



Well Name: MOUNTAIN UTE COM A  
 API #: API # 3004520770  
 Source: BRADENHEAD  
 Sample Type: GAS  
 Analysis No: HS20220010  
 Cust No: 35825-11180

### Well/Lease Information

|                 |                            |                  |              |
|-----------------|----------------------------|------------------|--------------|
| Customer Name:  | HILCORP (BHD PROJECT)      | Source:          | BRADENHEAD   |
| Well Name:      | MOUNTAIN UTE COM A #1; BHD | Well Flowing:    | N            |
| County/State:   | SAN JUAN NM                | Pressure:        | 185 PSIG     |
| Location:       |                            | Flow Temp:       | 68 DEG. F    |
| Lease/PA/CA:    |                            | Ambient Temp:    | 68 DEG. F    |
| Formation:      | DK                         | Flow Rate:       | 0 MCF/D      |
| Cust. Stn. No.: | API # 3004520770           | Sample Method:   | Purge & Fill |
|                 | FR 191KR                   | Sample Date:     | 04/20/2022   |
|                 | 142060462                  | Sample Time:     | 1.13 PM      |
|                 | AREA 2 / RUN 0202          | Sampled By:      | VICTOR R.    |
| Heat Trace:     | N                          | Sampled by (CO): | HILCORP      |
| Remarks:        |                            |                  |              |

### Analysis

| Component:: | Mole%:   | Unnormalized %: | **GPM:  | *BTU:   | *SP Gravity: |
|-------------|----------|-----------------|---------|---------|--------------|
| Nitrogen    | 1.4095   | 1.3975          | 0.1560  | 0.00    | 0.0136       |
| CO2         | 0.0047   | 0.0047          | 0.0010  | 0.00    | 0.0001       |
| Methane     | 81.3664  | 80.6752         | 13.8360 | 821.80  | 0.4507       |
| Ethane      | 9.4687   | 9.3883          | 2.5400  | 167.57  | 0.0983       |
| Propane     | 5.3246   | 5.2794          | 1.4710  | 133.97  | 0.0811       |
| Iso-Butane  | 0.5070   | 0.5027          | 0.1660  | 16.49   | 0.0102       |
| N-Butane    | 1.2676   | 1.2568          | 0.4010  | 41.35   | 0.0254       |
| I-Pentane   | 0.2402   | 0.2382          | 0.0880  | 9.61    | 0.0060       |
| N-Pentane   | 0.2022   | 0.2005          | 0.0740  | 8.11    | 0.0050       |
| Hexane Plus | 0.2091   | 0.2073          | 0.0940  | 11.02   | 0.0069       |
| Total       | 100.0000 | 99.1506         | 18.8270 | 1209.92 | 0.6973       |

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

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

|                                      |        |                    |                |
|--------------------------------------|--------|--------------------|----------------|
| COMPRESSIBILITY FACTOR (1/Z):        | 1.0033 | CYLINDER #:        | 4064           |
| BTU/CU.FT IDEAL:                     | 1212.7 | CYLINDER PRESSURE: | 179 PSIG       |
| BTU/CU.FT (DRY) CORRECTED FOR (1/Z): | 1216.7 | ANALYSIS DATE:     | 04/25/2022     |
| BTU/CU.FT (WET) CORRECTED FOR (1/Z): | 1195.5 | ANALYSIS TIME:     | 11:28:32 AM    |
| DRY BTU @ 15.025:                    | 1241.1 | ANALYSIS RUN BY:   | RICHARD WILSON |
| REAL SPECIFIC GRAVITY:               | 0.6993 |                    |                |

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: 04/29/2022

GC Method: C6+ Gas



HILCORP (BHD PROJECT)  
WELL ANALYSIS COMPARISON

|                  |                            |            |             |
|------------------|----------------------------|------------|-------------|
| <b>Lease:</b>    | MOUNTAIN UTE COM A #1; BHD | BRADENHEAD | 04/29/2022  |
| <b>Stn. No.:</b> | API # 3004520770           | DK         | 35825-11180 |
| <b>Mtr. No.:</b> | FR 191KR                   |            |             |

