



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

Analysis No: MG180013
Cust No: 50000-10120

30-045-22859

Well/Lease Information

Customer Name: M & G DRILLING CO., INC.
Well Name: KRAUSE #65; BHD
County/State: SAN JUAN NM
Location:
Field:
Formation:
Cust. Str. No.:

Source: BRADENHEAD
Well Flowing: Y
Pressure: 112 PSIG
Flow Temp: DEG. F
Ambient Temp: DEG. F
Flow Rate: 122 MCF/D
Sample Method:
Sample Date: 09/10/2018
Sample Time: 12:19 PM
Sampled By: DANIEL T.
Sampled by (CO): M&G DRILLING

Heat Trace:

Remarks: PRESSURED WITH HELIUM TO 30LBS

Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.6373	0.2653	0.0700	0.00	0.0062
CO2	0.0975	0.0406	0.0170	0.00	0.0015
Methane	84.2124	35.0559	14.3200	850.55	0.4665
Ethane	7.7484	3.2255	2.0790	137.12	0.0804
Propane	4.0583	1.6894	1.1210	102.11	0.0618
Iso-Butane	0.8192	0.3410	0.2690	26.64	0.0164
N-Butane	1.1963	0.4980	0.3780	39.03	0.0240
I-Pentane	0.4362	0.1816	0.1600	17.45	0.0109
N-Pentane	0.2772	0.1154	0.1010	11.11	0.0069
Hexane Plus	0.5172	0.2153	0.2310	27.26	0.0171
Total	100.0000	41.6280	18.7460	1211.27	0.6917

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0033
BTU/CU.FT IDEAL: 1214.1
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1218.1
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1196.9
DRY BTU @ 15.025: 1242.5
REAL SPECIFIC GRAVITY: 0.6937

CYLINDER #: 6249
CYLINDER PRESSURE: 5 PSIG
ANALYSIS DATE: 09/13/2018
ANALYSIS TIME: 03:10:49 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

GC Method: C6+ Gas

Last Cal/Verify: 09/17/2018

NMOC

SEP 27 2018

DISTRICT III



M & G DRILLING CO., INC.
WELL ANALYSIS COMPARISON

Lease: KRAUSE #65; BHD
Stn. No.:
Mtr. No.:

BRADENHEAD

09/17/2018
50000-10120

Smpl Date: 09/10/2018
Test Date: 09/13/2018
Run No: MG180013

Nitrogen: 0.6373
CO2: 0.0975
Methane: 84.2124
Ethane: 7.7484
Propane: 4.0583
I-Butane: 0.8192
N-Butane: 1.1963
I-Pentane: 0.4362
N-Pentane: 0.2772
Hexane+: 0.5172

BTU: 1218.1
GPM: 18.7460
SPG: 0.6937



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

Analysis No: MG180014
Cust No: 50000-10125

Well/Lease Information

Customer Name: M & G DRILLING CO., INC.
Well Name: KRAUSE #65; CSG
County/State: SAN JUAN NM
Location:
Field:
Formation:
Cust. Stn. No.:

Source: CASING
Well Flowing: Y
Pressure: 112 PSIG
Flow Temp: DEG. F
Ambient Temp: DEG. F
Flow Rate: 122 MCF/D
Sample Method:
Sample Date: 09/10/2018
Sample Time: 12.13 PM
Sampled By: DANIEL T.
Sampled by (CO): M&G DRILLING

Heat Trace:

Remarks:

Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.2012	0.2010	0.0220	0.00	0.0019
CO2	0.0758	0.0757	0.0130	0.00	0.0012
Methane	84.4589	84.3898	14.3620	853.03	0.4678
Ethane	7.9581	7.9516	2.1350	140.83	0.0826
Propane	4.0763	4.0730	1.1260	102.56	0.0621
Iso-Butane	0.8542	0.8535	0.2800	27.78	0.0171
N-Butane	1.1974	1.1964	0.3790	39.06	0.0240
I-Pentane	0.4378	0.4374	0.1610	17.52	0.0109
N-Pentane	0.2866	0.2864	0.1040	11.49	0.0071
Hexane Plus	0.4537	0.4533	0.2030	23.91	0.0150
Total	100.0000	99.9181	18.7850	1216.19	0.6898

