776	0.1530	0.00	0.0136
Methane	80.4541	79.0857	13.6850	812.59	0.4456
Ethane	10.6255	10.4448	2.8510	188.04	0.1103
Propane	4.0569	3.9879	1.1210	102.08	0.0618
Iso-Butane	0.5994	0.5892	0.1970	19.49	0.0120
N-Butane	1.2658	1.2443	0.4000	41.29	0.0254
I-Pentane	0.5626	0.5530	0.2060	22.51	0.0140
N-Pentane	0.4793	0.4711	0.1740	19.21	0.0119
Hexane Plus	0.8236	0.8096	0.3690	43.41	0.0273
Total	100.0000	98.2991	19.1820	1248.62	0.7242

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0036
 BTU/CU.FT IDEAL: 1251.5
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1256.0
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1234.1
 DRY BTU @ 15.025: 1281.2
 REAL SPECIFIC GRAVITY: 0.7266

CYLINDER #: 37
 CYLINDER PRESSURE: 125 PSIG
 ANALYSIS DATE: 06/23/2020
 ANALYSIS TIME: 11:15:42 AM
 ANALYSIS RUN BY: RICHARD WILSON

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: 06/25/2020

GC Method: C6+ Gas



BP - SOUTH BHD PROJECT
WELL ANALYSIS COMPARISON

Lease: JAQUEZ GC B 003; CSG
Stn. No.: API #
Mtr. No.:

CASING

06/25/2020
15950-11670

Smpl Date: 06/18/2020
Test Date: 06/23/2020
Run No: SO200033

Nitrogen: 0.2400
CO2: 0.8928
Methane: 80.4541
Ethane: 10.6255
Propane: 4.0569
I-Butane: 0.5994
N-Butane: 1.2658
I-Pentane: 0.5626
N-Pentane: 0.4793
Hexane+: 0.8236

BTU: 1256.0
GPM: 19.1820
SPG: 0.7266



NMOCD REC'D
10/12/20

Well Name: JAQUEZ GC B 003; BHD
API #: API # 300450867500
Source: BRADENHEAD
Sample Type: GAS
Analysis No: SO200032
Cust No: 15950-11665

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT
Well Name: JAQUEZ GC B 003; BHD
County/State: SAN JUAN NM
Location:
Lease/PA/CA:
Formation:
Cust. Stn. No.: API # 300450867500

Source: BRADENHEAD
Well Flowing: Y
Pressure: 6 PSIG
Flow Temp: 70.1 DEG. F
Ambient Temp: 60 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 06/18/2020
Sample Time: 9.05 AM
Sampled By: CELIA L.
Sampled by (CO): ABC

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

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	99.3670	32.8223	10.9330	0.00	0.9611
CO2	0.0179	0.0059	0.0030	0.00	0.0003
Methane	0.3063	0.1012	0.0520	3.09	0.0017
Ethane	0.0142	0.0047	0.0040	0.25	0.0001
Propane	0.0000	0.0000	0.0000	0.00	0.0000
Iso-Butane	0.1402	0.0463	0.0460	4.56	0.0028
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	0.1544	0.0510	0.0690	8.14	0.0051
Total	100.0000	33.0314	11.1070	16.04	0.9711

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0003
BTU/CU.FT IDEAL: 16.1
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 16.1
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 15.8
DRY BTU @ 15.025: 16.4
REAL SPECIFIC GRAVITY: 0.971

CYLINDER #: 15
CYLINDER PRESSURE: PSIG
ANALYSIS DATE: 06/23/2020
ANALYSIS TIME: 11:08:11 AM
ANALYSIS RUN BY: RICHARD WILSON

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: 06/25/2020

GC Method: C6+ Gas



BP - SOUTH BHD PROJECT
WELL ANALYSIS COMPARISON

Lease: JAQUEZ GC B 003; BHD
Stn. No.: API #
Mtr. No.:

BRADENHEAD

06/25/2020
15950-11665

Smpl Date: 06/18/2020
Test Date: 06/23/2020
Run No: SO200032

Nitrogen: 99.3670
CO2: 0.0179
Methane: 0.3063
Ethane: 0.0142
Propane: 0.0000
I-Butane: 0.1402
N-Butane: 0.0000
I-Pentane: 0.0000
N-Pentane: 0.0000
Hexane+: 0.1544

BTU: 16.1
GPM: 11.1070
SPG: 0.9710



Well Name: JAQUEZ GC B 003; TBG
API #: API # 300450867500
Source: TUBING
Sample Type: GAS
Analysis No: SO200034
Cust No: 15950-11675

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT
Well Name: JAQUEZ GC B 003; TBG
County/State: SAN JUAN NM
Location:
Lease/PA/CA:
Formation:
Cust. Stn. No.: API # 300450867500

Source: TUBING
Well Flowing: Y
Pressure: 125 PSIG
Flow Temp: 50.1 DEG. F
Ambient Temp: 60 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 06/18/2020
Sample Time: 8.44 AM
Sampled By: CELIA L.
Sampled by (CO): ABC

Heat Trace: N
Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1818	0.1812	0.0200	0.00	0.0018
CO2	2.0194	2.0131	0.3460	0.00	0.0307
Methane	86.7331	86.4617	14.7440	876.00	0.4804
Ethane	6.5062	6.4859	1.7450	115.14	0.0675
Propane	2.3800	2.3726	0.6570	59.88	0.0362
Iso-Butane	0.5739	0.5721	0.1880	18.66	0.0115
N-Butane	0.5587	0.5570	0.1770	18.23	0.0112
I-Pentane	0.2900	0.2891	0.1060	11.60	0.0072
N-Pentane	0.1656	0.1651	0.0600	6.64	0.0041
Hexane Plus	0.5913	0.5895	0.2640	31.17	0.0196
Total	100.0000	99.6873	18.3070	1137.33	0.6703

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.003
BTU/CU.FT IDEAL: 1140.0
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1143.3
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1123.4
DRY BTU @ 15.025: 1166.2
REAL SPECIFIC GRAVITY: 0.672

CYLINDER #: 25
CYLINDER PRESSURE: 123 PSIG
ANALYSIS DATE: 06/23/2020
ANALYSIS TIME: 10:59:02 AM
ANALYSIS RUN BY: RICHARD WILSON

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: 06/25/2020

GC Method: C6+ Gas



BP - SOUTH BHD PROJECT
WELL ANALYSIS COMPARISON

Lease: JAQUEZ GC B 003; TBG
Stn. No.: API #
Mtr. No.:

TUBING

06/25/2020
15950-11675

Smpl Date: 06/18/2020
Test Date: 06/23/2020
Run No: SO200034

Nitrogen: 0.1818
CO2: 2.0194
Methane: 86.7331
Ethane: 6.5062
Propane: 2.3800
I-Butane: 0.5739
N-Butane: 0.5587
I-Pentane: 0.2900
N-Pentane: 0.1656
Hexane+: 0.5913

BTU: 1143.3
GPM: 18.3070
SPG: 0.6720