



Well Name: HORTON 9; BHD  
 API #: API # 3004522671  
 Source: BRADENHEAD  
 Sample Type: GAS  
 Analysis No: EP20230163  
 Cust No: 77000-11750

### Well/Lease Information

Customer Name: EPIC ENERGY  
 Well Name: HORTON 9; BHD  
 County/State: SAN JUAN NM  
 Location:  
 Lease/PA/CA:  
 Formation:  
 Cust. Stn. No.: API # 3004522671

Source: BRADENHEAD  
 Well Flowing: Y  
 Pressure: 50 PSIG  
 Flow Temp: DEG. F  
 Ambient Temp: 63 DEG. F  
 Flow Rate: MCF/D  
 Sample Method: Purge & Fill  
 Sample Date: 05/23/2023  
 Sample Time: 9.35 AM  
 Sampled By: MIKE WAGONER  
 Sampled by (CO): WALSH

Heat Trace: N  
 Remarks:

### Analysis

| Component:: | Mole%:   | Unnormalized %: | **GPM:  | *BTU:   | *SP Gravity: |
|-------------|----------|-----------------|---------|---------|--------------|
| Nitrogen    | 0.6553   | 0.6472          | 0.0720  | 0.00    | 0.0063       |
| CO2         | 0.2967   | 0.2930          | 0.0510  | 0.00    | 0.0045       |
| Methane     | 89.6482  | 88.5333         | 15.2350 | 905.45  | 0.4966       |
| Ethane      | 5.6884   | 5.6177          | 1.5250  | 100.67  | 0.0591       |
| Propane     | 2.1845   | 2.1573          | 0.6030  | 54.96   | 0.0333       |
| Iso-Butane  | 0.3888   | 0.3840          | 0.1280  | 12.64   | 0.0078       |
| N-Butane    | 0.5421   | 0.5354          | 0.1710  | 17.68   | 0.0109       |
| I-Pentane   | 0.1887   | 0.1864          | 0.0690  | 7.55    | 0.0047       |
| N-Pentane   | 0.1255   | 0.1239          | 0.0460  | 5.03    | 0.0031       |
| Hexane Plus | 0.2818   | 0.2783          | 0.1260  | 14.85   | 0.0093       |
| Total       | 100.0000 | 98.7565         | 18.0260 | 1118.84 | 0.6356       |

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

\*\*@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0027  
 BTU/CU.FT IDEAL: 1121.4  
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1124.5  
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1104.9  
 DRY BTU @ 15.025: 1147.0  
 REAL SPECIFIC GRAVITY: 0.637

CYLINDER #: 4060  
 CYLINDER PRESSURE: 31 PSIG  
 ANALYSIS DATE: 05/25/2023  
 ANALYSIS TIME: 09:22:44 AM  
 ANALYSIS RUN BY: ALEXIS MITCHELL

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

GPA Standard: GPA-2261

GC: Danalyzer Model 500

GC Method: C6+ Gas

Last Cal/Verify: 06/09/2023



EPIC ENERGY  
WELL ANALYSIS COMPARISON

Lease: HORTON 9; BHD  
Stn. No.: API # 3004522671  
Mtr. No.:

BRADENHEAD

06/09/2023  
77000-11750

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|            |            |            |
|------------|------------|------------|
| Smpl Date: | 05/23/2023 | 05/20/2020 |
| Test Date: | 05/25/2023 | 05/26/2020 |
| Run No:    | EP20230163 | EP200137   |
| Nitrogen:  | 0.6553     | 0.6063     |
| CO2:       | 0.2967     | 0.1827     |
| Methane:   | 89.6482    | 89.8500    |
| Ethane:    | 5.6884     | 5.7075     |
| Propane:   | 2.1845     | 2.1885     |
| I-Butane:  | 0.3888     | 0.3911     |
| N-Butane:  | 0.5421     | 0.5272     |
| I-Pentane: | 0.1887     | 0.1846     |
| N-Pentane: | 0.1255     | 0.1273     |
| Hexane+:   | 0.2818     | 0.2348     |
| BTU:       | 1124.5     | 1124.0     |
| GPM:       | 18.0260    | 18.0160    |
| SPG:       | 0.6370     | 0.6343     |



Well Name: HORTON 9; CSG  
 API #: API # 3004522671  
 Source: CASING  
 Sample Type: GAS  
 Analysis No: EP20230164  
 Cust No: 77000-11755

