



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

Analysis No: GW140023
Cust No: 33050-10185

Well/Lease Information

Customer Name: GREAT WESTERN DRILLING
Well Name: CALLOW FED 1 BHD
County/State: SAN JUAN
Location:
Field:
Formation: DAKOTA
Cust. Stn. No.: 72642

Source: BRADENHEAD
Pressure: 115 PSIG
Sample Temp: 70 DEG. F
Well Flowing: Y
Date Sampled: 09/09/2014
Sampled By: CULLAN KELLER
Foreman/Engr.: **OIL CONS. DIV DIST. 3**

OCT 21 2014

Remarks:

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.573	0.0630	0.00	0.0055
CO2	0.009	0.0020	0.00	0.0001
Methane	90.364	15.3550	912.68	0.5005
Ethane	5.451	1.4610	96.47	0.0566
Propane	2.137	0.5900	53.77	0.0325
Iso-Butane	0.415	0.1360	13.50	0.0083
N-Butane	0.506	0.1600	16.51	0.0102
I-Pentane	0.179	0.0660	7.16	0.0045
N-Pentane	0.119	0.0430	4.77	0.0030
Hexane Plus	0.247	0.1100	13.02	0.0082
Total	100.000	17.9860	1117.87	0.6294

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0026

BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1123.4

BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1103.9

REAL SPECIFIC GRAVITY: 0.6308

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

DRY BTU @ 14.650: 1117.3

DRY BTU @ 14.696: 1120.8

DRY BTU @ 14.730: 1123.4

DRY BTU @ 15.025: 1145.9

CYLINDER #: 015

CYLINDER PRESSURE: 105 PSIG

DATE RUN: 9/15/14 10:04 AM

ANALYSIS RUN BY: PATRICIA KING



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

Analysis No: GW140024
Cust No: 33050-10190

Well/Lease Information

Customer Name: GREAT WESTERN DRILLING
Well Name: CALLOW FED 1 WLHD
County/State: SAN JUAN
Location:
Field:
Formation: DAKOTA
Cust. Stn. No.: 72642

Source: WELLHEAD
Pressure: 202 PSIG
Sample Temp: 70 DEG. F
Well Flowing: Y
Date Sampled: 09/09/2014
Sampled By: CULLAN KELLER
Foreman/Engr.:

Remarks:

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.765	0.0840	0.00	0.0074
CO2	0.900	0.1540	0.00	0.0137
Methane	83.076	14.1250	839.07	0.4602
Ethane	8.940	2.3980	158.21	0.0928
Propane	4.027	1.1130	101.32	0.0613
Iso-Butane	0.484	0.1590	15.74	0.0097
N-Butane	0.983	0.3110	32.07	0.0197
I-Pentane	0.298	0.1090	11.92	0.0074
N-Pentane	0.282	0.1030	11.30	0.0070
Hexahe Plus	0.245	0.1100	12.91	0.0081
Total	100.000	18.6660	1182.55	0.6874

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0032
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1189.0
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1168.3
REAL SPECIFIC GRAVITY: 0.6892

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

DRY BTU @ 14.650: 1182.5
DRY BTU @ 14.696: 1186.3
DRY BTU @ 14.730: 1189.0
DRY BTU @ 15.025: 1212.8

CYLINDER #: 035A
CYLINDER PRESSURE: 186 PSIG
DATE RUN: 9/15/14 10:11 AM
ANALYSIS RUN BY: DAWN BLASSINGAME