

By IAN KECOTTE Witness _____
LEASE OPERATOR

 (Position)



Well Name: CLARK 8; BHD
 API #: 30-039-22680
 Source: BRADENHEAD
 Sample Type: GAS
 Analysis No: SA190007
 Cust No: 70300-10085

Well/Lease Information

Customer Name: SAN JUAN RESOURCES
 Well Name: CLARK 8; BHD
 County/State: RIO ARRIBA NM
 Location:
 Lease/PA/CA:
 Formation: DAKOTA
 Cust. Stn. No.: 94321-01

Source: BRADENHEAD
 Well Flowing: N
 Pressure: 44 PSIG
 Flow Temp: DEG. F
 Ambient Temp: DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 07/12/2019
 Sample Time: 3.15 PM
 Sampled By: IAN PECOTTE
 Sampled by (CO): WALSH

Heat Trace:
 Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.7239	1.7030	0.1900	0.00	0.0167
CO2	0.0195	0.0193	0.0030	0.00	0.0003
Methane	78.1383	77.1887	13.2980	789.20	0.4328
Ethane	8.3647	8.2631	2.2460	148.03	0.0868
Propane	5.5834	5.5156	1.5440	140.48	0.0850
Iso-Butane	1.4452	1.4276	0.4750	47.00	0.0290
N-Butane	1.7991	1.7772	0.5690	58.69	0.0361
I-Pentane	0.8662	0.8557	0.3180	34.66	0.0216
N-Pentane	0.6163	0.6088	0.2240	24.71	0.0154
Hexane Plus	1.4434	1.4259	0.6460	76.08	0.0478
Total	100.0000	98.7849	19.5130	1318.84	0.7714

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0041
 BTU/CU.FT IDEAL: 1321.9
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1327.3
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1304.2
 DRY BTU @ 15.025: 1353.9
 REAL SPECIFIC GRAVITY: 0.7743

CYLINDER #: 6114
 CYLINDER PRESSURE: 11 PSIG
 ANALYSIS DATE: 07/19/2019
 ANALYSIS TIME: 12:04:30 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: 12/30/2019

GC Method: C6+ Gas



Well Name: CLARK 8; CSG

API #: 30-039-22680

Source: CASING

Sample Type: GAS

Analysis No: SA190008

Cust No: 70300-10155

Well/Lease Information

Customer Name: SAN JUAN RESOURCES
Well Name: CLARK 8; CSG
County/State: RIO ARRIBA NM
Location:
Lease/PA/CA:
Formation:
Cust. Stn. No.: 94321-01

Source: CASING
Well Flowing:
Pressure: 44 PSIG
Flow Temp: DEG. F
Ambient Temp: DEG. F
Flow Rate: MCF/D
Sample Method:
Sample Date: 07/12/2019
Sample Time: 3.20 PM
Sampled By: IAN PECOTTE
Sampled by (CO): WALSH

Heat Trace:

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.0281	1.0256	0.1140	0.00	0.0099
CO2	0.1112	0.1109	0.0190	0.00	0.0017
Methane	77.7568	77.5660	13.2350	785.34	0.4307
Ethane	8.6639	8.6426	2.3260	153.33	0.0899
Propane	5.9886	5.9739	1.6570	150.68	0.0912
Iso-Butane	1.5387	1.5349	0.5060	50.04	0.0309
N-Butane	1.9013	1.8966	0.6020	62.03	0.0382
I-Pentane	0.8759	0.8737	0.3220	35.04	0.0218
N-Pentane	0.6275	0.6260	0.2280	25.15	0.0156
Hexane Plus	1.5080	1.5043	0.6750	79.49	0.0499
Total	100.0000	99.7545	19.6840	1341.10	0.7798

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0043
BTU/CU.FT IDEAL: 1344.2
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1350.0
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1326.5
DRY BTU @ 15.025: 1377.0
REAL SPECIFIC GRAVITY: 0.7829

CYLINDER #: 5024
CYLINDER PRESSURE: 42 PSIG
ANALYSIS DATE: 07/19/2019
ANALYSIS TIME: 12:28:48 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: 12/30/2019

GC Method: C6+ Gas