### Well/Lease Information

Customer Name: EPIC ENERGY  
 Well Name: HORTON 9; CSG  
 County/State: SAN JUAN NM  
 Location:  
 Lease/PA/CA:  
 Formation:  
 Cust. Stn. No.: API # 3004522671

Source: CASING  
 Well Flowing: Y  
 Pressure: 50 PSIG  
 Flow Temp: DEG. F  
 Ambient Temp: 63 DEG. F  
 Flow Rate: MCF/D  
 Sample Method: Purge & Fill  
 Sample Date: 05/23/2023  
 Sample Time: 9.35 AM  
 Sampled By: MIKE WAGONER  
 Sampled by (CO): WALSH

Heat Trace: N  
 Remarks:

### Analysis

| Component:: | Mole%:   | Unnormalized %: | **GPM:  | *BTU:   | *SP Gravity: |
|-------------|----------|-----------------|---------|---------|--------------|
| Nitrogen    | 0.1345   | 0.1309          | 0.0150  | 0.00    | 0.0013       |
| CO2         | 2.2801   | 2.2188          | 0.3900  | 0.00    | 0.0346       |
| Methane     | 83.1813  | 80.9462         | 14.1450 | 840.13  | 0.4607       |
| Ethane      | 7.9949   | 7.7801          | 2.1450  | 141.49  | 0.0830       |
| Propane     | 3.5165   | 3.4220          | 0.9720  | 88.48   | 0.0535       |
| Iso-Butane  | 0.5387   | 0.5242          | 0.1770  | 17.52   | 0.0108       |
| N-Butane    | 0.8316   | 0.8093          | 0.2630  | 27.13   | 0.0167       |
| I-Pentane   | 0.3044   | 0.2962          | 0.1120  | 12.18   | 0.0076       |
| N-Pentane   | 0.2485   | 0.2418          | 0.0900  | 9.96    | 0.0062       |
| Hexane Plus | 0.9695   | 0.9434          | 0.4340  | 51.10   | 0.0321       |
| Total       | 100.0000 | 97.3129         | 18.7430 | 1187.99 | 0.7066       |

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

\*\*@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0033  
 BTU/CU.FT IDEAL: 1190.7  
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1194.7  
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1173.9  
 DRY BTU @ 15.025: 1218.6  
 REAL SPECIFIC GRAVITY: 0.7086

CYLINDER #: 6156  
 CYLINDER PRESSURE: 54 PSIG  
 ANALYSIS DATE: 05/25/2023  
 ANALYSIS TIME: 09:26:32 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: 06/09/2023

GC Method: C6+ Gas



EPIC ENERGY  
WELL ANALYSIS COMPARISON

Lease: HORTON 9; CSG  
Stn. No.: API # 3004522671  
Mtr. No.:

CASING

06/09/2023  
77000-11755

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|            |            |            |
|------------|------------|------------|
| Smpl Date: | 05/23/2023 | 05/20/2020 |
| Test Date: | 05/25/2023 | 05/26/2020 |
| Run No:    | EP20230164 | EP200138   |
| Nitrogen:  | 0.1345     | 0.1466     |
| CO2:       | 2.2801     | 2.3136     |
| Methane:   | 83.1813    | 83.7800    |
| Ethane:    | 7.9949     | 8.1476     |
| Propane:   | 3.5165     | 3.4735     |
| I-Butane:  | 0.5387     | 0.5192     |
| N-Butane:  | 0.8316     | 0.7595     |
| I-Pentane: | 0.3044     | 0.2306     |
| N-Pentane: | 0.2485     | 0.1729     |
| Hexane+:   | 0.9695     | 0.4565     |
| BTU:       | 1194.7     | 1165.9     |
| GPM:       | 18.7430    | 18.5630    |
| SPG:       | 0.7086     | 0.6908     |



Well Name: HORTON 9; TBG  
 API #: 3004522671  
 Source: TUBING  
 Sample Type: GAS

Analysis No: EP20230172  
 Cust No: 77000-11760

### Well/Lease Information

Customer Name: EPIC ENERGY  
 Well Name: HORTON 9; TBG  
 County/State: SAN JUAN NM  
 Location:  
 Lease/PA/CA:  
 Formation:  
 Cust. Stn. No.: 3004522671

