



OIL CONS. DIV DIST. 3

NOV 13 2017

2030 Afton Place
Farmington, NM 87401
(505) 325-6622Analysis No: RL170001
Cust No: 14100-14220

30-045-09630

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
Well Flowing: Y
Pressure: 160 PSIG
Flow Temp: 55 DEG. F
Ambient Temp: 66 DEG. F
Flow Rate: 230 MCF/D
Sample Method:
Date Sampled: 11/02/2017
Sample Time: 3.05 AM
Sampled By: BILLY SCHNEIDER
Sampled by (CO): R.L. BAYLESS

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.2273	0.2262	0.0250	0.00	0.0022
CO2	0.4191	0.4171	0.0720	0.00	0.0064
Methane	78.1455	77.7797	13.2980	789.27	0.4328
Ethane	10.6191	10.5694	2.8510	187.93	0.1102
Propane	6.0476	6.0193	1.6720	152.16	0.0921
Iso-Butane	1.2879	1.2819	0.4230	41.88	0.0258
N-Butane	1.4815	1.4746	0.4690	48.33	0.0297
I-Pentane	0.5241	0.5216	0.1920	20.97	0.0131
N-Pentane	0.4048	0.4029	0.1470	16.23	0.0101
Hexane Plus	0.8431	0.8392	0.3770	44.44	0.0279
Total	100.0000	99.5319	19.5260	1301.21	0.7504

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.004
BTU/CU.FT IDEAL: 1304.2
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1309.3
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1286.5
DRY BTU @ 15.025: 1335.5
REAL SPECIFIC GRAVITY: 0.753CYLINDER #: 4234
CYLINDER PRESSURE: 132 PSIG
DATE RUN: 11/8/17 3:05 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

Last Cal/Verify: 11/08/2017

GC Method: C6+ Gas

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ROBERT L. BAYLESS, INC.
WELL ANALYSIS COMPARISON

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

CASING

11/08/2017
14100-14220

Smpl Date:	11/02/2017	05/22/2015
Test Date:	11/08/2017	06/08/2015
Run No:	RL170001	RL150009
Nitrogen:	0.2273	0.2020
CO2:	0.4191	0.7490
Methane:	78.1455	83.8010
Ethane:	10.6191	8.7610
Propane:	6.0476	3.8320
I-Butane:	1.2879	0.7400
N-Butane:	1.4815	0.9370
I-Pentane:	0.5241	0.3230
N-Pentane:	0.4048	0.2370
Hexane+:	0.8431	0.4180
BTU:	1309.3	1203.6
GPM:	19.5260	18.7380
SPG:	0.7530	0.6902



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

Analysis No: RL170003
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
Well Flowing: Y
Pressure: 120 PSIG
Flow Temp: 55 DEG. F
Ambient Temp: 66 DEG. F
Flow Rate: 230 MCF/D
Sample Method: Purge & Fill
Date Sampled: 11/02/2017
Sample Time: 3.00 PM
Sampled By: BILLY SCHNEDER
Sampled by (CO): ALBERT

Remarks: SAMPLE CONTAINED 1/3 CUP OF LIQUID.

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1877	0.1862	0.0210	0.00	0.0018
CO2	0.7015	0.6961	0.1200	0.00	0.0107
Methane	82.4796	81.8414	14.0280	833.04	0.4569
Ethane	8.9785	8.9090	2.4090	158.89	0.0932
Propane	4.1779	4.1456	1.1550	105.12	0.0636
Iso-Butane	0.8687	0.8620	0.2850	28.25	0.0174
N-Butane	1.1171	1.1085	0.3530	36.44	0.0224
I-Pentane	0.4135	0.4103	0.1520	16.54	0.0103
N-Pentane	0.3113	0.3089	0.1130	12.48	0.0078
Hexane Plus	0.7642	0.7583	0.3420	40.28	0.0253
Total	100.0000	99.2263	18.9780	1231.05	0.7094

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0035
BTU/CU.FT IDEAL: 1233.9
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1238.2
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1216.7
DRY BTU @ 15.025: 1263.0
REAL SPECIFIC GRAVITY: 0.7116

CYLINDER #: 6077
CYLINDER PRESSURE: 118 PSIG
DATE RUN: 11/8/17 12:00 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

Last Cal/Verify: 11/08/2017

GC Method: C6+ Gas



ROBERT L. BAYLESS, INC.
WELL ANALYSIS COMPARISON

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

TUBING

11/08/2017
14100-14225

Smpl Date:	11/02/2017	05/22/2015
Test Date:	11/08/2017	06/08/2015
Run No:	RL170003	RL150010
Nitrogen:	0.1877	0.2210
CO2:	0.7015	0.7330
Methane:	82.4796	82.2072
Ethane:	8.9785	9.4979
Propane:	4.1779	4.4740
I-Butane:	0.8687	0.7980
N-Butane:	1.1171	0.9920
I-Pentane:	0.4135	0.3370
N-Pentane:	0.3113	0.2610
Hexane+:	0.7642	0.4790
BTU:	1238.2	1225.4
GPM:	18.9780	18.9220
SPG:	0.7116	0.7041



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2030 Afton Place
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(505) 325-6622Analysis No: RL170002
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
Well Flowing: Y
Pressure: 40 PSIG
Flow Temp: 55 DEG. F
Ambient Temp: 66 DEG. F
Flow Rate: 230 MCF/D
Sample Method: Purge & Fill
Date Sampled: 11/02/2017
Sample Time: 3.00 PM
Sampled By: BILLY SCHNEIDER
Sampled by (CO): R.L. BAYLESS

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.0651	1.0299	0.1170	0.00	0.0103
CO2	0.0240	0.0232	0.0040	0.00	0.0004
Methane	89.1552	86.2082	15.1510	900.47	0.4938
Ethane	5.4462	5.2662	1.4600	96.38	0.0565
Propane	2.4357	2.3552	0.6730	61.28	0.0371
Iso-Butane	0.5066	0.4899	0.1660	16.47	0.0102
N-Butane	0.6106	0.5904	0.1930	19.92	0.0123
I-Pentane	0.2478	0.2396	0.0910	9.91	0.0062
N-Pentane	0.1445	0.1397	0.0530	5.79	0.0036
Hexane Plus	0.3643	0.3523	0.1630	19.20	0.0121
Total	100.0000	96.6946	18.0710	1129.44	0.6424

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0027
BTU/CU.FT IDEAL: 1132.0
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1135.1
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1115.3
DRY BTU @ 15.025: 1157.8
REAL SPECIFIC GRAVITY: 0.6439CYLINDER #: 5038
CYLINDER PRESSURE: 37 PSIG
DATE RUN: 11/8/17 3:00 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: 11/08/2017

GC Method: C6+ Gas



ROBERT L. BAYLESS, INC.
WELL ANALYSIS COMPARISON

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

BRADENHEAD

11/08/2017
14100-14215

Smpl Date:	11/02/2017	05/22/2015
Test Date:	11/08/2017	06/08/2015
Run No:	RL170002	RL150008
Nitrogen:	1.0651	2.0140
CO2:	0.0240	0.0810
Methane:	89.1552	87.3571
Ethane:	5.4462	5.9629
Propane:	2.4357	2.4670
I-Butane:	0.5066	0.4430
N-Butane:	0.6106	0.6380
I-Pentane:	0.2478	0.2550
N-Pentane:	0.1445	0.1740
Hexane+:	0.3643	0.6080
BTU:	1135.1	1140.2
GPM:	18.0710	18.1380
SPG:	0.6439	0.6581