



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

30-045-34532

Analysis No: GW140020
Cust No: 33050-10170

Well/Lease Information

Customer Name: GREAT WESTERN DRILLING
Well Name: NEWBERRY FED #1E; WHD
County/State: SAN JUAN NM
Location:
Field:
Formation: BASIN DK
Cust. Str. No.: 88643

Source: WELLHEAD
Pressure: 185 PSIG
Sample Temp: 87 DEG. F
Well Flowing: Y
Date Sampled: 09/05/2014
Sampled By: CULLAN KELLER
Foreman/Engr.:

OIL CONS. DIV DIST. 3

OCT 21 2014

Remarks:

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.312	0.0340	0.00	0.0030
CO2	2.125	0.3640	0.00	0.0323
Methane	80.273	13.6530	810.76	0.4446
Ethane	9.696	2.6010	171.59	0.1007
Propane	4.188	1.1580	105.37	0.0638
Iso-Butane	0.763	0.2500	24.81	0.0153
N-Butane	1.230	0.3890	40.13	0.0247
I-Pentane	0.451	0.1650	18.04	0.0112
N-Pentane	0.327	0.1190	13.11	0.0081
Hexane Plus	0.635	0.2840	33.47	0.0210
Total	100.000	19.0170	1217.28	0.7248

* @ 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): 1224.4
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1203.1
REAL SPECIFIC GRAVITY: 0.727

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

DRY BTU @ 14.650: 1217.8
DRY BTU @ 14.696: 1221.6
DRY BTU @ 14.730: 1224.4
DRY BTU @ 15.025: 1248.9

CYLINDER #: 4123
CYLINDER PRESSURE: 182 PSIG
DATE RUN: 9/9/14 12:49 PM
ANALYSIS RUN BY: AMANDA ARMENTA



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

Analysis No: GW140019
Cust No: 33050-10165

Well/Lease Information

Customer Name: GREAT WESTERN DRILLING
Well Name: NEWBERRY FED #1E; BHD
County/State: SAN JUAN NM
Location:
Field:
Formation: BASIN DK
Cust. Stn. No.: 88643

Source: BRADENHEAD
Pressure: 160 PSIG
Sample Temp: 87 DEG. F
Well Flowing: Y
Date Sampled: 09/05/2014
Sampled By: CULLAN KELLER
Foreman/Engr.:

Remarks:

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.237	0.0260	0.00	0.0023
CO2	0.027	0.0050	0.00	0.0004
Methane	64.991	11.0820	656.41	0.3600
Ethane	7.609	2.0470	134.66	0.0790
Propane	15.636	4.3330	393.42	0.2381
Iso-Butane	4.854	1.5980	157.85	0.0974
N-Butane	5.400	1.7120	176.16	0.1084
I-Pentane	0.830	0.3050	33.21	0.0207
N-Pentane	0.380	0.1390	15.23	0.0095
Hexane Plus	0.036	0.0160	1.90	0.0012
Total	100.000	21.2630	1568.83	0.9169

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0061
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1582.0
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1554.5
REAL SPECIFIC GRAVITY: 0.922

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

DRY BTU @ 14.650: 1573.4
DRY BTU @ 14.696: 1578.3
DRY BTU @ 14.730: 1582.0
DRY BTU @ 15.025: 1613.7

CYLINDER #: 6224
CYLINDER PRESSURE: 160 PSIG
DATE RUN: 9/9/14 12:46 PM
ANALYSIS RUN BY: JENNIFER DEAN