



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

Analysis No: RP170003
Cust No: 69030-10240

30-045-32004

Well/Lease Information

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

Source: BRADENHEAD
Well Flowing: Y
Pressure: 22 PSIA
Flow Temp: DEG. F
Ambient Temp: 63 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Date Sampled: 09/26/2017
Sample Time: 11.15 AM
Sampled By: JEREMY DIVINE
Sampled by (CO): RODDY PROD.

OIL CONS. DIV DIST. 3

OCT 12 2017

Remarks:

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	11.2791	1.2430	0.00	0.1091
CO2	0.0411	0.0070	0.00	0.0006
Methane	87.9365	14.9290	888.16	0.4871
Ethane	0.7229	0.1940	12.79	0.0075
Propane	0.0144	0.0040	0.36	0.0002
Iso-Butane	0.0044	0.0010	0.14	0.0001
N-Butane	0.0016	0.0010	0.05	0.0000
I-Pentane	0.0000	0.0000	0.00	0.0000
N-Pentane	0.0000	0.0000	0.00	0.0000
Hexane Plus	0.0000	0.0000	0.00	0.0000
Total	100.0000	16.3790	901.51	0.6046

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0017
BTU/CU.FT IDEAL: 903.6
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 905.1
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 889.4
DRY BTU @ 15.025: 923.2
REAL SPECIFIC GRAVITY: 0.6054

CYLINDER #: 6043
CYLINDER PRESSURE: 28 PSIG
DATE RUN: 10/3/17 11:15 AM
ANALYSIS RUN BY: SHYANN ELLEDGE

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

GPA Standard: GPA-2261

GC: Danalyzer Model 500

GC Method: C6+ Gas

Last Cal/Verify: 10/10/2017



RODDY PRODUCTION CO.
WELL ANALYSIS COMPARISON

Lease: OWEN #2D BHD
Str. No.:
Mtr. No.:

BRADENHEAD
MESE VERDE

10/10/2017
69030-10240

Smpl Date:	09/26/2017	07/25/2014
Test Date:	10/03/2017	07/29/2014
Run No:	RP170003	RP140005
Nitrogen:	11.2791	8.9070
CO2:	0.0411	0.0480
Methane:	87.9365	89.9910
Ethane:	0.7229	0.8240
Propane:	0.0144	0.0160
I-Butane:	0.0044	0.0060
N-Butane:	0.0016	0.0040
I-Pentane:	0.0000	0.0010
N-Pentane:	0.0000	0.0000
Hexane+:	0.0000	0.2030
BTU:	905.1	938.9
GPM:	16.3790	16.5900
SPG:	0.6054	0.6020



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

Analysis No: RP170004
Cust No: 69030-10245

Well/Lease Information

Customer Name: RODDY PRODUCTION CO.
Well Name: OWEN #2D CSG
County/State: SAN JUAN
Location:
Field:
Formation: MESE VERDE
Cust. Stn. No.:

Source: CASING
Well Flowing: Y
Pressure: 46 PSIG
Flow Temp: 65 DEG. F
Ambient Temp: 65 DEG. F
Flow Rate: 35 MCF/D
Sample Method: Purge & Fill
Date Sampled: 09/26/2017
Sample Time: 11.30 AM
Sampled By: JEREMY DIVINE
Sampled by (CO): RODDY PROD.

OIL CONS. DIV DIST. 3
OCT 12 2017

Remarks:

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.2474	0.0270	0.00	0.0024
CO2	0.5632	0.0960	0.00	0.0086
Methane	81.6363	13.8860	824.53	0.4522
Ethane	9.2144	2.4730	163.07	0.0957
Propane	4.6026	1.2720	115.81	0.0701
Iso-Butane	0.9025	0.2960	29.35	0.0181
N-Butane	1.1535	0.3650	37.63	0.0231
I-Pentane	0.4138	0.1520	16.56	0.0103
N-Pentane	0.2865	0.1040	11.48	0.0071
Hexane Plus	0.9798	0.4380	51.65	0.0324
Total	100.0000	19.1090	1250.07	0.7200

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0036
BTU/CU.FT IDEAL: 1253.0
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1257.5
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1235.6
DRY BTU @ 15.025: 1282.7
REAL SPECIFIC GRAVITY: 0.7223

CYLINDER #: 4033
CYLINDER PRESSURE: 47 PSIG
DATE RUN: 10/3/17 11:30 AM
ANALYSIS RUN BY: SHYANN ELLEDGE

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

GPA Standard: GPA-2261

GC: Danalyzer Model 500

GC Method: C6+ Gas

Last Cal/Verify: 10/10/2017



RODDY PRODUCTION CO.
WELL ANALYSIS COMPARISON

Lease: OWEN #2D CSG
Stn. No.:
Mtr. No.:

CASING
MESE VERDE

10/10/2017
69030-10245

Smpl Date:	09/26/2017	07/25/2014
Test Date:	10/03/2017	07/29/2014
Run No:	RP170004	RP140006
Nitrogen:	0.2474	0.2220
CO2:	0.5632	0.5790
Methane:	81.6363	81.5672
Ethane:	9.2144	9.2409
Propane:	4.6026	4.5480
I-Butane:	0.9025	0.9390
N-Butane:	1.1535	1.1780
I-Pentane:	0.4138	0.4470
N-Pentane:	0.2865	0.3120
Hexane+:	0.9798	0.9670
BTU:	1257.5	1259.6
GPM:	19.1090	19.1260
SPG:	0.7223	0.7236