|                   |            |            |            |
|-------------------|------------|------------|------------|
| <b>Smpl Date:</b> | 04/20/2022 | 04/27/2021 | 05/13/2019 |
| <b>Test Date:</b> | 04/25/2022 | 05/04/2021 | 05/17/2019 |
| <b>Run No:</b>    | HS20220010 | HS2021050  | HS190062   |
| <b>Nitrogen:</b>  | 1.4095     | 1.1632     | 1.3689     |
| <b>CO2:</b>       | 0.0047     | 0.0033     | 0.0134     |
| <b>Methane:</b>   | 81.3664    | 80.9994    | 82.7137    |
| <b>Ethane:</b>    | 9.4687     | 9.8062     | 8.8697     |
| <b>Propane:</b>   | 5.3246     | 5.5153     | 4.8915     |
| <b>I-Butane:</b>  | 0.5070     | 0.5336     | 0.4997     |
| <b>N-Butane:</b>  | 1.2676     | 1.3110     | 1.1128     |
| <b>I-Pentane:</b> | 0.2402     | 0.2502     | 0.2018     |
| <b>N-Pentane:</b> | 0.2022     | 0.2086     | 0.1596     |
| <b>Hexane+:</b>   | 0.2091     | 0.2092     | 0.1689     |
| <b>BTU:</b>       | 1216.7     | 1226.8     | 1197.8     |
| <b>GPM:</b>       | 18.8270    | 18.9100    | 18.6690    |
| <b>SPG:</b>       | 0.6993     | 0.7031     | 0.6870     |



Well Name: MOUNTAIN UTE COM A  
 API #: API # 3004520770  
 Source: CASING  
 Sample Type: GAS  
 Analysis No: HS20220011  
 Cust No: 35825-11185

### Well/Lease Information

|                 |                            |                  |            |
|-----------------|----------------------------|------------------|------------|
| Customer Name:  | HILCORP (BHD PROJECT)      | Source:          | CASING     |
| Well Name:      | MOUNTAIN UTE COM A #1; CSG | Well Flowing:    | N          |
| County/State:   | SAN JUAN NM                | Pressure:        | 832 PSIG   |
| Location:       |                            | Flow Temp:       | 68 DEG. F  |
| Lease/PA/CA:    |                            | Ambient Temp:    | 68 DEG. F  |
| Formation:      | DK                         | Flow Rate:       | 0 MCF/D    |
| Cust. Stn. No.: | API # 3004520770           | Sample Method:   |            |
|                 | FR1911KR                   | Sample Date:     | 04/20/2022 |
|                 | AREA 2 / RUN 0202          | Sample Time:     | 1.15 PM    |
|                 | 142060462                  | Sampled By:      | VICTOR R.  |
| Heat Trace:     | N                          | Sampled by (CO): | HILCORP    |
| Remarks:        |                            |                  |            |

### Analysis

| Component:: | Mole%:   | Unnormalized %: | **GPM:  | *BTU:   | *SP Gravity: |
|-------------|----------|-----------------|---------|---------|--------------|
| Nitrogen    | 1.0422   | 1.0484          | 0.1150  | 0.00    | 0.0101       |
| CO2         | 1.3229   | 1.3308          | 0.2260  | 0.00    | 0.0201       |
| Methane     | 92.6140  | 93.1683         | 15.7360 | 935.40  | 0.5130       |
| Ethane      | 2.3468   | 2.3608          | 0.6290  | 41.53   | 0.0244       |
| Propane     | 1.2815   | 1.2892          | 0.3540  | 32.24   | 0.0195       |
| Iso-Butane  | 0.2385   | 0.2399          | 0.0780  | 7.76    | 0.0048       |
| N-Butane    | 0.3653   | 0.3675          | 0.1150  | 11.92   | 0.0073       |
| I-Pentane   | 0.1448   | 0.1457          | 0.0530  | 5.79    | 0.0036       |
| N-Pentane   | 0.1353   | 0.1361          | 0.0490  | 5.42    | 0.0034       |
| Hexane Plus | 0.5087   | 0.5117          | 0.2270  | 26.81   | 0.0168       |
| Total       | 100.0000 | 100.5984        | 17.5820 | 1066.88 | 0.6230       |

