



OIL CONS. DIV DIST. 3
SEP 1 2015

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

Analysis No: MG150001
Cust No: 50000-10045

Well/Lease Information

Customer Name: M & G DRILLING CO., INC.
Well Name: GRAHAM 53A; BHD
County/State: SAN JUAN
Location:
Field:
Formation:
Cust. Stn. No.:

Source: BRADENHEAD
Pressure: 20 PSIG
Sample Temp: DEG. F
Well Flowing: Y
Date Sampled: 08/17/2015
Sampled By: DAVID HINSON
Foreman/Engr.:

API # 30-045-06702

Remarks:

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.907	0.1000	0.00	0.0088
CO2	0.297	0.0510	0.00	0.0045
Methane	75.080	12.7790	758.31	0.4159
Ethane	11.708	3.1440	207.20	0.1216
Propane	6.918	1.9130	174.06	0.1053
Iso-Butane	1.240	0.4070	40.32	0.0249
N-Butane	1.884	0.5960	61.46	0.0378
I-Pentane	0.587	0.2160	23.49	0.0146
N-Pentane	0.449	0.1630	18.00	0.0112
Hexane Plus	0.930	0.4160	49.02	0.0308
Total	100.000	19.7850	1331.86	0.7753

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0042
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1340.6
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1317.3
REAL SPECIFIC GRAVITY: 0.7783

GPM, BTU, and SPG calculations as shown
above are based on current GPA factors.

DRY BTU @ 14.650: 1333.3
DRY BTU @ 14.696: 1337.5
DRY BTU @ 14.730: 1340.6
DRY BTU @ 15.025: 1367.4

CYLINDER #: 6090
CYLINDER PRESSURE: 18 PSIG
DATE RUN: 8/31/15 1:20 PM
ANALYSIS RUN BY: JENNIFER DEAN

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

Lease: GRAHAM 53A; BHD
Stn. No.:
Mtr. No.:

BRADENHEAD

09/01/2015
50000-10045

API # 30-045-06702

Smpl Date: 08/17/2015
Test Date: 08/31/2015
Run No: MG150001
Nitrogen: 0.907
CO2: 0.297
Methane: 75.080
Ethane: 11.708
Propane: 6.918
I-Butane: 1.240
N-Butane: 1.884
I-Pentane: 0.587
N-Pentane: 0.449
Hexane+: 0.930
BTU: 1340.6
GPM: 19.7850
SPG: 0.7783



OIL CONS. DIV DIST. 3

SEP 1 2015

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

Analysis No: MG150002
Cust No: 50000-10050

Well/Lease Information

Customer Name: M & G DRILLING CO., INC.
Well Name: GRAHAM 53A; TBG
County/State: SAN JUAN
Location:
Field:
Formation:
Cust. Stn. No.:

Source: TUBING
Pressure: 83 PSIG
Sample Temp: DEG. F
Well Flowing: Y
Date Sampled: 08/17/2015
Sampled By: DAVID HINSON
Foreman/Engr.:

API# 30-045-06702

Remarks:

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.341	0.0380	0.00	0.0033
CO2	0.626	0.1070	0.00	0.0095
Methane	70.932	12.0770	716.42	0.3929
Ethane	14.971	4.0210	264.94	0.1554
Propane	7.619	2.1080	191.70	0.1160
Iso-Butane	1.199	0.3940	38.99	0.0241
N-Butane	2.101	0.6650	68.54	0.0422
I-Pentane	0.654	0.2400	26.17	0.0163
N-Pentane	0.558	0.2030	22.37	0.0139
Hexane Plus	0.999	0.4470	52.66	0.0331
Total	100.000	20.3000	1381.78	0.8066

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0046
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1391.4
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1367.2
REAL SPECIFIC GRAVITY: 0.81

GPM, BTU, and SPG calculations as shown
above are based on current GPA factors.

DRY BTU @ 14.650: 1383.8
DRY BTU @ 14.696: 1388.2
DRY BTU @ 14.730: 1391.4
DRY BTU @ 15.025: 1419.3

CYLINDER #: 4179
CYLINDER PRESSURE: 82 PSIG
DATE RUN: 8/31/15 1:21 PM
ANALYSIS RUN BY: Kindra Anderson



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

Lease: GRAHAM 53A; TBG
Stn. No.:
Mtr. No.:

TUBING

09/01/2015
50000-10050

API# 30-045-06702

Smpl Date: 08/17/2015
Test Date: 08/31/2015
Run No: MG150002

Nitrogen: 0.341
CO2: 0.626
Methane: 70.932
Ethane: 14.971
Propane: 7.619
I-Butane: 1.199
N-Butane: 2.101
I-Pentane: 0.654
N-Pentane: 0.558
Hexane+: 0.999

BTU: 1391.4
GPM: 20.3000
SPG: 0.8100