



30-045-34824

2030 Afton Place  
Farmington, NM 87401  
(505) 325-6622Analysis No: HS190015  
Cust No: 35825-10985**Well/Lease Information**Customer Name: HILCORP (BHD PROJECT)  
Well Name: UTE INDIANS A #55; BHD  
County/State: LA PLATA NM  
Location: BARKER DOME  
Lease/PA/CA: AREA 2 / RUN 200  
Formation:  
Cust. Stn. No.: FR2701KCSource: BRADENHEAD  
Well Flowing: Y  
Pressure: 134 PSIG  
Flow Temp: 80 DEG. F  
Ambient Temp: 74 DEG. F  
Flow Rate: 0 MCF/D  
Sample Method: Purge & Fill  
Sample Date: 03/28/2019  
Sample Time: 3.50 PM  
Sampled By: KALAN DIBBLE  
Sampled by (CO): HILCORPHeat Trace: N  
Remarks: H2S**Analysis**

| Component:: | Mole%:   | Unnormalized %: | **GPM:  | *BTU:   | *SP Gravity: |
|-------------|----------|-----------------|---------|---------|--------------|
| Nitrogen    | 1.6189   | 1.5712          | 0.1790  | 0.00    | 0.0157       |
| CO2         | 0.1687   | 0.1637          | 0.0290  | 0.00    | 0.0026       |
| Methane     | 86.1201  | 83.5848         | 14.6370 | 869.81  | 0.4770       |
| Ethane      | 6.7633   | 6.5642          | 1.8130  | 119.69  | 0.0702       |
| Propane     | 3.6861   | 3.5776          | 1.0180  | 92.75   | 0.0561       |
| Iso-Butane  | 0.3697   | 0.3588          | 0.1210  | 12.02   | 0.0074       |
| N-Butane    | 0.8086   | 0.7848          | 0.2560  | 26.38   | 0.0162       |
| I-Pentane   | 0.1627   | 0.1579          | 0.0600  | 6.51    | 0.0041       |
| N-Pentane   | 0.1288   | 0.1250          | 0.0470  | 5.16    | 0.0032       |
| Hexane Plus | 0.1731   | 0.1680          | 0.0770  | 9.12    | 0.0057       |
| Total       | 100.0000 | 97.0560         | 18.2370 | 1141.45 | 0.6582       |

\* @ 14.730 PSIA DRY &amp; UNCORRECTED FOR COMPRESSIBILITY

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

COMPRESSIBILITY FACTOR (1/Z): 1.0028  
BTU/CU.FT IDEAL: 1144.1  
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1147.3  
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1127.3  
DRY BTU @ 15.025: 1170.3  
REAL SPECIFIC GRAVITY: 0.6598CYLINDER #: 4179  
CYLINDER PRESSURE: 59 PSIG  
ANALYSIS DATE: 04/02/2019  
ANALYSIS TIME: 09:59:31 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: 07/30/2019

GC Method: C6+ Gas



HILCORP (BHD PROJECT)  
WELL ANALYSIS COMPARISON

Lease: UTE INDIANS A #55; BHD  
Stn. No.: FR2701KC  
Mtr. No.:

BRADENHEAD

07/30/2019  
35825-10985

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Smpl Date: 03/28/2019  
Test Date: 04/02/2019  
Run No: HS190015  
  
Nitrogen: 1.6189  
CO2: 0.1687  
Methane: 86.1201  
Ethane: 6.7633  
Propane: 3.6861  
I-Butane: 0.3697  
N-Butane: 0.8086  
I-Pentane: 0.1627  
N-Pentane: 0.1288  
Hexane+: 0.1731  
  
BTU: 1147.3  
GPM: 18.2370  
SPG: 0.6598



30-045-34824

2030 Afton Place  
Farmington, NM 87401  
(505) 325-6622Analysis No: HS190016  
Cust No: 35825-10990**Well/Lease Information**Customer Name: HILCORP (BHD PROJECT)  
Well Name: UTE INDIANS A #55; CSG  
County/State: LA PLATA NM  
Location: BARKER DOME  
Lease/PA/CA: AREA 2 / RUN 200  
Formation:  
Cust. Stn. No.: FR2701KCSource: CASING  
Well Flowing: Y  
Pressure: 134 PSIG  
Flow Temp: 80 DEG. F  
Ambient Temp: 74 DEG. F  
Flow Rate: 0 MCF/D  
Sample Method: Purge & Fill  
Sample Date: 03/28/2019  
Sample Time: 3.50 PM  
Sampled By: KALAN DIBBLE  
Sampled by (CO): HILCORPHeat Trace: N  
Remarks: H2S**Analysis**

| Component:: | Mole%:   | Unnormalized %: | **GPM:  | *BTU:   | *SP Gravity: |
|-------------|----------|-----------------|---------|---------|--------------|
| Nitrogen    | 2.1319   | 1.8480          | 0.2350  | 0.00    | 0.0206       |
| CO2         | 0.1572   | 0.1363          | 0.0270  | 0.00    | 0.0024       |
| Methane     | 90.6345  | 78.5640         | 15.4040 | 915.41  | 0.5020       |
| Ethane      | 2.4449   | 2.1193          | 0.6560  | 43.27   | 0.0254       |
| Propane     | 1.3666   | 1.1846          | 0.3770  | 34.39   | 0.0208       |
| Iso-Butane  | 0.5283   | 0.4579          | 0.1730  | 17.18   | 0.0106       |
| N-Butane    | 0.8266   | 0.7165          | 0.2610  | 26.97   | 0.0166       |
| I-Pentane   | 0.5190   | 0.4499          | 0.1900  | 20.76   | 0.0129       |
| N-Pentane   | 0.4548   | 0.3942          | 0.1650  | 18.23   | 0.0113       |
| Hexane Plus | 0.9362   | 0.8115          | 0.4190  | 49.35   | 0.0310       |
| Total       | 100.0000 | 86.6822         | 17.9070 | 1125.55 | 0.6537       |