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

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

|                                      |        |                    |                |
|--------------------------------------|--------|--------------------|----------------|
| COMPRESSIBILITY FACTOR (1/Z):        | 1.0025 | CYLINDER #:        | 7050           |
| BTU/CU.FT IDEAL:                     | 1069.3 | CYLINDER PRESSURE: | 781 PSIG       |
| BTU/CU.FT (DRY) CORRECTED FOR (1/Z): | 1072.0 | ANALYSIS DATE:     | 04/25/2022     |
| BTU/CU.FT (WET) CORRECTED FOR (1/Z): | 1053.3 | ANALYSIS TIME:     | 11:01:21 AM    |
| DRY BTU @ 15.025:                    | 1093.5 | ANALYSIS RUN BY:   | RICHARD WILSON |
| REAL SPECIFIC GRAVITY:               | 0.6243 |                    |                |

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: 04/29/2022

GC Method: C6+ Gas



HILCORP (BHD PROJECT)  
WELL ANALYSIS COMPARISON

|                  |                            |        |             |
|------------------|----------------------------|--------|-------------|
| <b>Lease:</b>    | MOUNTAIN UTE COM A #1; CSG | CASING | 04/29/2022  |
| <b>Stn. No.:</b> | API # 3004520770           | DK     | 35825-11185 |
| <b>Mtr. No.:</b> | FR1911KR                   |        |             |

|                   |            |            |            |
|-------------------|------------|------------|------------|
| <b>Smpl Date:</b> | 04/20/2022 | 04/27/2021 | 05/13/2019 |
| <b>Test Date:</b> | 04/25/2022 | 05/04/2021 | 05/20/2019 |
| <b>Run No:</b>    | HS20220011 | HS2021051  | HS190063   |
| <b>Nitrogen:</b>  | 1.0422     | 1.4731     | 1.1508     |
| <b>CO2:</b>       | 1.3229     | 1.3482     | 1.3128     |
| <b>Methane:</b>   | 92.6140    | 94.4495    | 92.8203    |
| <b>Ethane:</b>    | 2.3468     | 1.7137     | 2.2427     |
| <b>Propane:</b>   | 1.2815     | 0.2574     | 0.9817     |
| <b>I-Butane:</b>  | 0.2385     | 0.0529     | 0.1969     |
| <b>N-Butane:</b>  | 0.3653     | 0.2494     | 0.3328     |
| <b>I-Pentane:</b> | 0.1448     | 0.1189     | 0.1419     |
| <b>N-Pentane:</b> | 0.1353     | 0.1084     | 0.1372     |
| <b>Hexane+:</b>   | 0.5087     | 0.2285     | 0.6829     |
| <b>BTU:</b>       | 1072.0     | 1026.4     | 1071.5     |
| <b>GPM:</b>       | 17.5820    | 17.2470    | 17.5720    |
| <b>SPG:</b>       | 0.6243     | 0.6000     | 0.6249     |



Well Name: MOUNTAIN UTE COM A  
 API #: API # 3004520770  
 Source: TUBING  
 Sample Type: GAS  
 Analysis No: HS20220012  
 Cust No: 35825-11190

### Well/Lease Information

|                 |                            |                  |            |
|-----------------|----------------------------|------------------|------------|
| Customer Name:  | HILCORP (BHD PROJECT)      | Source:          | TUBING     |
| Well Name:      | MOUNTAIN UTE COM A #1; TBG | Well Flowing:    | N          |
| County/State:   | SAN JUAN NM                | Pressure:        | 831 PSIG   |
| Location:       |                            | Flow Temp:       | 68 DEG. F  |
| Lease/PA/CA:    | 142060462                  | Ambient Temp:    | 68 DEG. F  |
| Formation:      | DK                         | Flow Rate:       | 0 MCF/D    |
| Cust. Stn. No.: | API # 3004520770           | Sample Method:   |            |
|                 | FR1911KR                   | Sample Date:     | 04/20/2022 |
|                 | AREA 2 / RUN 0202          | Sample Time:     | 1.18 PM    |
|                 |                            | Sampled By:      | VICTOR R.  |
| Heat Trace:     | N                          | Sampled by (CO): | HILCORP    |
| Remarks:        |                            |                  |            |

