

Well Name: MARRON #42; BHD
 API #: 3004506312
 Source: BRADENHEAD
 Sample Type: GAS
 Analysis No: MG20240002
 Cust No: 50000-10245

Well/Lease Information

Customer Name: M & G DRILLING CO., INC.
 Well Name: MARRON #42; BHD
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA: NMNM03605
 Formation:
 Cust. Stn. No.: 3004506312

Source: BRADENHEAD
 Well Flowing: Y
 Pressure: 79.2 PSIG
 Flow Temp: 80.6 DEG. F
 Ambient Temp: 63 DEG. F
 Flow Rate: 14.7 MCF/D
 Sample Method: Purge & Fill
 Sample Date: 10/09/2024
 Sample Time: 11.10 AM
 Sampled By: MARK MAULE
 Sampled by (CO): M & G DRILLING

Heat Trace: N

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.5911	0.5944	0.0650	0.00	0.0057
CO2	0.0694	0.0698	0.0120	0.00	0.0011
Methane	73.5878	74.0018	12.5280	743.24	0.4076
Ethane	12.3761	12.4457	3.3240	219.02	0.1285
Propane	7.3822	7.4237	2.0420	185.74	0.1124
Iso-Butane	1.1620	1.1685	0.3820	37.79	0.0233
N-Butane	2.3069	2.3199	0.7300	75.26	0.0463
I-Pentane	0.7770	0.7814	0.2850	31.09	0.0194
N-Pentane	0.5832	0.5865	0.2120	23.38	0.0145
Hexane Plus	1.1643	1.1709	0.5210	61.37	0.0385
Total	100.0000	100.5626	20.1010	1376.88	0.7973

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0045
 BTU/CU.FT IDEAL: 1380.1
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1386.3
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1362.2
 DRY BTU @ 15.025: 1414.1
 REAL SPECIFIC GRAVITY: 0.8006

CYLINDER #: 4014
 CYLINDER PRESSURE: 24 PSIG
 ANALYSIS DATE: 10/25/2024
 ANALYSIS TIME: 11:05:39 AM
 ANALYSIS RUN BY: SARAH BALLARD

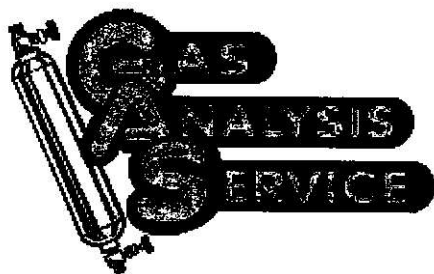
GPM, BTU, and SPG calculations as shown above are based on current GPA constants.

GPA Standard: GPA-2261

GC: Danalyzer Model 500

Last Cal/Verify: 10/30/2024

GC Method: C6+ Gas



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

Lease: MARRON #42; BHD
Stn. No.: 3004506312
Mtr. No.:

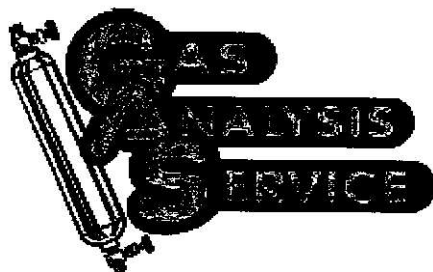
BRADENHEAD

10/30/2024
50000-10245

Smpl Date: 10/09/2024
Test Date: 10/25/2024
Run No: MG20240002

Nitrogen: 0.5911
CO2: 0.0694
Methane: 73.5878
Ethane: 12.3761
Propane: 7.3822
I-Butane: 1.1620
N-Butane: 2.3069
I-Pentane: 0.7770
N-Pentane: 0.5832
Hexane+: 1.1643

BTU: 1386.3
GPM: 20.1010
SPG: 0.8006



Well Name: MARRON #42; INTRM
 API #: 3004506312
 Source: INTERMEDIATE CASING
 Sample Type: GAS
 Analysis No: MG20240003
 Cust No: 50000-10215