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0033
BTU/CU.FT IDEAL: 1219.0
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1223.0
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1201.7
DRY BTU @ 15.025: 1247.5
REAL SPECIFIC GRAVITY: 0.6918

CYLINDER #: 6243
CYLINDER PRESSURE: 19 PSIG
ANALYSIS DATE: 09/13/2018
ANALYSIS TIME: 02:53:40 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: 09/17/2018

GC Method: C6+ Gas



M & G DRILLING CO., INC.
WELL ANALYSIS COMPARISON

Lease: KRAUSE #65; CSG
Stn. No.:
Mtr. No.:

CASING

09/17/2018
50000-10125

Smpl Date: 09/10/2018
Test Date: 09/13/2018
Run No: MG180014

Nitrogen: 0.2012
CO2: 0.0758
Methane: 84.4589
Ethane: 7.9581
Propane: 4.0763
I-Butane: 0.8542
N-Butane: 1.1974
I-Pentane: 0.4378
N-Pentane: 0.2866
Hexane+: 0.4537

BTU: 1223.0
GPM: 18.7850
SPG: 0.6918



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

Analysis No: MG180015
Cust No: 50000-10130

Well/Lease Information

Customer Name: M & G DRILLING CO., INC.
Well Name: KRAUSE #65; TBG
County/State: SAN JUAN NM
Location:
Field:
Formation:
Cust. Stn. No.:

Source: TUBING
Well Flowing: Y
Pressure: 112 PSIG
Flow Temp: DEG. F
Ambient Temp: DEG. F
Flow Rate: 122 MCF/D
Sample Method: Purge & Fill
Sample Date: 09/10/2018
Sample Time: 12.09 PM
Sampled By: DANIEL T.
Sampled by (CO): M&G DRILLING

Heat Trace:
Remarks:

Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1900	0.1913	0.0210	0.00	0.0018
CO2	0.0850	0.0856	0.0150	0.00	0.0013
Methane	83.3370	83.8928	14.1730	841.70	0.4616
Ethane	8.5529	8.6099	2.2950	151.36	0.0888
Propane	4.3988	4.4281	1.2160	110.68	0.0670
Iso-Butane	0.8952	0.9012	0.2940	29.11	0.0180
N-Butane	1.3156	1.3244	0.4160	42.92	0.0264
I-Pentane	0.4755	0.4787	0.1740	19.02	0.0118
N-Pentane	0.3083	0.3104	0.1120	12.36	0.0077
Hexane Plus	0.4417	0.4446	0.1980	23.28	0.0146
Total	100.0000	100.6670	18.9140	1230.44	0.6990

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0034
BTU/CU.FT IDEAL: 1233.3
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1237.5
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1216.0
DRY BTU @ 15.025: 1262.3
REAL SPECIFIC GRAVITY: 0.7011

CYLINDER #: 6084
CYLINDER PRESSURE: 11 PSIG
ANALYSIS DATE: 09/13/2018
ANALYSIS TIME: 11:16:06 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: 09/17/2018

GC Method: C6+ Gas



M & G DRILLING CO., INC.
WELL ANALYSIS COMPARISON

Lease: KRAUSE #65; TBG
Stn. No.:
Mtr. No.:

TUBING

09/17/2018
50000-10130

Smpl Date: 09/10/2018
Test Date: 09/13/2018
Run No: MG180015

Nitrogen: 0.1900
CO2: 0.0850
Methane: 83.3370
Ethane: 8.5529
Propane: 4.3988
I-Butane: 0.8952
N-Butane: 1.3156
I-Pentane: 0.4755
N-Pentane: 0.3083
Hexane+: 0.4417

BTU: 1237.5
GPM: 18.9140
SPG: 0.7011