



Well Name: SAN JUAN 30-6 #82; BHD

API #: 3003907794

Source: BRADENHEAD

Sample Type: GAS

Analysis No: HS20230134

Cust No: 35825-15135

### Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)

Well Name: SAN JUAN 30-6 #82; BHD

County/State: RIO ARRIBA NM

Location:

Lease/PA/CA: NMSF-080712

Formation: MV

Cust. Stn. No.: 3003907794  
72095

AREA 11 / RUN 1102

Heat Trace:

Remarks:

Source: BRADENHEAD

Well Flowing: N

Pressure: 33 PSIG

Flow Temp: 60 DEG. F

Ambient Temp: 82 DEG. F

Flow Rate: 90 MCF/D

Sample Method: Purge &amp; Fill

Sample Date: 07/06/2023

Sample Time: 11.20 AM

Sampled By: GREG FIERMAN

Sampled by (CO): HILCORP

### Analysis

| Component:: | Mole%:   | Unnormalized %: | **GPM:  | *BTU:   | *SP Gravity: |
|-------------|----------|-----------------|---------|---------|--------------|
| Nitrogen    | 0.1063   | 0.1081          | 0.0120  | 0.00    | 0.0010       |
| CO2         | 2.0427   | 2.0774          | 0.3500  | 0.00    | 0.0310       |
| Methane     | 87.3950  | 88.8816         | 14.8550 | 882.69  | 0.4841       |
| Ethane      | 6.3867   | 6.4953          | 1.7130  | 113.03  | 0.0663       |
| Propane     | 2.0653   | 2.1004          | 0.5700  | 51.97   | 0.0314       |
| Iso-Butane  | 0.4842   | 0.4924          | 0.1590  | 15.75   | 0.0097       |
| N-Butane    | 0.5280   | 0.5370          | 0.1670  | 17.22   | 0.0106       |
| I-Pentane   | 0.2228   | 0.2266          | 0.0820  | 8.91    | 0.0056       |
| N-Pentane   | 0.1430   | 0.1454          | 0.0520  | 5.73    | 0.0036       |
| Hexane Plus | 0.6260   | 0.6366          | 0.2800  | 33.00   | 0.0207       |
| Total       | 100.0000 | 101.7008        | 18.2400 | 1128.29 | 0.6640       |

\* @ 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: 1130.9  
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1134.2  
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1114.5  
 DRY BTU @ 15.025: 1156.9  
 REAL SPECIFIC GRAVITY: 0.6657

CYLINDER #: 2032  
 CYLINDER PRESSURE: 32 PSIG  
 ANALYSIS DATE: 07/13/2023  
 ANALYSIS TIME: 11:36:49 AM  
 ANALYSIS RUN BY: ACEDA GOODNOH

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: 07/18/2023

GC Method: C6+ Gas



HILCORP (BHD PROJECT)  
WELL ANALYSIS COMPARISON

Lease: SAN JUAN 30-6 #82; BHD  
Stn. No.: 3003907794  
Mtr. No.: 72095

BRADENHEAD  
MV

07/18/2023  
35825-15135

Smpl Date: 07/06/2023  
Test Date: 07/13/2023  
Run No: HS20230134

Nitrogen: 0.1063  
CO2: 2.0427  
Methane: 87.3950  
Ethane: 6.3867  
Propane: 2.0653  
I-Butane: 0.4842  
N-Butane: 0.5280  
I-Pentane: 0.2228  
N-Pentane: 0.1430  
Hexane+: 0.6260

BTU: 1134.2  
GPM: 18.2400  
SPG: 0.6657



Well Name: SAN JUAN 30-6 #82; CSG

API #: 3003907794

Source: CASING

Sample Type: GAS

Analysis No: HS20230135

Cust No: 35825-15140

### Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)  
 Well Name: SAN JUAN 30-6 #82; CSG  
 County/State: RIO ARRIBA NM  
 Location:  
 Lease/PA/CA: NMSF-080712  
 Formation: MV  
 Cust. Stn. No.: 3003907794  
 72095

