



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

Analysis No: ED190719
Cust No: 25250-12300

30-039-07081

Well/Lease Information

Customer Name: ENDURING RESOURCES
Well Name: RINCON 78; INT
County/State: RIO ARRIBA NM
Location:
Lease/PA/CA: NM 012209
Formation:
Cust. Stn. No.:

Source: INTERMEDIATE
Well Flowing: Y
Pressure: 750 PSIG
Flow Temp: DEG. F
Ambient Temp: 80 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 07/29/2019
Sample Time: 10.40 AM
Sampled By: CELIA L.
Sampled by (CO): ABC

Heat Trace: N
Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.2319	0.2310	0.0260	0.00	0.0022
CO2	0.2928	0.2917	0.0500	0.00	0.0044
Methane	74.6426	74.3572	12.7030	753.89	0.4134
Ethane	11.6648	11.6202	3.1320	206.43	0.1211
Propane	9.6486	9.6117	2.6680	242.77	0.1469
Iso-Butane	1.1509	1.1465	0.3780	37.43	0.0231
N-Butane	1.7650	1.7583	0.5590	57.58	0.0354
I-Pentane	0.3513	0.3500	0.1290	14.06	0.0088
N-Pentane	0.1805	0.1798	0.0660	7.24	0.0045
Hexane Plus	0.0716	0.0713	0.0320	3.77	0.0024
Total	100.0000	99.6177	19.7430	1323.16	0.7623

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0041
BTU/CU.FT IDEAL: 1326.2
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1331.5
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1308.3
DRY BTU @ 15.025: 1358.2
REAL SPECIFIC GRAVITY: 0.765

CYLINDER #: 1014
CYLINDER PRESSURE: 457 PSIG
ANALYSIS DATE: 07/30/2019
ANALYSIS TIME: 10:24:02 AM
ANALYSIS RUN BY: RICHARD WILSON

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: 07/31/2019

GC Method: C6+ Gas



ENDURING RESOURCES
WELL ANALYSIS COMPARISON

Lease: RINCON 78; INT
Stn. No.:
Mtr. No.:

INTERMEDIATE

07/31/2019
25250-12300

Smpl Date: 07/29/2019
Test Date: 07/30/2019
Run No: ED190719

Nitrogen: 0.2319
CO2: 0.2928
Methane: 74.6426
Ethane: 11.6648
Propane: 9.6486
I-Butane: 1.1509
N-Butane: 1.7650
I-Pentane: 0.3513
N-Pentane: 0.1805
Hexane+: 0.0716

BTU: 1331.5
GPM: 19.7430
SPG: 0.7650



2030 Afton Place
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Analysis No: ED190718
Cust No: 25250-12295

Well/Lease Information

Customer Name: ENDURING RESOURCES
Well Name: RINCON 78; CSG
County/State: RIO ARRIBA NM
Location:
Lease/PA/CA: NM 012209
Formation:
Cust. Stn. No.:

Source: CASING
Well Flowing: Y
Pressure: 54 PSIG
Flow Temp: DEG. F
Ambient Temp: 80 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 07/29/2019
Sample Time: 10.45 AM
Sampled By: CELIA L.
Sampled by (CO): ABC

Heat Trace: N

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.4919	0.4865	0.0540	0.00	0.0048
CO2	0.9411	0.9307	0.1610	0.00	0.0143
Methane	79.1308	78.2555	13.4650	799.22	0.4383
Ethane	9.4036	9.2996	2.5240	166.42	0.0976
Propane	5.2304	5.1725	1.4460	131.60	0.0796
Iso-Butane	1.0173	1.0060	0.3340	33.08	0.0204
N-Butane	1.4882	1.4717	0.4710	48.55	0.0299
I-Pentane	0.5610	0.5548	0.2060	22.45	0.0140
N-Pentane	0.4186	0.4140	0.1520	16.78	0.0104
Hexane Plus	1.3171	1.3025	0.5900	69.43	0.0436
Total	100.0000	98.8938	19.4030	1287.52	0.7529

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.004
BTU/CU.FT IDEAL: 1290.5
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1295.6
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1273.1
DRY BTU @ 15.025: 1321.5
REAL SPECIFIC GRAVITY: 0.7555

