



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

Analysis No: MG180033  
Cust No: 50000-10135

30-045-09993

### Well/Lease Information

Customer Name: M & G DRILLING CO., INC.  
Well Name: LUNT #63; BHD  
County/State: SAN JUAN NM  
Location:  
Field:  
Formation:  
Cust. Strn. No.:

Source: BRADENHEAD  
Well Flowing: N  
Pressure: 119 PSIG  
Flow Temp: DEG. F  
Ambient Temp: DEG. F  
Flow Rate: MCF/D  
Sample Method:  
Sample Date: 10/02/2018  
Sample Time: 7.00 AM  
Sampled By: DANIEL  
Sampled by (CO): M&G DRILLING

Heat Trace:

Remarks:

### Analysis

| Component:: | Mole%:   | Unnormalized %: | **GPM:  | *BTU:   | *SP Gravity: |
|-------------|----------|-----------------|---------|---------|--------------|
| Nitrogen    | 1.5944   | 1.5995          | 0.1760  | 0.00    | 0.0154       |
| CO2         | 0.0045   | 0.0045          | 0.0010  | 0.00    | 0.0001       |
| Methane     | 91.0535  | 91.3421         | 15.4710 | 919.64  | 0.5043       |
| Ethane      | 4.0013   | 4.0140          | 1.0720  | 70.81   | 0.0415       |
| Propane     | 1.8694   | 1.8753          | 0.5160  | 47.04   | 0.0285       |
| Iso-Butane  | 0.4820   | 0.4835          | 0.1580  | 15.67   | 0.0097       |
| N-Butane    | 0.4044   | 0.4057          | 0.1280  | 13.19   | 0.0081       |
| I-Pentane   | 0.1762   | 0.1768          | 0.0650  | 7.05    | 0.0044       |
| N-Pentane   | 0.0918   | 0.0921          | 0.0330  | 3.68    | 0.0023       |
| Hexane Plus | 0.3225   | 0.3235          | 0.1440  | 17.00   | 0.0107       |
| Total       | 100.0000 | 100.3170        | 17.7640 | 1094.08 | 0.6250       |

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

\*\*@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0025  
BTU/CU.FT IDEAL: 1096.6  
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1099.4  
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1080.3  
DRY BTU @ 15.025: 1121.4  
REAL SPECIFIC GRAVITY: 0.6263

CYLINDER #: 6100  
CYLINDER PRESSURE: 57 PSIG  
ANALYSIS DATE: 10/05/2018  
ANALYSIS TIME: 03:41:41 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: 10/10/2018

GC Method: C6+ Gas



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

Analysis No: MG180035  
Cust No: 50000-10145

### Well/Lease Information

Customer Name: M & G DRILLING CO., INC.  
Well Name: LUNT #63; INT CSG  
County/State: SAN JUAN NM  
Location:  
Field:  
Formation:  
Cust. Stn. No.:

Source: INTERMEDIATE CASING  
Well Flowing: N  
Pressure: 119 PSIG  
Flow Temp: DEG. F  
Ambient Temp: DEG. F  
Flow Rate: MCF/D  
Sample Method:  
Sample Date: 10/02/2018  
Sample Time: 7.03 AM  
Sampled By: DANIEL  
Sampled by (CO): M&G DRILLING

Heat Trace:

Remarks: PRESSURED WITH HELIUM TO 30LBS.

### Analysis

| Component:: | Mole%:   | Unnormalized %: | **GPM:  | *BTU:   | *SP Gravity: |
|-------------|----------|-----------------|---------|---------|--------------|
| Nitrogen    | 4.1474   | 1.8600          | 0.4570  | 0.00    | 0.0401       |
| CO2         | 0.0272   | 0.0122          | 0.0050  | 0.00    | 0.0004       |
| Methane     | 88.6855  | 39.7731         | 15.0700 | 895.72  | 0.4912       |
| Ethane      | 3.5106   | 1.5744          | 0.9410  | 62.13   | 0.0364       |
| Propane     | 1.5852   | 0.7109          | 0.4380  | 39.89   | 0.0241       |
| Iso-Butane  | 0.3688   | 0.1654          | 0.1210  | 11.99   | 0.0074       |
| N-Butane    | 0.3619   | 0.1623          | 0.1140  | 11.81   | 0.0073       |
| I-Pentane   | 0.2337   | 0.1048          | 0.0860  | 9.35    | 0.0058       |
| N-Pentane   | 0.1708   | 0.0766          | 0.0620  | 6.85    | 0.0043       |
| Hexane Plus | 0.9089   | 0.4076          | 0.4060  | 47.91   | 0.0301       |
| Total       | 100.0000 | 44.8473         | 17.7000 | 1085.64 | 0.6472       |

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

\*\*@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0026  
BTU/CU.FT IDEAL: 1088.2  
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1091.0  
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1072.0  
DRY BTU @ 15.025: 1112.8  
REAL SPECIFIC GRAVITY: 0.6486

CYLINDER #: 6144  
CYLINDER PRESSURE: PSIG  
ANALYSIS DATE: 10/05/2018  
ANALYSIS TIME: 03:54:05 PM  
ANALYSIS RUN BY: CAMERON MANGAN