\* @ 14.730 PSIA DRY &amp; UNCORRECTED FOR COMPRESSIBILITY

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

COMPRESSIBILITY FACTOR (1/Z): 1.0028  
BTU/CU.FT IDEAL: 1128.2  
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1131.3  
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1111.6  
DRY BTU @ 15.025: 1154.0  
REAL SPECIFIC GRAVITY: 0.6552CYLINDER #: 4060  
CYLINDER PRESSURE: 28 PSIG  
ANALYSIS DATE: 04/02/2019  
ANALYSIS TIME: 10:21:07 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: 07/30/2019

GC Method: C6+ Gas



HILCORP (BHD PROJECT)  
WELL ANALYSIS COMPARISON

Lease: UTE INDIANS A #55; CSG  
Stn. No.: FR2701KC  
Mtr. No.:

CASING

07/30/2019  
35825-10990

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Smpl Date: 03/28/2019  
Test Date: 04/02/2019  
Run No: HS190016  
Nitrogen: 2.1319  
CO2: 0.1572  
Methane: 90.6345  
Ethane: 2.4449  
Propane: 1.3666  
I-Butane: 0.5283  
N-Butane: 0.8266  
I-Pentane: 0.5190  
N-Pentane: 0.4548  
Hexane+: 0.9362  
BTU: 1131.3  
GPM: 17.9070  
SPG: 0.6552





30-045-34824

2030 Afton Place  
Farmington, NM 87401  
(505) 325-6622Analysis No: HS190017  
Cust No: 35825-10995**Well/Lease Information**Customer Name: HILCORP (BHD PROJECT)  
Well Name: UTE INDIANS A #55; TBG  
County/State: LA PLATA NM  
Location: BARKER DOME  
Lease/PA/CA: AREA 2 / RUN 200  
Formation:  
Cust. Stn. No.: FR2701KCSource: TUBING  
Well Flowing: Y  
Pressure: 134 PSIG  
Flow Temp: 80 DEG. F  
Ambient Temp: 74 DEG. F  
Flow Rate: 0 MCF/D  
Sample Method: Purge & Fill  
Sample Date: 03/28/2019  
Sample Time: 3.50 PM  
Sampled By: KALAN DIBBLE  
Sampled by (CO): HILCORPHeat Trace: N  
Remarks: H2S**Analysis**

| Component:: | Mole%:   | Unnormalized %: | **GPM:  | *BTU:  | *SP Gravity: |
|-------------|----------|-----------------|---------|--------|--------------|
| Nitrogen    | 2.8571   | 2.8118          | 0.3150  | 0.00   | 0.0276       |
| CO2         | 14.9629  | 14.7257         | 2.5600  | 0.00   | 0.2274       |
| Methane     | 77.3192  | 76.0936         | 13.1430 | 780.92 | 0.4283       |
| Ethane      | 2.2725   | 2.2365          | 0.6090  | 40.22  | 0.0236       |
| Propane     | 0.9880   | 0.9723          | 0.2730  | 24.86  | 0.0150       |
| Iso-Butane  | 0.2761   | 0.2717          | 0.0910  | 8.98   | 0.0055       |
| N-Butane    | 0.4502   | 0.4431          | 0.1420  | 14.69  | 0.0090       |
| I-Pentane   | 0.2014   | 0.1982          | 0.0740  | 8.06   | 0.0050       |
| N-Pentane   | 0.1511   | 0.1487          | 0.0550  | 6.06   | 0.0038       |
| Hexane Plus | 0.5215   | 0.5132          | 0.2330  | 27.49  | 0.0173       |
| Total       | 100.0000 | 98.4148         | 17.4950 | 911.27 | 0.7625       |

\* @ 14.730 PSIA DRY &amp; UNCORRECTED FOR COMPRESSIBILITY

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

COMPRESSIBILITY FACTOR (1/Z): 1.0029  
BTU/CU.FT IDEAL: 913.4  
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 915.9  
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 900.0  
DRY BTU @ 15.025: 934.2  
REAL SPECIFIC GRAVITY: 0.7644CYLINDER #: 4084  
CYLINDER PRESSURE: 87 PSIG  
ANALYSIS DATE: 04/02/2019  
ANALYSIS TIME: 09:39:15 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: 07/30/2019

GC Method: C6+ Gas



HILCORP (BHD PROJECT)  
WELL ANALYSIS COMPARISON

Lease: UTE INDIANS A #55; TBG  
Stn. No.: FR2701KC  
Mtr. No.:

TUBING

07/30/2019  
35825-10995

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Smpl Date: 03/28/2019  
Test Date: 04/02/2019  
Run No: HS190017  
  
Nitrogen: 2.8571  
CO2: 14.9629  
Methane: 77.3192  
Ethane: 2.2725  
Propane: 0.9880  
I-Butane: 0.2761  
N-Butane: 0.4502  
I-Pentane: 0.2014  
N-Pentane: 0.1511  
Hexane+: 0.5215  
  
BTU: 915.9  
GPM: 17.4950  
SPG: 0.7644