CYLINDER #: 014
CYLINDER PRESSURE: 51 PSIG
ANALYSIS DATE: 07/30/2019
ANALYSIS TIME: 09:55:10 AM
ANALYSIS RUN BY: RICHARD WILSON

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: 07/31/2019

GC Method: C6+ Gas



ENDURING RESOURCES
WELL ANALYSIS COMPARISON

Lease: RINCON 78; CSG
Stn. No.:
Mtr. No.:

CASING

07/31/2019
25250-12295

Smpl Date: 07/29/2019
Test Date: 07/30/2019
Run No: ED190718

Nitrogen: 0.4919
CO2: 0.9411
Methane: 79.1308
Ethane: 9.4036
Propane: 5.2304
I-Butane: 1.0173
N-Butane: 1.4882
I-Pentane: 0.5610
N-Pentane: 0.4186
Hexane+: 1.3171

BTU: 1295.6
GPM: 19.4030
SPG: 0.7555



2030 Afton Place
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Analysis No: ED190720
Cust No: 25250-12305

Well/Lease Information

Customer Name: ENDURING RESOURCES
Well Name: RINCON 78; TBG
County/State: RIO ARRIBA NM
Location:
Lease/PA/CA: NM 012209
Formation:
Cust. Str. No.:

Source: TUBING
Well Flowing: Y
Pressure: 30 PSIG
Flow Temp: DEG. F
Ambient Temp: 80 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 07/29/2019
Sample Time: 10.50 AM
Sampled By: CELIA L.
Sampled by (CO): ABC

Heat Trace: N

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.4545	0.4488	0.0500	0.00	0.0044
CO2	0.9488	0.9368	0.1630	0.00	0.0144
Methane	78.6769	77.6842	13.3870	794.64	0.4358
Ethane	10.0591	9.9322	2.7000	178.02	0.1044
Propane	5.3949	5.3268	1.4920	135.74	0.0821
Iso-Butane	0.9945	0.9820	0.3270	32.34	0.0200
N-Butane	1.4878	1.4690	0.4710	48.54	0.0299
I-Pentane	0.5452	0.5383	0.2000	21.81	0.0136
N-Pentane	0.3868	0.3819	0.1410	15.51	0.0096
Hexane Plus	1.0515	1.0382	0.4710	55.43	0.0348
Total	100.0000	98.7382	19.4020	1282.01	0.7490

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0039
BTU/CU.FT IDEAL: 1285.0
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1290.0
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1267.6
DRY BTU @ 15.025: 1315.8
REAL SPECIFIC GRAVITY: 0.7516

CYLINDER #: 2584
CYLINDER PRESSURE: 39 PSIG
ANALYSIS DATE: 07/30/2019
ANALYSIS TIME: 09:20:50 AM
ANALYSIS RUN BY: RICHARD WILSON

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: 07/31/2019

GC Method: C6+ Gas



ENDURING RESOURCES
WELL ANALYSIS COMPARISON

Lease: RINCON 78; TBG
Stn. No.:
Mtr. No.:

TUBING

07/31/2019
25250-12305

Smpl Date: 07/29/2019
Test Date: 07/30/2019
Run No: ED190720

Nitrogen: 0.4545
CO2: 0.9488
Methane: 78.6769
Ethane: 10.0591
Propane: 5.3949
I-Butane: 0.9945
N-Butane: 1.4878
I-Pentane: 0.5452
N-Pentane: 0.3868
Hexane+: 1.0515

BTU: 1290.0
GPM: 19.4020
SPG: 0.7516

Bradenhead Gas Analysis

Well	API	Sample Name	Date	Nitrogen %	CO2 %	Methane %	Ethane %	Propane %	Iso-Butane %	N-Butane %	I-Pentane %	N-Pentane %	Hexane Plus %
Rincon 78	30-039-07081	Casing	7/29/2019	0.4919	0.9411	79.1308	9.4036	5.2304	1.0173	1.4882	0.561	0.4186	1.3171
Rincon 78	30-039-07081	Intermediate	7/29/2019	0.2319	0.2928	74.6428	11.6648	9.6486	1.1509	1.765	0.3513	0.1805	0.0716
Rincon 78	30-039-07081	Tubing	7/29/2019	0.4545	0.9488	78.6769	10.0591	5.3949	0.9945	1.4878	0.5452	0.3868	1.0515

NO BH test - not enough gas pressure to collect a sample