### Analysis

| Component:: | Mole%:   | Unnormalized %: | **GPM:  | *BTU:   | *SP Gravity: |
|-------------|----------|-----------------|---------|---------|--------------|
| Nitrogen    | 1.0610   | 1.0594          | 0.1170  | 0.00    | 0.0103       |
| CO2         | 1.7791   | 1.7765          | 0.3040  | 0.00    | 0.0270       |
| Methane     | 92.7427  | 92.6069         | 15.7560 | 936.70  | 0.5137       |
| Ethane      | 2.1180   | 2.1149          | 0.5680  | 37.48   | 0.0220       |
| Propane     | 0.8823   | 0.8810          | 0.2440  | 22.20   | 0.0134       |
| Iso-Butane  | 0.2135   | 0.2132          | 0.0700  | 6.94    | 0.0043       |
| N-Butane    | 0.3731   | 0.3726          | 0.1180  | 12.17   | 0.0075       |
| I-Pentane   | 0.1675   | 0.1673          | 0.0610  | 6.70    | 0.0042       |
| N-Pentane   | 0.1618   | 0.1616          | 0.0590  | 6.49    | 0.0040       |
| Hexane Plus | 0.5010   | 0.5003          | 0.2240  | 26.41   | 0.0166       |
| Total       | 100.0000 | 99.8537         | 17.5210 | 1055.09 | 0.6230       |

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

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

|                                      |        |                    |                |
|--------------------------------------|--------|--------------------|----------------|
| COMPRESSIBILITY FACTOR (1/Z):        | 1.0024 | CYLINDER #:        | 7001           |
| BTU/CU.FT IDEAL:                     | 1057.5 | CYLINDER PRESSURE: | 829 PSIG       |
| BTU/CU.FT (DRY) CORRECTED FOR (1/Z): | 1060.1 | ANALYSIS DATE:     | 04/25/2022     |
| BTU/CU.FT (WET) CORRECTED FOR (1/Z): | 1041.7 | ANALYSIS TIME:     | 10:47:00 AM    |
| DRY BTU @ 15.025:                    | 1081.3 | ANALYSIS RUN BY:   | RICHARD WILSON |
| REAL SPECIFIC GRAVITY:               | 0.6242 |                    |                |

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: 04/29/2022

GC Method: C6+ Gas



HILCORP (BHD PROJECT)  
WELL ANALYSIS COMPARISON

|                  |                            |        |             |
|------------------|----------------------------|--------|-------------|
| <b>Lease:</b>    | MOUNTAIN UTE COM A #1; TBG | TUBING | 04/29/2022  |
| <b>Stn. No.:</b> | API # 3004520770           | DK     | 35825-11190 |
| <b>Mtr. No.:</b> | FR1911KR                   |        |             |

|                   |            |            |            |
|-------------------|------------|------------|------------|
| <b>Smpl Date:</b> | 04/20/2022 | 04/27/2021 | 05/13/2019 |
| <b>Test Date:</b> | 04/25/2022 | 05/04/2021 | 05/20/2019 |
| <b>Run No:</b>    | HS20220012 | HS2021052  | HS190064   |
| <b>Nitrogen:</b>  | 1.0610     | 1.0735     | 1.1097     |
| <b>CO2:</b>       | 1.7791     | 1.3211     | 1.2860     |
| <b>Methane:</b>   | 92.7427    | 93.1659    | 92.7730    |
| <b>Ethane:</b>    | 2.1180     | 2.3213     | 2.2536     |
| <b>Propane:</b>   | 0.8823     | 0.9407     | 1.0811     |
| <b>I-Butane:</b>  | 0.2135     | 0.2177     | 0.2009     |
| <b>N-Butane:</b>  | 0.3731     | 0.3513     | 0.3340     |
| <b>I-Pentane:</b> | 0.1675     | 0.1446     | 0.1439     |
| <b>N-Pentane:</b> | 0.1618     | 0.1351     | 0.1399     |
| <b>Hexane+:</b>   | 0.5010     | 0.3288     | 0.6779     |
| <b>BTU:</b>       | 1060.1     | 1057.8     | 1073.8     |
| <b>GPM:</b>       | 17.5210    | 17.4850    | 17.5870    |
| <b>SPG:</b>       | 0.6242     | 0.6154     | 0.6256     |

**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 103339

CONDITIONS

|                                                                                |                                                     |
|--------------------------------------------------------------------------------|-----------------------------------------------------|
| Operator:<br>HILCORP ENERGY COMPANY<br>1111 Travis Street<br>Houston, TX 77002 | OGRID:<br>372171                                    |
|                                                                                | Action Number:<br>103339                            |
|                                                                                | Action Type:<br>[UF-GA] Gas Analysis (GAS ANALYSIS) |

CONDITIONS

| Created By | Condition                      | Condition Date |
|------------|--------------------------------|----------------|
| mkuehling  | BH 185 psi at time of sampling | 9/19/2022      |