Well/Lease Information

Customer Name: M & G DRILLING CO., INC.	Source: INTERMEDIATE CASING
Well Name: MARRON #42; INTRM	Well Flowing: Y
County/State: SAN JUAN NM	Pressure: 79.2 PSIG
Location:	Flow Temp: 80.6 DEG. F
Lease/PA/CA: NMNM03605	Ambient Temp: 63 DEG. F
Formation:	Flow Rate: 14.7 MCF/D
Cust. Str. No.: 3004506312	Sample Method: Purge & Fill
70062	Sample Date: 10/09/2024
	Sample Time: 11.10 AM
	Sampled By: MARK MAULE
Heat Trace: N	Sampled by (CO): M & G DRILLING
Remarks:	

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.5777	0.5747	0.0640	0.00	0.0056
CO2	0.1172	0.1166	0.0200	0.00	0.0018
Methane	75.5053	75.1101	12.8480	762.60	0.4182
Ethane	12.6246	12.5585	3.3890	223.42	0.1311
Propane	7.0778	7.0408	1.9570	178.08	0.1078
Iso-Butane	0.9668	0.9617	0.3180	31.44	0.0194
N-Butane	1.7594	1.7502	0.5570	57.40	0.0353
I-Pentane	0.4998	0.4972	0.1830	20.00	0.0125
N-Pentane	0.3309	0.3292	0.1200	13.26	0.0082
Hexane Plus	0.5405	0.5377	0.2420	28.49	0.0179
Total	100.0000	99.4767	19.6980	1314.69	0.7577

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.004	CYLINDER #:	4112
BTU/CU.FT IDEAL:	1317.7	CYLINDER PRESSURE:	163 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1323.0	ANALYSIS DATE:	10/25/2024
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1300.0	ANALYSIS TIME:	10:56:07 AM
DRY BTU @ 15.025:	1349.5	ANALYSIS RUN BY:	SARAH BALLARD
REAL SPECIFIC GRAVITY:	0.7605		

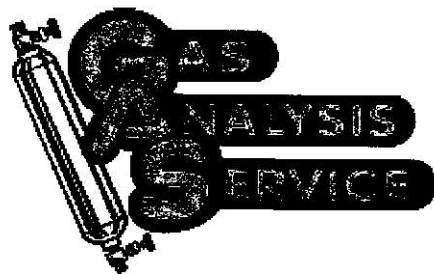
GPM, BTU, and SPG calculations as shown above are based on current GPA constants.

GPA Standard: GPA-2261

GC: Danalyzer Model 500

Last Cal/Verify: 10/30/2024

GC Method: C6+ Gas



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

Lease:	MARRON #42; INTRM	INTERMEDIATE CASING	10/30/2024
Stn. No.:	3004506312		50000-10215
Mtr. No.:	70062		

Smpl Date:	10/09/2024	10/21/2021	08/06/2021	10/02/2018
Test Date:	10/25/2024	10/26/2021	08/16/2021	10/08/2018
Run No:	MG20240003	MG2021006	MG2021002	MG180039
Nitrogen:	0.5777	0.5404	0.5425	0.5481
CO2:	0.1172	0.5462	0.5418	0.5303
Methane:	75.5053	73.2862	73.3518	73.7476
Ethane:	12.6246	12.9176	12.7564	12.5261
Propane:	7.0778	7.4315	7.4428	7.1596
I-Butane:	0.9668	1.1198	1.1381	1.1114
N-Butane:	1.7594	2.1233	2.2358	2.1184
I-Pentane:	0.4998	0.6317	0.6571	0.6431
N-Pentane:	0.3309	0.5152	0.5336	0.5351
Hexane+:	0.5405	0.8881	0.8001	1.0803
BTU:	1323.0	1363.3	1362.8	1365.2
GPM:	19.6980	20.0130	20.0000	20.0020
SPG:	0.7605	0.7929	0.7925	0.7940

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/oed/contact-us>

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 412667

CONDITIONS

Operator: M & G DRLG CO INC P.O. Box 5940 Farmington, NM 87499	OGRID: 141852
	Action Number: 412667
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	submit gas analysis from production and tubing strings - same gas bradenhead and intermediate	1/31/2025