Source: TUBING  
 Well Flowing: Y  
 Pressure: 50 PSIG  
 Flow Temp: DEG. F  
 Ambient Temp: 71 DEG. F  
 Flow Rate: MCF/D  
 Sample Method: Purge & Fill  
 Sample Date: 06/16/2023  
 Sample Time: 10.25 AM  
 Sampled By: MIKE WAGONER  
 Sampled by (CO): WALSH

Heat Trace: N  
 Remarks:

### Analysis

| Component:: | Mole%:   | Unnormalized %: | **GPM:  | *BTU:   | *SP Gravity: |
|-------------|----------|-----------------|---------|---------|--------------|
| Nitrogen    | 0.1385   | 0.1355          | 0.0150  | 0.00    | 0.0013       |
| CO2         | 2.3871   | 2.3356          | 0.4090  | 0.00    | 0.0363       |
| Methane     | 83.6968  | 81.8924         | 14.2300 | 845.34  | 0.4636       |
| Ethane      | 8.2097   | 8.0327          | 2.2020  | 145.29  | 0.0852       |
| Propane     | 3.4844   | 3.4093          | 0.9630  | 87.67   | 0.0530       |
| Iso-Butane  | 0.4983   | 0.4876          | 0.1640  | 16.20   | 0.0100       |
| N-Butane    | 0.7422   | 0.7262          | 0.2350  | 24.21   | 0.0149       |
| I-Pentane   | 0.2274   | 0.2225          | 0.0830  | 9.10    | 0.0057       |
| N-Pentane   | 0.1698   | 0.1661          | 0.0620  | 6.81    | 0.0042       |
| Hexane Plus | 0.4458   | 0.4362          | 0.1990  | 23.50   | 0.0148       |
| Total       | 100.0000 | 97.8441         | 18.5620 | 1158.12 | 0.6890       |

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

\*\*@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0031  
 BTU/CU.FT IDEAL: 1160.8  
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1164.4  
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1144.1  
 DRY BTU @ 15.025: 1187.7  
 REAL SPECIFIC GRAVITY: 0.6909

CYLINDER #: 4217  
 CYLINDER PRESSURE: 53 PSIG  
 ANALYSIS DATE: 06/16/2023  
 ANALYSIS TIME: 03:10:55 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: 06/26/2023

GC Method: C6+ Gas



EPIC ENERGY  
WELL ANALYSIS COMPARISON

Lease: HORTON 9; TBG  
Stn. No.: 3004522671  
Mtr. No.:

TUBING

06/26/2023  
77000-11760

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|            |            |            |
|------------|------------|------------|
| Smpl Date: | 06/16/2023 | 05/20/2020 |
| Test Date: | 06/16/2023 | 05/26/2020 |
| Run No:    | EP20230172 | EP200139   |
| Nitrogen:  | 0.1385     | 0.1510     |
| CO2:       | 2.3871     | 2.3872     |
| Methane:   | 83.6968    | 83.9815    |
| Ethane:    | 8.2097     | 8.1302     |
| Propane:   | 3.4844     | 3.4400     |
| I-Butane:  | 0.4983     | 0.4930     |
| N-Butane:  | 0.7422     | 0.7222     |
| I-Pentane: | 0.2274     | 0.2143     |
| N-Pentane: | 0.1698     | 0.1572     |
| Hexane+:   | 0.4458     | 0.3234     |
| BTU:       | 1164.4     | 1156.4     |
| GPM:       | 18.5620    | 18.5060    |
| SPG:       | 0.6909     | 0.6859     |

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico  
Energy, Minerals and Natural Resources  
Oil Conservation Division  
1220 S. St Francis Dr.  
Santa Fe, NM 87505

CONDITIONS

Action 233125

CONDITIONS

|                                                                      |                                                     |
|----------------------------------------------------------------------|-----------------------------------------------------|
| Operator:<br>EPIC ENERGY, L.L.C.<br>332 Road 3100<br>Aztec, NM 87410 | OGRID:<br>372834                                    |
|                                                                      | Action Number:<br>233125                            |
|                                                                      | Action Type:<br>[UF-GA] Gas Analysis (GAS ANALYSIS) |

CONDITIONS

| Created By | Condition | Condition Date |
|------------|-----------|----------------|
| mkuehling  | similar   | 10/6/2023      |