



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

Analysis No: DR190010
Cust No: 21300-10335

Well/Lease Information

Customer Name: D.J.R.
Well Name: H.B. BROWNING 001; CSG
County/State: RIO ARRIBA NM
Location:
Lease/PA/CA:
Formation:
Cust. Stn. No.: API # 30-039-05258

Source: CASING
Well Flowing: N
Pressure: 28 PSIG
Flow Temp: DEG. F
Ambient Temp: 85 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 08/08/2019
Sample Time: 2.40 PM
Sampled By: J. HARTER
Sampled by (CO): COTTONWOOD

NMOC

NOV 21 2019

DISTRICT III

Heat Trace: N

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.4333	0.4261	0.0480	0.00	0.0042
CO2	0.3414	0.3357	0.0580	0.00	0.0052
Methane	81.6595	80.2968	13.8940	824.76	0.4523
Ethane	7.6393	7.5118	2.0500	135.19	0.0793
Propane	4.2737	4.2024	1.1820	107.53	0.0651
Iso-Butane	1.1782	1.1585	0.3870	38.31	0.0236
N-Butane	1.5952	1.5686	0.5050	52.04	0.0320
I-Pentane	0.7731	0.7602	0.2840	30.93	0.0193
N-Pentane	0.5610	0.5516	0.2040	22.49	0.0140
Hexane Plus	1.5453	1.5195	0.6920	81.45	0.0511
Total	100.0000	98.3312	19.3040	1292.71	0.7461

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0039
BTU/CU.FT IDEAL: 1295.7
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1300.8
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1278.2
DRY BTU @ 15.025: 1326.9
REAL SPECIFIC GRAVITY: 0.7487

CYLINDER #: 6153
CYLINDER PRESSURE: 25 PSIG
ANALYSIS DATE: 08/21/2019
ANALYSIS TIME: 03:39:26 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: 08/22/2019

GC Method: C6+ Gas



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

Analysis No: DR190009
Cust No: 21300-10330

Well/Lease Information

Customer Name: D.J.R.
Well Name: H.B. BROWNING 001; BHD
County/State: RIO ARRIBA NM
Location:
Lease/PA/CA:
Formation:
Cust. Str. No.: API # 30-039-05258

Source: BRADENHEAD
Well Flowing: N
Pressure: 28 PSIG
Flow Temp: DEG. F
Ambient Temp: 85 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 08/08/2019
Sample Time: 2.45 PM
Sampled By: J. HARTER
Sampled by (CO): COTTONWOOD

Heat Trace: N
Remarks:

NMOC
NOV 21 2019
DISTRICT III

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.4445	0.4370	0.0490	0.00	0.0043
CO2	0.3221	0.3167	0.0550	0.00	0.0049
Methane	82.0866	80.7088	13.9650	829.07	0.4547
Ethane	7.6346	7.5065	2.0490	135.11	0.0793
Propane	4.1753	4.1052	1.1540	105.05	0.0636
Iso-Butane	1.1202	1.1014	0.3680	36.43	0.0225
N-Butane	1.4997	1.4745	0.4740	48.92	0.0301
I-Pentane	0.7073	0.6954	0.2600	28.30	0.0176
N-Pentane	0.5091	0.5006	0.1850	20.41	0.0127
Hexane Plus	1.5006	1.4754	0.6720	79.10	0.0497
Total	100.0000	98.3215	19.2310	1282.40	0.7392

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0038
BTU/CU.FT IDEAL: 1285.4
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1290.3
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1267.8
DRY BTU @ 15.025: 1316.1
REAL SPECIFIC GRAVITY: 0.7418

CYLINDER #: 4157
CYLINDER PRESSURE: 23 PSIG
ANALYSIS DATE: 08/21/2019
ANALYSIS TIME: 03:28:35 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: 08/22/2019

GC Method: C6+ Gas