Source: CASING  
 Well Flowing: N  
 Pressure: 37 PSIG  
 Flow Temp: 60 DEG. F  
 Ambient Temp: 82 DEG. F  
 Flow Rate: 90 MCF/D  
 Sample Method: Purge & Fill  
 Sample Date: 07/06/2023  
 Sample Time: 11.22 AM  
 Sampled By: GREG FIERMAN  
 Sampled by (CO): HILCORP

AREA 11 / RUN 1102

Heat Trace:

Remarks:

### Analysis

| Component:: | Mole%:   | Unnormalized %: | **GPM:  | *BTU:   | *SP Gravity: |
|-------------|----------|-----------------|---------|---------|--------------|
| Nitrogen    | 0.0990   | 0.0983          | 0.0110  | 0.00    | 0.0010       |
| CO2         | 1.9638   | 1.9498          | 0.3360  | 0.00    | 0.0298       |
| Methane     | 87.5023  | 86.8783         | 14.8740 | 883.77  | 0.4847       |
| Ethane      | 6.4058   | 6.3601          | 1.7180  | 113.36  | 0.0665       |
| Propane     | 2.0916   | 2.0767          | 0.5780  | 52.63   | 0.0318       |
| Iso-Butane  | 0.4612   | 0.4579          | 0.1510  | 15.00   | 0.0093       |
| N-Butane    | 0.4968   | 0.4933          | 0.1570  | 16.21   | 0.0100       |
| I-Pentane   | 0.2289   | 0.2273          | 0.0840  | 9.16    | 0.0057       |
| N-Pentane   | 0.1495   | 0.1484          | 0.0540  | 5.99    | 0.0037       |
| Hexane Plus | 0.6011   | 0.5968          | 0.2690  | 31.68   | 0.0199       |
| Total       | 100.0000 | 99.2869         | 18.2320 | 1127.80 | 0.6624       |

\* @ 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: 1130.4  
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1133.7  
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1114.0  
 DRY BTU @ 15.025: 1156.4  
 REAL SPECIFIC GRAVITY: 0.664

CYLINDER #: 2171  
 CYLINDER PRESSURE: 20 PSIG  
 ANALYSIS DATE: 07/13/2023  
 ANALYSIS TIME: 11:36:12 AM  
 ANALYSIS RUN BY: SARAH BALLARD

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: 07/18/2023

GC Method: C6+ Gas



HILCORP (BHD PROJECT)  
WELL ANALYSIS COMPARISON

Lease: SAN JUAN 30-6 #82; CSG  
Stn. No.: 3003907794  
Mtr. No.: 72095

CASING  
MV

07/18/2023  
35825-15140

Smpl Date: 07/06/2023  
Test Date: 07/13/2023  
Run No: HS20230135

Nitrogen: 0.0990  
CO2: 1.9638  
Methane: 87.5023  
Ethane: 6.4058  
Propane: 2.0916  
I-Butane: 0.4612  
N-Butane: 0.4968  
I-Pentane: 0.2289  
N-Pentane: 0.1495  
Hexane+: 0.6011

BTU: 1133.7  
GPM: 18.2320  
SPG: 0.6640

**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 243197

CONDITIONS

|                                                                                |                                                     |
|--------------------------------------------------------------------------------|-----------------------------------------------------|
| Operator:<br>HILCORP ENERGY COMPANY<br>1111 Travis Street<br>Houston, TX 77002 | OGRID:<br>372171                                    |
|                                                                                | Action Number:<br>243197                            |
|                                                                                | Action Type:<br>[UF-GA] Gas Analysis (GAS ANALYSIS) |

CONDITIONS

| Created By | Condition            | Condition Date |
|------------|----------------------|----------------|
| mkuehling  | same gas all strings | 9/22/2023      |