



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

Analysis No: RP140003
Cust No: 69030-10230

30-045-30235

Well/Lease Information

Customer Name: RODDY PRODUCTION CO.
Well Name: OWEN 2A BHD
County/State: SAN JUAN
Location:
Field:
Formation: MESA VERDE
Cust. Stn. No.:

Source: BRADENHEAD
Pressure: 34 PSIG
Sample Temp: 95 DEG. F
Well Flowing: Y
Date Sampled: 06/30/2014
Sampled By: JEREMY DIVINE
Foreman/Engr.:

Remarks: COMPARE GAS ANALYSIS OF PRODUCTION TO BRADENHEAD

Analysis

Component:	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.763	0.0840	0.00	0.0074
CO2	0.018	0.0030	0.00	0.0003
Methane	85.445	14.5270	862.99	0.4733
Ethane	6.654	1.7850	117.76	0.0691
Propane	4.119	1.1380	103.64	0.0627
Iso-Butane	0.958	0.3140	31.15	0.0192
N-Butane	1.197	0.3780	39.05	0.0240
I-Pentane	0.384	0.1410	15.36	0.0096
N-Pentane	0.247	0.0900	9.90	0.0062
Hexane Plus	0.215	0.0960	11.33	0.0071
Total	100.000	18.5560	1191.19	0.6788

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0031
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1197.7
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1176.9
REAL SPECIFIC GRAVITY: 0.6806

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

DRY BTU @ 14.650: 1191.2
DRY BTU @ 14.696: 1194.9
DRY BTU @ 14.730: 1197.7
DRY BTU @ 15.025: 1221.7

CYLINDER #: AZT 002
CYLINDER PRESSURE: 30 PSIG
DATE RUN: 7/2/14 9:15 AM
ANALYSIS RUN BY: LOGAN CHENEY



RODDY PRODUCTION CO.
WELL ANALYSIS COMPARISON

Lease: OWEN 2A BHD
Stn. No.:
Mtr. No.:

BRADENHEAD
MESA VERDE

07/09/2014
69030-10230

Smpl Date: 06/30/2014
Test Date: 07/02/2014
Run No: RP140003

Nitrogen: 0.763
CO2: 0.018
Methane: 85.445
Ethane: 6.654
Propane: 4.119
I-Butane: 0.958
N-Butane: 1.197
I-Pentane: 0.384
N-Pentane: 0.247
Hexane+: 0.215

BTU: 1197.7
GPM: 18.5560
SPG: 0.6806



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

Analysis No: RP140004
Cust No: 69030-10235

Well/Lease Information

Customer Name: RODDY PRODUCTION CO.
Well Name: OWEN 2A MTR RUN
County/State: SAN JUAN
Location:
Field:
Formation: MESA VERDE
Cust. Stn. No.: 98-244-01

Source: METER RUN
Pressure: 298 PSIG
Sample Temp: 94 DEG. F
Well Flowing: Y
Date Sampled: 06/30/2014
Sampled By: JEREMY DIVINE
Foreman/Engr.:

Remarks: COMPARE PRODUCTION GAS TO BRADENHEAD GAS

Analysis

Component:	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.292	0.0320	0.00	0.0028
CO2	0.646	0.1110	0.00	0.0098
Methane	81.591	13.8770	824.07	0.4519
Ethane	9.289	2.4920	164.39	0.0964
Propane	4.584	1.2670	115.34	0.0698
Iso-Butane	0.962	0.3160	31.28	0.0193
N-Butane	1.241	0.3930	40.49	0.0249
I-Pentane	0.470	0.1720	18.80	0.0117
N-Pentane	0.326	0.1190	13.07	0.0081
Hexane Plus	0.599	0.2680	31.57	0.0198
Total	100.000	19.0470	1239.01	0.7147

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0035
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1246.2
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1224.5
REAL SPECIFIC GRAVITY: 0.7169

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

DRY BTU @ 14.650: 1239.4
DRY BTU @ 14.696: 1243.3
DRY BTU @ 14.730: 1246.2
DRY BTU @ 15.025: 1271.2

CYLINDER #: 033
CYLINDER PRESSURE: 286 PSIG
DATE RUN: 7/2/14 9:17 AM
ANALYSIS RUN BY: PATRICIA KING



RODDY PRODUCTION CO.
WELL ANALYSIS COMPARISON

Lease: OWEN 2A MTR RUN
Str. No.: 98-244-01
Mtr. No.:

METER RUN
MESA VERDE

07/09/2014
69030-10235

Smpl Date: 06/30/2014
Test Date: 07/02/2014
Run No: RP140004

Nitrogen: 0.292
CO2: 0.646
Methane: 81.591
Ethane: 9.289
Propane: 4.584
I-Butane: 0.962
N-Butane: 1.241
I-Pentane: 0.470
N-Pentane: 0.326
Hexane+: 0.599

BTU: 1246.2
GPM: 19.0470
SPG: 0.7169