



NMOCD REC'D
10/12/20

Well Name: JAQUEZ GC F 1; TBG
API #: API #300452588400
Source: TUBING
Sample Type: GAS
Analysis No: SO200089
Cust No: 15950-11825

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT
Well Name: JAQUEZ GC F 1; TBG
County/State: SAN JUAN NM
Location:
Lease/PA/CA:
Formation:
Cust. Stn. No.: API #300452588400

Source: TUBING
Well Flowing: Y
Pressure: 25 PSIG
Flow Temp: 81.4 DEG. F
Ambient Temp: 78 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 07/28/2020
Sample Time: 1.10 PM
Sampled By: CELIA L.
Sampled by (CO): ABC

Heat Trace: N
Remarks:

Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.2225	0.2192	0.0250	0.00	0.0022
CO2	3.7180	3.6623	0.6360	0.00	0.0565
Methane	95.4120	93.9814	16.2050	963.66	0.5285
Ethane	0.5720	0.5634	0.1530	10.12	0.0059
Propane	0.0477	0.0470	0.0130	1.20	0.0007
Iso-Butane	0.0130	0.0128	0.0040	0.42	0.0003
N-Butane	0.0045	0.0044	0.0010	0.15	0.0001
I-Pentane	0.0025	0.0025	0.0010	0.10	0.0001
N-Pentane	0.0000	0.0000	0.0000	0.00	0.0000
Hexane Plus	0.0078	0.0077	0.0030	0.41	0.0003
Total	100.0000	98.5007	17.0410	976.06	0.5945

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0021
BTU/CU.FT IDEAL: 978.3
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 980.4
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 963.3
DRY BTU @ 15.025: 1000.0
REAL SPECIFIC GRAVITY: 0.5955

CYLINDER #: 0080
CYLINDER PRESSURE: 23 PSIG
ANALYSIS DATE: 07/31/2020
ANALYSIS TIME: 03:36:27 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: 08/05/2020

GC Method: C6+ Gas



BP - SOUTH BHD PROJECT
WELL ANALYSIS COMPARISON

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

TUBING

08/05/2020
15950-11825

Smpl Date: 07/28/2020
Test Date: 07/31/2020
Run No: SO200089

Nitrogen: 0.2225
CO2: 3.7180
Methane: 95.4120
Ethane: 0.5720
Propane: 0.0477
I-Butane: 0.0130
N-Butane: 0.0045
I-Pentane: 0.0025
N-Pentane: 0.0000
Hexane+: 0.0078

BTU: 980.4
GPM: 17.0410
SPG: 0.5955



NMOCD REC'D
10/12/20

Well Name: JAQUEZ GC F 1; CSG
API #: API #300452588400
Source: CASING
Sample Type: GAS
Analysis No: SO200087
Cust No: 15950-11815

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT
Well Name: JAQUEZ GC F 1; CSG
County/State: SAN JUAN NM
Location:
Lease/PA/CA:
Formation:
Cust. Stn. No.: API #300452588400

Source: CASING
Well Flowing: Y
Pressure: 53 PSIG
Flow Temp: 80.1 DEG. F
Ambient Temp: 78 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 07/28/2020
Sample Time: 1.15 PM
Sampled By: CELIA L.
Sampled by (CO): ABC

Heat Trace: N
Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1150	0.1124	0.0130	0.00	0.0011
CO2	3.5879	3.5062	0.6130	0.00	0.0545
Methane	95.6843	93.5060	16.2510	966.41	0.5300
Ethane	0.5290	0.5170	0.1420	9.36	0.0055
Propane	0.0439	0.0429	0.0120	1.10	0.0007
Iso-Butane	0.0120	0.0117	0.0040	0.39	0.0002
N-Butane	0.0054	0.0053	0.0020	0.18	0.0001
I-Pentane	0.0037	0.0036	0.0010	0.15	0.0001
N-Pentane	0.0000	0.0000	0.0000	0.00	0.0000
Hexane Plus	0.0188	0.0184	0.0080	0.99	0.0006
Total	100.0000	97.7235	17.0460	978.58	0.5928

