



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

Analysis No: RP170001
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. Strn. No.:

Source: BRADENHEAD
Well Flowing: Y
Pressure: 30 PSIG
Flow Temp: DEG. F
Ambient Temp: 65 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Date Sampled: 09/26/2017
Sample Time: 3:57 PM
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	0.5619	0.0620	0.00	0.0054
CO2	0.0106	0.0020	0.00	0.0002
Methane	86.2155	14.6580	870.78	0.4775
Ethane	6.2708	1.6820	110.97	0.0651
Propane	3.9144	1.0810	98.49	0.0596
Iso-Butane	0.9166	0.3010	29.81	0.0184
N-Butane	1.1341	0.3590	37.00	0.0228
I-Pentane	0.4040	0.1480	16.16	0.0101
N-Pentane	0.2674	0.0970	10.72	0.0067
Hexane Plus	0.3047	0.1360	16.06	0.0101
Total	100.0000	18.5260	1189.99	0.6758

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0031
BTU/CU.FT IDEAL: 1192.7
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1196.5
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1175.7
DRY BTU @ 15.025: 1220.5
REAL SPECIFIC GRAVITY: 0.6776

CYLINDER #: 4225
CYLINDER PRESSURE: 33 PSIG
DATE RUN: 10/3/17 3:57 PM
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 2A BHD
Stn. No.:
Mtr. No.:

BRADENHEAD
MESA VERDE

10/10/2017
69030-10230

Smpl Date:	09/26/2017	06/30/2014
Test Date:	10/03/2017	07/02/2014
Run No:	RP170001	RP140003
Nitrogen:	0.5619	0.7630
CO2:	0.0106	0.0180
Methane:	86.2155	85.4449
Ethane:	6.2708	6.6541
Propane:	3.9144	4.1190
I-Butane:	0.9166	0.9580
N-Butane:	1.1341	1.1970
I-Pentane:	0.4040	0.3840
N-Pentane:	0.2674	0.2470
Hexane+:	0.3047	0.2150
BTU:	1196.5	1197.7
GPM:	18.5260	18.5560
SPG:	0.6776	0.6806



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

Analysis No: RP170002
Cust No: 69030-10250

Well/Lease Information

Customer Name: RODDY PRODUCTION CO.
Well Name: OWEN 2A; CSG
County/State: SAN JUAN NM
Location:
Field:
Formation: MV
Cust. Stn. No.:

Source: CASING
Well Flowing: Y
Pressure: 30 PSIG
Flow Temp: DEG. F
Ambient Temp: 65 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Date Sampled: 09/26/2017
Sample Time: 4.02 PM
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	0.3065	0.0340	0.00	0.0030
CO2	0.0615	0.0110	0.00	0.0009
Methane	75.7916	12.9110	765.50	0.4198
Ethane	9.3627	2.5160	165.69	0.0972
Propane	5.6949	1.5770	143.29	0.0867
Iso-Butane	1.4761	0.4850	48.00	0.0296
N-Butane	2.2520	0.7130	73.47	0.0452
I-Pentane	1.3643	0.5010	54.58	0.0340
N-Pentane	1.1564	0.4210	46.36	0.0288
Hexane Plus	2.5340	1.1360	133.57	0.0839
Total	100.0000	20.3050	1430.45	0.8291

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0051
BTU/CU.FT IDEAL: 1433.8
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1441.0
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1415.9
DRY BTU @ 15.025: 1469.9
REAL SPECIFIC GRAVITY: 0.8329

CYLINDER #: 5019
CYLINDER PRESSURE: 35 PSIG
DATE RUN: 10/3/17 4:02 PM
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

Last Cal/Verify: 10/10/2017

GC Method: C6+ Gas



RODDY PRODUCTION CO.
WELL ANALYSIS COMPARISON

Lease: OWEN 2A; CSG
Stn. No.:
Mtr. No.:

CASING
MV

10/10/2017
69030-10250

Smpl Date: 09/26/2017
Test Date: 10/03/2017
Run No: RP170002
Nitrogen: 0.3065
CO2: 0.0615
Methane: 75.7916
Ethane: 9.3627
Propane: 5.6949
I-Butane: 1.4761
N-Butane: 2.2520
I-Pentane: 1.3643
N-Pentane: 1.1564
Hexane+: 2.5340
BTU: 1441.0
GPM: 20.3050
SPG: 0.8329