



OIL CONS. DIV DIST. 3
JAN 25 2017

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

Analysis No: MG170001
Cust No: 51105-10030

Well/Lease Information

Customer Name: MANANA GAS, INC.
Well Name: MARY ACKROYD #1; CSG
County/State: SAN JUAN NM
Location: API# 30-045-23426
Field: J-18-T30N-R11W
Formation:
Cust. Stn. No.: 90827

Source: CASING
Pressure: 123 PSIG
Sample Temp: DEG. F
Well Flowing: N
Date Sampled: 01/23/2017
Sampled By: JUSTIN STONE
Foreman/Engr.: VERN ANDREWS

Remarks: WELLHEAD SAMPLES

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.234	0.0260	0.00	0.0023
CO2	0.049	0.0080	0.00	0.0007
Methane	88.039	14.9660	889.19	0.4876
Ethane	6.685	1.7930	118.31	0.0694
Propane	2.693	0.7440	67.76	0.0410
Iso-Butane	0.507	0.1660	16.49	0.0102
N-Butane	0.715	0.2260	23.33	0.0143
I-Pentane	0.284	0.1040	11.36	0.0071
N-Pentane	0.176	0.0640	7.06	0.0044
Hexane Plus	0.618	0.2760	32.58	0.0205
Total	100.000	18.3730	1166.06	0.6575

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.003

BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1172.2

BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1151.8

REAL SPECIFIC GRAVITY: 0.6591

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

DRY BTU @ 14.650: 1165.8

DRY BTU @ 14.696: 1169.5

DRY BTU @ 14.730: 1172.2

DRY BTU @ 15.025: 1195.7

CYLINDER #: 4127

CYLINDER PRESSURE: 102 PSIG

DATE RUN: 1/24/17 12:48 PM

ANALYSIS RUN BY: DAWN BLASSINGAME



MANANA GAS, INC.
WELL ANALYSIS COMPARISON

Lease: MARY ACKROYD #1; CSG
Stn. No.: 90827
Mtr. No.:

CASING

01/24/2017
51105-10030

Smpl Date: 01/23/2017
Test Date: 01/24/2017
Run No: MG170001

Nitrogen: 0.234
CO2: 0.049
Methane: 88.039
Ethane: 6.685
Propane: 2.693
I-Butane: 0.507
N-Butane: 0.715
I-Pentane: 0.284
N-Pentane: 0.176
Hexane+: 0.618

BTU: 1172.2
GPM: 18.3730
SPG: 0.6591



GIL CONS. DIV DIST. 3
JAN 25 2017

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

Analysis No: MG170002
Cust No: 51105-10035

Well/Lease Information

Customer Name: MANANA GAS, INC.
Well Name: MARY ACKROYD #1; TBG
County/State: SAN JUAN NM
Location: API# 30-045-23426
Field: J-18-T30N-R11W
Formation:
Cust. Stn. No.: 90827

Source: TUBING
Pressure: 123 PSIG
Sample Temp: DEG. F
Well Flowing: N
Date Sampled: 01/23/2017
Sampled By: JUSTIN STONE
Foreman/Engr.: VERN ANDREWS

Remarks: WELLHEAD SAMPLES

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.260	0.0290	0.00	0.0025
CO2	0.031	0.0050	0.00	0.0005
Methane	88.022	14.9630	889.02	0.4876
Ethane	6.383	1.7120	112.96	0.0663
Propane	2.783	0.7690	70.02	0.0424
Iso-Butane	0.578	0.1900	18.80	0.0116
N-Butane	0.871	0.2750	28.41	0.0175
I-Pentane	0.289	0.1060	11.56	0.0072
N-Pentane	0.206	0.0750	8.26	0.0051
Hexane Plus	0.577	0.2580	30.41	0.0191
Total	100.000	18.3820	1169.45	0.6597

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.003
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1175.7
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1155.2
REAL SPECIFIC GRAVITY: 0.6614

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

DRY BTU @ 14.650: 1169.3
DRY BTU @ 14.696: 1173.0
DRY BTU @ 14.730: 1175.7
DRY BTU @ 15.025: 1199.2

CYLINDER #: 4117
CYLINDER PRESSURE: 111 PSIG
DATE RUN: 1/24/17 12:49 PM
ANALYSIS RUN BY: DAWN BLASSINGAME



MANANA GAS, INC.
WELL ANALYSIS COMPARISON

Lease: MARY ACKROYD #1; TBG
Stn. No.: 90827
Mtr. No.:

TUBING

01/24/2017
51105-10035

Smpl Date: 01/23/2017
Test Date: 01/24/2017
Run No: MG170002

Nitrogen: 0.260
CO2: 0.031
Methane: 88.022
Ethane: 6.383
Propane: 2.783
I-Butane: 0.578
N-Butane: 0.871
I-Pentane: 0.289
N-Pentane: 0.206
Hexane+: 0.577

BTU: 1175.7
GPM: 18.3820
SPG: 0.6614