



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

Analysis No: ED190724
Cust No: 25250-12325

Well/Lease Information

Customer Name: ENDURING RESOURCES
Well Name: RINCON 127; TBG
County/State: RIO ARriba NM
Location:
Lease/PA/CA: NMNM 78406C
Formation:
Cust. Str. No.:

Source: TUBING
Well Flowing: Y
Pressure: 30 PSIG
Flow Temp: DEG. F
Ambient Temp: 87 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 07/29/2019
Sample Time: 12.40 PM
Sampled By: CELIA L.
Sampled by (CO): ABC

Heat Trace: N

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.5825	0.5709	0.0640	0.00	0.0056
CO2	1.3299	1.3034	0.2280	0.00	0.0202
Methane	83.0133	81.3593	14.1180	838.43	0.4598
Ethane	8.5899	8.4187	2.3040	152.02	0.0892
Propane	3.1791	3.1158	0.8790	79.99	0.0484
Iso-Butane	0.7073	0.6932	0.2320	23.00	0.0142
N-Butane	0.8865	0.8688	0.2800	28.92	0.0178
I-Pentane	0.4464	0.4375	0.1640	17.86	0.0111
N-Pentane	0.2774	0.2719	0.1010	11.12	0.0069
Hexane Plus	0.9877	0.9680	0.4420	52.06	0.0327
Total	100.0000	98.0075	18.8120	1203.40	0.7059

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0034
BTU/CU.FT IDEAL: 1206.2
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1210.3
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1189.2
DRY BTU @ 15.025: 1234.5
REAL SPECIFIC GRAVITY: 0.7081

CYLINDER #: 1067
CYLINDER PRESSURE: 39 PSIG
ANALYSIS DATE: 07/30/2019
ANALYSIS TIME: 01:45:31 PM
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 127; TBG
Stn. No.:
Mtr. No.:

TUBING

07/31/2019
25250-12325

Smpl Date: 07/29/2019
Test Date: 07/30/2019
Run No: ED190724
Nitrogen: 0.5825
CO2: 1.3299
Methane: 83.0133
Ethane: 8.5899
Propane: 3.1791
I-Butane: 0.7073
N-Butane: 0.8865
I-Pentane: 0.4464
N-Pentane: 0.2774
Hexane+: 0.9877
BTU: 1210.3
GPM: 18.8120
SPG: 0.7081



2030 Afton Place
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Analysis No: ED190721
Cust No: 25250-12310

Well/Lease Information

Customer Name: ENDURING RESOURCES
Well Name: RINCON 127; BHD
County/State: RIO ARriba NM
Location:
Lease/PA/CA: NMNM 78406C
Formation:
Cust. Str. No.:

Source: BRADENHEAD
Well Flowing: Y
Pressure: 7 PSIG
Flow Temp: DEG. F
Ambient Temp: 87 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 07/29/2019
Sample Time: 12.35 PM
Sampled By: CELIA L.
Sampled by (CO): ABC

Heat Trace: N
Remarks: PRESSURED WITH HELIUM TO 30LBS.

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.8880	0.8748	0.2080	0.00	0.0183
CO2	0.0063	0.0029	0.0010	0.00	0.0001
Methane	90.1317	41.7626	15.3140	910.33	0.4992
Ethane	4.9451	2.2913	1.3250	87.51	0.0513
Propane	1.8588	0.8613	0.5130	46.77	0.0283
Iso-Butane	0.2391	0.1108	0.0780	7.78	0.0048
N-Butane	0.4075	0.1888	0.1290	13.29	0.0082
I-Pentane	0.0997	0.0462	0.0370	3.99	0.0025
N-Pentane	0.0794	0.0368	0.0290	3.18	0.0020
Hexane Plus	0.3444	0.1596	0.1540	18.15	0.0114
Total	100.0000	46.3351	17.7880	1091.01	0.6261

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0025
BTU/CU.FT IDEAL: 1093.5
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1096.3
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1077.2
DRY BTU @ 15.025: 1118.3
REAL SPECIFIC GRAVITY: 0.6274

CYLINDER #: 1070
CYLINDER PRESSURE: PSIG
ANALYSIS DATE: 07/30/2019
ANALYSIS TIME: 11:39:26 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 127; BHD
Stn. No.:
Mtr. No.:

BRADENHEAD

07/31/2019
25250-12310

Smpl Date: 07/29/2019
Test Date: 07/30/2019
Run No: ED190721

Nitrogen: 1.8880
CO2: 0.0063
Methane: 90.1317
Ethane: 4.9451
Propane: 1.8588
I-Butane: 0.2391
N-Butane: 0.4075
I-Pentane: 0.0997
N-Pentane: 0.0794
Hexane+: 0.3444

BTU: 1096.3
GPM: 17.7880
SPG: 0.6274



2030 Afton Place
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Analysis No: ED190722
Cust No: 25250-12315

Well/Lease Information

Customer Name: ENDURING RESOURCES
Well Name: RINCON 127; CSG
County/State: RIO ARRIBA NM
Location:
Lease/PA/CA: NMNM78406C
Formation:
Cust. Str. No.:

