



NMOCD REC'D
10/12/20

Well Name: JAQUEZ GC F 1M ; BHD
API #: API #300453105000
Source: BRADENHEAD
Sample Type: GAS
Analysis No: SO200166
Cust No: 15950-12190

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT
Well Name: JAQUEZ GC F 1M ; BHD
County/State: NM
Location:
Lease/PA/CA:
Formation:
Cust. Stn. No.: API #300453105000
98582

Source: BRADENHEAD
Well Flowing: N
Pressure: 25 PSIG
Flow Temp: DEG. F
Ambient Temp: 91 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 09/24/2020
Sample Time: 4.45 PM
Sampled By: SEAN C.
Sampled by (CO): ABC

Heat Trace: N
Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.9845	0.9692	0.1090	0.00	0.0095
CO2	0.0219	0.0216	0.0040	0.00	0.0003
Methane	91.4938	90.0739	15.5540	924.09	0.5068
Ethane	2.3378	2.3015	0.6270	41.37	0.0243
Propane	1.7213	1.6946	0.4760	43.31	0.0262
Iso-Butane	0.4679	0.4606	0.1540	15.22	0.0094
N-Butane	0.6551	0.6449	0.2070	21.37	0.0131
I-Pentane	0.3605	0.3549	0.1320	14.42	0.0090
N-Pentane	0.3304	0.3253	0.1200	13.24	0.0082
Hexane Plus	1.6268	1.6016	0.7270	85.75	0.0538
Total	100.0000	98.4481	18.1100	1158.77	0.6607

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.003
BTU/CU.FT IDEAL: 1161.5
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1164.9
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1144.6
DRY BTU @ 15.025: 1188.2
REAL SPECIFIC GRAVITY: 0.6624

CYLINDER #: 1033
CYLINDER PRESSURE: 9 PSIG
ANALYSIS DATE: 09/30/2020
ANALYSIS TIME: 03:41:19 PM
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: 10/06/2020

GC Method: C6+ Gas



BP - SOUTH BHD PROJECT
WELL ANALYSIS COMPARISON

Lease: JAQUEZ GC F 1M ; BHD
Stn. No.: API
Mtr. No.: 98582

BRADENHEAD

10/06/2020
15950-12190

Smpl Date: 09/24/2020
Test Date: 09/30/2020
Run No: SO200166
Nitrogen: 0.9845
CO2: 0.0219
Methane: 91.4938
Ethane: 2.3378
Propane: 1.7213
I-Butane: 0.4679
N-Butane: 0.6551
I-Pentane: 0.3605
N-Pentane: 0.3304
Hexane+: 1.6268
BTU: 1164.9
GPM: 18.1100
SPG: 0.6624



NMOCD REC'D
10/12/20

Well Name: JAQUEZ GC F 1M ; CSG
API #: API #300453105000
Source: CASING
Sample Type: GAS
Analysis No: SO200169
Cust No: 15950-12205

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT
Well Name: JAQUEZ GC F 1M ; CSG
County/State: NM
Location:
Lease/PA/CA:
Formation:
Cust. Stn. No.: API #300453105000
98582

Source: CASING
Well Flowing: Y
Pressure: 13 PSIG
Flow Temp: DEG. F
Ambient Temp: 91 DEG. F
Flow Rate: MCF/D
Sample Method:
Sample Date: 09/24/2020
Sample Time: 4.55 PM
Sampled By: SEAN C.
Sampled by (CO): ABC

Heat Trace: N
Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	2.3693	2.3134	0.2610	0.00	0.0229
CO2	2.3041	2.2497	0.3940	0.00	0.0350
Methane	81.3911	79.4697	13.8400	822.05	0.4508
Ethane	7.7402	7.5575	2.0760	136.98	0.0804
Propane	3.0395	2.9677	0.8400	76.48	0.0463
Iso-Butane	0.5299	0.5174	0.1740	17.23	0.0106
N-Butane	0.8795	0.8587	0.2780	28.69	0.0176
I-Pentane	0.3416	0.3335	0.1250	13.67	0.0085
N-Pentane	0.2726	0.2662	0.0990	10.93	0.0068
Hexane Plus	1.1322	1.1055	0.5060	59.68	0.0375
Total	100.0000	97.6393	18.5930	1165.70	0.7164

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0033
BTU/CU.FT IDEAL: 1168.4
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1172.3
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1151.9
DRY BTU @ 15.025: 1195.8
REAL SPECIFIC GRAVITY: 0.7185

CYLINDER #: 28
CYLINDER PRESSURE: 10 PSIG
ANALYSIS DATE: 09/30/2020
ANALYSIS TIME: 03:04:05 PM
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: 10/06/2020

GC Method: C6+ Gas



BP - SOUTH BHD PROJECT
WELL ANALYSIS COMPARISON

Lease: JAQUEZ GC F 1M ; CSG
Stn. No.: API
Mtr. No.: 98582

CASING

10/06/2020
15950-12205

Smpl Date: 09/24/2020
Test Date: 09/30/2020
Run No: SO200169

Nitrogen: 2.3693
CO2: 2.3041
Methane: 81.3911
Ethane: 7.7402
Propane: 3.0395
I-Butane: 0.5299
N-Butane: 0.8795
I-Pentane: 0.3416
N-Pentane: 0.2726
Hexane+: 1.1322

