



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

Helen Hartman #1
30-045-09630

Analysis No: RL150008
Cust No: 14100-14215

Well/Lease Information

Customer Name: ROBERT L. BAYLESS, INC.
Well Name: HELAN HARTMAN #1; BHD
County/State: SAN JUAN NM
Location:
Field:
Formation:
Cust. Stn. No.:

Source: BRADENHEAD
Pressure: 30 PSIG
Sample Temp: 70 DEG. F
Well Flowing: Y
Date Sampled: 05/22/2015
Sampled By: BRAD BEGSHAW
Foreman/Engr.: ALBERT

Remarks:

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	2.014	0.2220	0.00	0.0195
CO2	0.081	0.0140	0.00	0.0012
Methane	87.357	14.8470	882.31	0.4839
Ethane	5.963	1.5990	105.53	0.0619
Propane	2.467	0.6810	62.07	0.0376
Iso-Butane	0.443	0.1450	14.41	0.0089
N-Butane	0.638	0.2020	20.81	0.0128
I-Pentane	0.255	0.0930	10.20	0.0064
N-Pentane	0.174	0.0630	6.98	0.0043
Hexane Plus	0.608	0.2720	32.05	0.0201
Total	100.000	18.1380	1134.35	0.6566

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0028
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1140.2
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1120.4
REAL SPECIFIC GRAVITY: 0.6581

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

DRY BTU @ 14.650: 1134.0
DRY BTU @ 14.696: 1137.6
DRY BTU @ 14.730: 1140.2
DRY BTU @ 15.025: 1163.0

CYLINDER #: 4067
CYLINDER PRESSURE: 13 PSIG
DATE RUN: 6/8/15 12:57 PM
ANALYSIS RUN BY: Kindra Anderson



ROBERT L. BAYLESS, INC.
WELL ANALYSIS COMPARISON

Lease: HELAN HARTMAN #1; BHD
Stn. No.:
Mtr. No.:

BRADENHEAD

06/11/2015
14100-14215

Smpl Date: 05/22/2015
Test Date: 06/08/2015
Run No: RL150008

Nitrogen: 2.014
CO2: 0.081
Methane: 87.357
Ethane: 5.963
Propane: 2.467
I-Butane: 0.443
N-Butane: 0.638
I-Pentane: 0.255
N-Pentane: 0.174
Hexane+: 0.608

BTU: 1140.2
GPM: 18.1380
SPG: 0.6581



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Analysis No: RL150009
Cust No: 14100-14220

Well/Lease Information

Customer Name: ROBERT L. BAYLESS, INC.
Well Name: HELAN HARTMAN #1; CSG.
County/State: SAN JUAN NM
Location:
Field:
Formation:
Cust. Stn. No.:

Source: CASING
Pressure: 325 PSIG
Sample Temp: 70 DEG. F
Well Flowing: Y
Date Sampled: 05/22/2015
Sampled By: BRAD BEGSHAW
Foreman/Engr.: ALBERT

Remarks:

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.202	0.0220	0.00	0.0020
CO2	0.749	0.1280	0.00	0.0114
Methane	83.801	14.2490	846.39	0.4642
Ethane	8.761	2.3500	155.04	0.0910
Propane	3.832	1.0590	96.42	0.0583
Iso-Butane	0.740	0.2430	24.06	0.0149
N-Butane	0.937	0.2960	30.57	0.0188
I-Pentane	0.323	0.1180	12.92	0.0080
N-Pentane	0.237	0.0860	9.50	0.0059
Hexane Plus	0.418	0.1870	22.03	0.0138
Total	100.000	18.7380	1196.94	0.6882

* @ 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): 1203.6
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1182.7
REAL SPECIFIC GRAVITY: 0.6902

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

DRY BTU @ 14.650: 1197.1
DRY BTU @ 14.696: 1200.8
DRY BTU @ 14.730: 1203.6
DRY BTU @ 15.025: 1227.7

CYLINDER #: 6244
CYLINDER PRESSURE: 286 PSIG
DATE RUN: 6/8/15 12:58 PM
ANALYSIS RUN BY: JENNIFER DEAN



ROBERT L. BAYLESS, INC.
WELL ANALYSIS COMPARISON

Lease: HELAN HARTMAN #1; CSG.
Stn. No.:
Mtr. No.:

CASING

06/11/2015
14100-14220

Smpl Date: 05/22/2015
Test Date: 06/08/2015
Run No: RL150009

Nitrogen: 0.202
CO2: 0.749
Methane: 83.801
Ethane: 8.761
Propane: 3.832
I-Butane: 0.740
N-Butane: 0.937
I-Pentane: 0.323
N-Pentane: 0.237
Hexane+: 0.418

BTU: 1203.6
GPM: 18.7380
SPG: 0.6902



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Analysis No: RL150010
Cust No: 14100-14225

Well/Lease Information

Customer Name: ROBERT L. BAYLESS, INC.
Well Name: HELAN HARTMAN #1; TBG
County/State: SAN JUAN NM
Location:
Field:
Formation:
Cust. Stn. No.:

Source: TUBING
Pressure: 255 PSIG
Sample Temp: 70 DEG. F
Well Flowing: Y
Date Sampled: 05/22/2015
Sampled By: BRAD BEGSHAW
Foreman/Engr.: ALBERT

Remarks:

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.221	0.0240	0.00	0.0021
CO2	0.733	0.1250	0.00	0.0111
Methane	82.207	13.9800	830.29	0.4553
Ethane	9.498	2.5480	168.08	0.0986
Propane	4.474	1.2360	112.57	0.0681
Iso-Butane	0.798	0.2620	25.95	0.0160
N-Butane	0.992	0.3140	32.36	0.0199
I-Pentane	0.337	0.1240	13.48	0.0084
N-Pentane	0.261	0.0950	10.46	0.0065
Hexane Plus	0.479	0.2140	25.25	0.0159
Total	100.000	18.9220	1218.45	0.7020

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0034
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1225.4
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1204.1
REAL SPECIFIC GRAVITY: 0.7041

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

DRY BTU @ 14.650: 1218.7
DRY BTU @ 14.696: 1222.6
DRY BTU @ 14.730: 1225.4
DRY BTU @ 15.025: 1249.9

CYLINDER #: 7055
CYLINDER PRESSURE: 243 PSIG
DATE RUN: 6/8/15 12:59 PM
ANALYSIS RUN BY: Kindra Anderson



ROBERT L. BAYLESS, INC.
WELL ANALYSIS COMPARISON

Lease: HELAN HARTMAN #1; TBG
Strn. No.:
Mtr. No.:

TUBING

06/11/2015
14100-14225

Smpl Date: 05/22/2015
Test Date: 06/08/2015
Run No: RL150010
Nitrogen: 0.221
CO2: 0.733
Methane: 82.207
Ethane: 9.498
Propane: 4.474
I-Butane: 0.798
N-Butane: 0.992
I-Pentane: 0.337
N-Pentane: 0.261
Hexane+: 0.479
BTU: 1225.4
GPM: 18.9220
SPG: 0.7041