



Well Name: CLARK #3; BHD
API #: 30-039-05648
Source: BRADENHEAD
Sample Type: GAS
Analysis No: SA200001
Cust No: 70300-10080

Well/Lease Information

Customer Name: SAN JUAN RESOURCES
Well Name: CLARK #3; BHD
County/State: RIO ARRIBA
Location:
Lease/PA/CA:
Formation: PICTURED CLIFFS
Cust. Stn. No.: 87910-01

Source: BRADENHEAD
Well Flowing: N
Pressure: 30 PSIG
Flow Temp: DEG. F
Ambient Temp: 23 DEG. F
Flow Rate: 0 MCF/D
Sample Method: Purge & Fill
Sample Date: 01/02/2020
Sample Time: 3.00 PM
Sampled By: IAN PECOTTE
Sampled by (CO): WALSH ENG.

Heat Trace: N

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.3745	1.3638	0.1520	0.00	0.0133
CO2	0.1409	0.1398	0.0240	0.00	0.0021
Methane	76.9359	76.3361	13.0920	777.05	0.4261
Ethane	10.1975	10.1180	2.7370	180.47	0.1059
Propane	6.3621	6.3125	1.7590	160.08	0.0969
Iso-Butane	1.3354	1.3250	0.4390	43.43	0.0268
N-Butane	1.7917	1.7777	0.5670	58.45	0.0360
I-Pentane	0.6460	0.6410	0.2370	25.85	0.0161
N-Pentane	0.4631	0.4595	0.1680	18.56	0.0115
Hexane Plus	0.7529	0.7470	0.3370	39.69	0.0249
Total	100.0000	99.2204	19.5120	1303.57	0.7596

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.004
BTU/CU.FT IDEAL: 1306.6
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1311.8
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1289.0
DRY BTU @ 15.025: 1338.1
REAL SPECIFIC GRAVITY: 0.7624

CYLINDER #: 6202
CYLINDER PRESSURE: 34 PSIG
ANALYSIS DATE: 01/03/2020
ANALYSIS TIME: 09:03:27 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: 01/03/2020

GC Method: C6+ Gas



Well Name: CLARK #3; CSG
 API #: 30-039-05648
 Source: CASING
 Sample Type: GAS
 Analysis No: SA200002
 Cust No: 70300-10075

Well/Lease Information

Customer Name: SAN JUAN RESOURCES
 Well Name: CLARK #3; CSG
 County/State: RIO ARRIBA
 Location:
 Lease/PA/CA:
 Formation: PICTURED CLIFFS
 Cust. Stn. No.: 87910-01

Source: CASING
 Well Flowing: N
 Pressure: 37 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 23 DEG. F
 Flow Rate: 0 MCF/D
 Sample Method: Purge & Fill
 Sample Date: 01/02/2020
 Sample Time: 3.00 PM
 Sampled By: IAN PECOTTE
 Sampled by (CO): WALSH ENG.

Heat Trace: N
 Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.3788	1.3698	0.1520	0.00	0.0133
CO2	0.1462	0.1452	0.0250	0.00	0.0022
Methane	77.5462	77.0409	13.1940	783.22	0.4295
Ethane	9.8498	9.7856	2.6440	174.31	0.1023
Propane	6.1756	6.1354	1.7080	155.38	0.0940
Iso-Butane	1.3554	1.3466	0.4450	44.08	0.0272
N-Butane	1.7285	1.7172	0.5470	56.39	0.0347
I-Pentane	0.6406	0.6364	0.2350	25.63	0.0160
N-Pentane	0.4446	0.4417	0.1620	17.82	0.0111
Hexane Plus	0.7343	0.7295	0.3290	38.71	0.0243
Total	100.0000	99.3483	19.4410	1295.54	0.7546

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0039
 BTU/CU.FT IDEAL: 1298.5
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1303.6
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1280.9
 DRY BTU @ 15.025: 1329.7
 REAL SPECIFIC GRAVITY: 0.7572

CYLINDER #: 7056
 CYLINDER PRESSURE: 34 PSIG
 ANALYSIS DATE: 01/03/2020
 ANALYSIS TIME: 09:20:10 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: 01/03/2020

GC Method: C6+ Gas