Source: CASING
Well Flowing: Y
Pressure: 20 PSIG
Flow Temp: DEG. F
Ambient Temp: 87 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 07/29/2019
Sample Time: 12.25 PM
Sampled By: CELIA L.
Sampled by (CO): ABC

Heat Trace: N

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.5184	0.5065	0.0570	0.00	0.0050
CO2	1.2135	1.1856	0.2080	0.00	0.0184
Methane	81.1703	79.3026	13.8100	819.82	0.4496
Ethane	8.0223	7.8377	2.1530	141.97	0.0833
Propane	4.2326	4.1352	1.1700	106.50	0.0644
Iso-Butane	0.8426	0.8232	0.2770	27.40	0.0169
N-Butane	1.2952	1.2654	0.4100	42.25	0.0260
I-Pentane	0.6335	0.6189	0.2330	25.35	0.0158
N-Pentane	0.4879	0.4767	0.1770	19.56	0.0122
Hexane Plus	1.5837	1.5473	0.7090	83.48	0.0524
Total	100.0000	97.6991	19.2040	1266.32	0.7440

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0038
BTU/CU.FT IDEAL: 1269.3
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1274.1
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1251.9
DRY BTU @ 15.025: 1299.6
REAL SPECIFIC GRAVITY: 0.7466

CYLINDER #: 1062
CYLINDER PRESSURE: 15 PSIG
ANALYSIS DATE: 07/30/2019
ANALYSIS TIME: 09:37:14 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 127; CSG
Stn. No.:
Mtr. No.:

CASING

07/31/2019
25250-12315

Smpl Date: 07/29/2019
Test Date: 07/30/2019
Run No: ED190722

Nitrogen: 0.5184
CO2: 1.2135
Methane: 81.1703
Ethane: 8.0223
Propane: 4.2326
I-Butane: 0.8426
N-Butane: 1.2952
I-Pentane: 0.6335
N-Pentane: 0.4879
Hexane+: 1.5837

BTU: 1274.1
GPM: 19.2040
SPG: 0.7466



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Analysis No: ED190723
Cust No: 25250-12320

Well/Lease Information

Customer Name: ENDURING RESOURCES
Well Name: RINCON 127; INT
County/State: RIO ARRIBA NM
Location:
Lease/PA/CA: NMNM78406C
Formation:
Cust. Stn. No.:

Source: INTERMEDIATE
Well Flowing: Y
Pressure: 10 PSIG
Flow Temp: DEG. F
Ambient Temp: 87 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 07/29/2019
Sample Time: 12.30 PM
Sampled By: CELIA L.
Sampled by (CO): ABC

Heat Trace: N
Remarks: PRESSURED WITH HELIUM TO 30LBS.

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.2277	0.1015	0.0250	0.00	0.0022
CO2	0.0321	0.0143	0.0050	0.00	0.0005
Methane	90.4050	40.3015	15.3670	913.09	0.5008
Ethane	5.1210	2.2829	1.3730	90.63	0.0532
Propane	2.0324	0.9060	0.5610	51.14	0.0309
Iso-Butane	0.2941	0.1311	0.0960	9.56	0.0059
N-Butane	0.5283	0.2355	0.1670	17.23	0.0106
I-Pentane	0.1655	0.0738	0.0610	6.62	0.0041
N-Pentane	0.1454	0.0648	0.0530	5.83	0.0036
Hexane Plus	1.0485	0.4674	0.4690	55.27	0.0347
Total	100.0000	44.5788	18.1770	1149.37	0.6465

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0029
BTU/CU.FT IDEAL: 1152.0
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1155.4
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1135.3
DRY BTU @ 15.025: 1178.5
REAL SPECIFIC GRAVITY: 0.6481

CYLINDER #: 1023
CYLINDER PRESSURE: PSIG
ANALYSIS DATE: 07/30/2019
ANALYSIS TIME: 10:10:17 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 127; INT
Stn. No.:
Mtr. No.:

INTERMEDIATE

07/31/2019
25250-12320

Smpl Date: 07/29/2019
Test Date: 07/30/2019
Run No: ED190723

Nitrogen: 0.2277
CO2: 0.0321
Methane: 90.4050
Ethane: 5.1210
Propane: 2.0324
I-Butane: 0.2941
N-Butane: 0.5283
I-Pentane: 0.1655
N-Pentane: 0.1454
Hexane+: 1.0485

BTU: 1155.4
GPM: 18.1770
SPG: 0.6481

te	Nitrogen %	CO2 %	Methane %	Ethane %	Propane %	Iso-Butane %	N-Butane %	I-Pentane %	N-Pentane %	Hexane Plus %
'29/2019	1.888	0.0063	90.1317	4.9451	1.8588	0.2391	0.4075	0.0997	0.0794	0.3444
'29/2019	0.5184	1.2135	81.1703	8.0223	4.2326	0.8426	1.2952	0.6335	0.4879	1.5837
'29/2019	0.2277	0.0321	90.405	5.121	2.0324	0.2941	0.5283	0.1655	0.1454	1.0485
'29/2019	0.5825	1.3299	83.0133	8.5899	3.1791	0.7073	0.8865	0.4464	0.2774	0.9877