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0021
BTU/CU.FT IDEAL: 980.8
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 982.9
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 965.8
DRY BTU @ 15.025: 1002.6
REAL SPECIFIC GRAVITY: 0.5939

CYLINDER #: 0103
CYLINDER PRESSURE: 46 PSIG
ANALYSIS DATE: 07/31/2020
ANALYSIS TIME: 03:12:05 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: 08/05/2020

GC Method: C6+ Gas



BP - SOUTH BHD PROJECT
WELL ANALYSIS COMPARISON

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

CASING

08/05/2020
15950-11815

Smpl Date: 07/28/2020
Test Date: 07/31/2020
Run No: SO200087

Nitrogen: 0.1150
CO2: 3.5879
Methane: 95.6843
Ethane: 0.5290
Propane: 0.0439
I-Butane: 0.0120
N-Butane: 0.0054
I-Pentane: 0.0037
N-Pentane: 0.0000
Hexane+: 0.0188

BTU: 982.9
GPM: 17.0460
SPG: 0.5939



NMOCD REC'D
10/12/20

Well Name: JAQUEZ GC F 1; INTER
API #: API #300452588400
Source: INTERMEDIATE CASING
Sample Type: GAS
Analysis No: SO200088
Cust No: 15950-11820

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT
Well Name: JAQUEZ GC F 1; INTER
County/State: SAN JUAN NM
Location:
Lease/PA/CA:
Formation:
Cust. Stn. No.: API #300452588400

Source: INTERMEDIATE CASING
Well Flowing: Y
Pressure: 15 PSIG
Flow Temp: DEG. F
Ambient Temp: 78 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 07/28/2020
Sample Time: 1.25 PM
Sampled By: CELIA L.
Sampled by (CO): ABC

Heat Trace: N
Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.6316	0.5652	0.0700	0.00	0.0061
CO2	0.0131	0.0117	0.0020	0.00	0.0002
Methane	93.4457	83.6278	15.8770	943.80	0.5176
Ethane	3.4347	3.0738	0.9210	60.78	0.0357
Propane	1.1899	1.0649	0.3290	29.94	0.0181
Iso-Butane	0.2404	0.2151	0.0790	7.82	0.0048
N-Butane	0.3246	0.2905	0.1030	10.59	0.0065
I-Pentane	0.1468	0.1314	0.0540	5.87	0.0037
N-Pentane	0.1129	0.1010	0.0410	4.53	0.0028
Hexane Plus	0.4603	0.4119	0.2060	24.26	0.0152
Total	100.0000	89.4933	17.6820	1087.59	0.6107

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0025
BTU/CU.FT IDEAL: 1090.1
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1092.8
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1073.8
DRY BTU @ 15.025: 1114.7
REAL SPECIFIC GRAVITY: 0.612

CYLINDER #: 1073
CYLINDER PRESSURE: 13 PSIG
ANALYSIS DATE: 07/31/2020
ANALYSIS TIME: 03:21:07 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: 08/05/2020

GC Method: C6+ Gas



BP - SOUTH BHD PROJECT
WELL ANALYSIS COMPARISON

Lease: JAQUEZ GC F 1; INTER
Stn. No.: API
Mtr. No.:

INTERMEDIATE CASING

08/05/2020
15950-11820

Smpl Date: 07/28/2020
Test Date: 07/31/2020
Run No: SO200088

Nitrogen: 0.6316
CO2: 0.0131
Methane: 93.4457
Ethane: 3.4347
Propane: 1.1899
I-Butane: 0.2404
N-Butane: 0.3246
I-Pentane: 0.1468
N-Pentane: 0.1129
Hexane+: 0.4603

BTU: 1092.8
GPM: 17.6820
SPG: 0.6120