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: 10/10/2018

GC Method: C6+ Gas



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

Analysis No: MG180036  
Cust No: 50000-10150

### Well/Lease Information

Customer Name: M & G DRILLING CO., INC.  
Well Name: LUNT #63; TBG  
County/State: SAN JUAN NM  
Location:  
Field:  
Formation:  
Cust. Stn. No.:

Source: TUBING  
Well Flowing: N  
Pressure: 119 PSIG  
Flow Temp: DEG. F  
Ambient Temp: DEG. F  
Flow Rate: MCF/D  
Sample Method:  
Sample Date: 10/02/2018  
Sample Time: 7.12 AM  
Sampled By: DANIEL  
Sampled by (CO): M&G DRILLING

Heat Trace:

Remarks:

### Analysis

| Component:: | Mole%:   | Unnormalized %: | **GPM:  | *BTU:   | *SP Gravity: |
|-------------|----------|-----------------|---------|---------|--------------|
| Nitrogen    | 0.5312   | 0.5224          | 0.0590  | 0.00    | 0.0051       |
| CO2         | 1.2982   | 1.2767          | 0.2220  | 0.00    | 0.0197       |
| Methane     | 81.8025  | 80.4455         | 13.9100 | 826.21  | 0.4531       |
| Ethane      | 9.4934   | 9.3359          | 2.5470  | 168.00  | 0.0986       |
| Propane     | 4.0222   | 3.9555          | 1.1110  | 101.20  | 0.0612       |
| Iso-Butane  | 0.6374   | 0.6268          | 0.2090  | 20.73   | 0.0128       |
| N-Butane    | 1.0899   | 1.0718          | 0.3450  | 35.56   | 0.0219       |
| I-Pentane   | 0.3595   | 0.3535          | 0.1320  | 14.38   | 0.0090       |
| N-Pentane   | 0.3014   | 0.2964          | 0.1100  | 12.08   | 0.0075       |
| Hexane Plus | 0.4643   | 0.4566          | 0.2080  | 24.47   | 0.0154       |
| Total       | 100.0000 | 98.3411         | 18.8530 | 1202.63 | 0.7043       |

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

\*\*@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0033  
BTU/CU.FT IDEAL: 1205.4  
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1209.4  
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1188.4  
DRY BTU @ 15.025: 1233.6  
REAL SPECIFIC GRAVITY: 0.7063

CYLINDER #: 4089  
CYLINDER PRESSURE: 119 PSIG  
ANALYSIS DATE: 10/09/2018  
ANALYSIS TIME: 08:57:59 AM  
ANALYSIS RUN BY: CAMERON MANGAN

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: 10/10/2018

GC Method: C6+ Gas





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

Analysis No: MG180034  
Cust No: 50000-10140

### Well/Lease Information

Customer Name: M & G DRILLING CO., INC.  
Well Name: LUNT #63; CSG  
County/State: SAN JUAN NM  
Location:  
Field:  
Formation:  
Cust. Stn. No.:

Source: CASING  
Well Flowing: N  
Pressure: 119 PSIG  
Flow Temp: DEG. F  
Ambient Temp: DEG. F  
Flow Rate: MCF/D  
Sample Method:  
Sample Date: 10/02/2018  
Sample Time: 7.07 AM  
Sampled By: DANIEL  
Sampled by (CO): M&G DRILLING

Heat Trace:  
Remarks:

### Analysis

| Component:: | Mole%:   | Unnormalized %: | **GPM:  | *BTU:   | *SP Gravity: |
|-------------|----------|-----------------|---------|---------|--------------|
| Nitrogen    | 0.4905   | 0.4910          | 0.0540  | 0.00    | 0.0047       |
| CO2         | 0.5645   | 0.5651          | 0.0970  | 0.00    | 0.0086       |
| Methane     | 82.0361  | 82.1196         | 13.9500 | 828.56  | 0.4544       |
| Ethane      | 9.8732   | 9.8833          | 2.6490  | 174.73  | 0.1025       |
| Propane     | 4.1482   | 4.1524          | 1.1460  | 104.37  | 0.0632       |
| Iso-Butane  | 0.6632   | 0.6639          | 0.2180  | 21.57   | 0.0133       |
| N-Butane    | 1.1519   | 1.1531          | 0.3640  | 37.58   | 0.0231       |
| I-Pentane   | 0.3845   | 0.3849          | 0.1410  | 15.38   | 0.0096       |
| N-Pentane   | 0.3093   | 0.3096          | 0.1120  | 12.40   | 0.0077       |
| Hexane Plus | 0.3786   | 0.3790          | 0.1690  | 19.96   | 0.0125       |
| Total       | 100.0000 | 100.1019        | 18.9000 | 1214.55 | 0.6996       |

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

\*\*@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0033  
BTU/CU.FT IDEAL: 1217.4  
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1221.4  
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1200.1  
DRY BTU @ 15.025: 1245.9  
REAL SPECIFIC GRAVITY: 0.7017

CYLINDER #: 4111  
CYLINDER PRESSURE: 177 PSIG  
ANALYSIS DATE: 10/09/2018  
ANALYSIS TIME: 09:01:58 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: 10/10/2018

GC Method: C6+ Gas