BTU: 1172.3
GPM: 18.5930
SPG: 0.7185



NMOCD REC'D
10/12/20

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

Analysis No: SO200167
Cust No: 15950-12195

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT
Well Name: JAQUEZ GC F 1M : INT
County/State: NM
Location:
Lease/PA/CA:
Formation:
Cust. Stn. No.: API #300453105000
98582

Source: INTERMEDIATE
Well Flowing: N
Pressure: 9 PSIG
Flow Temp: DEG. F
Ambient Temp: 91 DEG. F
Flow Rate: MCF/D
Sample Method:
Sample Date: 09/24/2020
Sample Time: 4.50 PM
Sampled By: SEAN C.
Sampled by (CO): ABC

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

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.3521	1.2253	0.1490	0.00	0.0131
CO2	0.0000	0.0000	0.0000	0.00	0.0000
Methane	91.4735	82.8933	15.5420	923.88	0.5067
Ethane	4.2004	3.8064	1.1260	74.33	0.0436
Propane	1.7068	1.5467	0.4710	42.94	0.0260
Iso-Butane	0.3283	0.2975	0.1080	10.68	0.0066
N-Butane	0.4194	0.3801	0.1330	13.68	0.0084
I-Pentane	0.1629	0.1476	0.0600	6.52	0.0041
N-Pentane	0.1076	0.0975	0.0390	4.31	0.0027
Hexane Plus	0.2490	0.2256	0.1110	13.12	0.0082
Total	100.0000	90.6200	17.7390	1089.48	0.6193

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0025
BTU/CU.FT IDEAL: 1092.0
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1094.7
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1075.7
DRY BTU @ 15.025: 1116.6
REAL SPECIFIC GRAVITY: 0.6206

CYLINDER #: 1091
CYLINDER PRESSURE: PSIG
ANALYSIS DATE: 09/30/2020
ANALYSIS TIME: 03:27:52 PM
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: 10/06/2020

GC Method: C6+ Gas



BP - SOUTH BHD PROJECT
WELL ANALYSIS COMPARISON

Lease: JAQUEZ GC F 1M : INT
Stn. No.: API
Mtr. No.: 98582

INTERMEDIATE

10/06/2020
15950-12195

Smpl Date: 09/24/2020
Test Date: 09/30/2020
Run No: SO200167

Nitrogen: 1.3521
CO2: 0.0000
Methane: 91.4735
Ethane: 4.2004
Propane: 1.7068
I-Butane: 0.3283
N-Butane: 0.4194
I-Pentane: 0.1629
N-Pentane: 0.1076
Hexane+: 0.2490

BTU: 1094.7
GPM: 17.7390
SPG: 0.6206



NMOCD REC'D
10/12/20

Well Name: JAQUEZ GC F 1M ; TBG
API #: API #300453105000
Source: TUBING
Sample Type: GAS
Analysis No: SO200168
Cust No: 15950-12200

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT
Well Name: JAQUEZ GC F 1M ; TBG
County/State: NM
Location:
Lease/PA/CA:
Formation:
Cust. Stn. No.: API #300453105000
98582

Source: TUBING
Well Flowing: Y
Pressure: 13 PSIG
Flow Temp: DEG. F
Ambient Temp: 91 DEG. F
Flow Rate: MCF/D
Sample Method:
Sample Date: 09/24/2020
Sample Time: 5.00 PM
Sampled By: SEAN C.
Sampled by (CO): ABC

Heat Trace: N
Remarks:

Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	2.9930	2.9218	0.3300	0.00	0.0289
CO2	2.2627	2.2088	0.3870	0.00	0.0344
Methane	80.8566	78.9319	13.7490	816.65	0.4479
Ethane	7.7191	7.5353	2.0710	136.60	0.0801
Propane	3.0289	2.9568	0.8370	76.21	0.0461
Iso-Butane	0.5274	0.5148	0.1730	17.15	0.0106
N-Butane	0.8776	0.8567	0.2780	28.63	0.0176
I-Pentane	0.3457	0.3375	0.1270	13.83	0.0086
N-Pentane	0.2733	0.2668	0.0990	10.96	0.0068
Hexane Plus	1.1157	1.0891	0.4990	58.81	0.0369
Total	100.0000	97.6195	18.5500	1158.84	0.7180

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0033
BTU/CU.FT IDEAL: 1161.5
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1165.3
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1145.0
DRY BTU @ 15.025: 1188.6
REAL SPECIFIC GRAVITY: 0.72

CYLINDER #: 103
CYLINDER PRESSURE: 11 PSIG
ANALYSIS DATE: 09/30/2020
ANALYSIS TIME: 03:22:42 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: 10/06/2020

GC Method: C6+ Gas



BP - SOUTH BHD PROJECT
WELL ANALYSIS COMPARISON

Lease: JAQUEZ GC F 1M ; TBG
Stn. No.: API
Mtr. No.: 98582

TUBING

10/06/2020
15950-12200

Smpl Date: 09/24/2020
Test Date: 09/30/2020
Run No: SO200168

Nitrogen: 2.9930
CO2: 2.2627
Methane: 80.8566
Ethane: 7.7191
Propane: 3.0289
I-Butane: 0.5274
N-Butane: 0.8776
I-Pentane: 0.3457
N-Pentane: 0.2733
Hexane+: 1.1157

BTU: 1165.3
GPM: 18.5500
SPG: 0.7200