



Well Name: SHAW GC 1C; CSG  
 API #: API # 300453218400  
 Source: CASING  
 Sample Type: GAS  
 Analysis No: SO200159  
 Cust No: 15950-12155

### Well/Lease Information

|                 |                                                     |                  |              |
|-----------------|-----------------------------------------------------|------------------|--------------|
| Customer Name:  | BP - SOUTH BHD PROJECT                              | Source:          | CASING       |
| Well Name:      | SHAW GC 1C; CSG                                     | Well Flowing:    | Y            |
| County/State:   | SAN JUAN NM                                         | Pressure:        | 8 PSIG       |
| Location:       |                                                     | Flow Temp:       | DEG. F       |
| Lease/PA/CA:    |                                                     | Ambient Temp:    | 84 DEG. F    |
| Formation:      |                                                     | Flow Rate:       | MCF/D        |
| Cust. Stn. No.: | API # 300453218400<br>85339                         | Sample Method:   | Purge & Fill |
|                 |                                                     | Sample Date:     | 09/23/2020   |
|                 |                                                     | Sample Time:     | 6.20 PM      |
|                 |                                                     | Sampled By:      | TONY FELIX   |
| Heat Trace:     | N                                                   | Sampled by (CO): | ABC          |
| Remarks:        | PRESSURED WITH HELIUM TO 30LBS. CO-MINGLE TBG / CSG |                  |              |

### Analysis

| Component:: | Mole%:   | Unnormalized %: | **GPM:  | *BTU:   | *SP Gravity: |
|-------------|----------|-----------------|---------|---------|--------------|
| Nitrogen    | 0.1580   | 0.0744          | 0.0170  | 0.00    | 0.0015       |
| CO2         | 1.6152   | 0.7604          | 0.2770  | 0.00    | 0.0245       |
| Methane     | 83.7201  | 39.4125         | 14.2380 | 845.57  | 0.4637       |
| Ethane      | 7.4674   | 3.5154          | 2.0030  | 132.15  | 0.0775       |
| Propane     | 3.4525   | 1.6253          | 0.9540  | 86.87   | 0.0526       |
| Iso-Butane  | 0.6857   | 0.3228          | 0.2250  | 22.30   | 0.0138       |
| N-Butane    | 0.9963   | 0.4690          | 0.3150  | 32.50   | 0.0200       |
| I-Pentane   | 0.4015   | 0.1890          | 0.1470  | 16.06   | 0.0100       |
| N-Pentane   | 0.3004   | 0.1414          | 0.1090  | 12.04   | 0.0075       |
| Hexane Plus | 1.2029   | 0.5663          | 0.5380  | 63.41   | 0.0398       |
| Total       | 100.0000 | 47.0765         | 18.8230 | 1210.90 | 0.7109       |

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

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

|                                      |        |                    |               |
|--------------------------------------|--------|--------------------|---------------|
| COMPRESSIBILITY FACTOR (1/Z):        | 1.0034 | CYLINDER #:        | 1096          |
| BTU/CU.FT IDEAL:                     | 1213.7 | CYLINDER PRESSURE: | PSIG          |
| BTU/CU.FT (DRY) CORRECTED FOR (1/Z): | 1217.8 | ANALYSIS DATE:     | 09/28/2020    |
| BTU/CU.FT (WET) CORRECTED FOR (1/Z): | 1196.6 | ANALYSIS TIME:     | 03:09:37 PM   |
| DRY BTU @ 15.025:                    | 1242.2 | ANALYSIS RUN BY:   | PATRICIA KING |
| REAL SPECIFIC GRAVITY:               | 0.7131 |                    |               |

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: 09/29/2020

GC Method: C6+ Gas



BP - SOUTH BHD PROJECT  
WELL ANALYSIS COMPARISON

Lease: SHAW GC 1C; CSG  
Stn. No.: API #  
Mtr. No.: 85339

CASING

09/29/2020  
15950-12155

---

Smpl Date: 09/23/2020  
Test Date: 09/28/2020  
Run No: SO200159  
  
Nitrogen: 0.1580  
CO2: 1.6152  
Methane: 83.7201  
Ethane: 7.4674  
Propane: 3.4525  
I-Butane: 0.6857  
N-Butane: 0.9963  
I-Pentane: 0.4015  
N-Pentane: 0.3004  
Hexane+: 1.2029  
  
BTU: 1217.8  
GPM: 18.8230  
SPG: 0.7131