



2030 Afton Place  
Farmington, NM 87401  
(505) 325-6622

Analysis No: TC180008  
Cust No: 73850-10030

### Well/Lease Information

Customer Name: TACITUS LLC  
Well Name: NAVAJO TRIBAL U #16  
County/State: SAN JUAN NM  
Location:  
Field:  
Formation: MISSISSIPPIAN  
Cust. Stn. No.:

Source: CASING  
Well Flowing:  
Pressure: 112 PSIG  
Flow Temp: DEG. F  
Ambient Temp: 55 DEG. F  
Flow Rate: 350 MCF/D  
Sample Method: Purge & Fill  
Sample Date: 10/04/2018  
Sample Time: 7.30 AM  
Sampled By: RUSS MCQUITTY  
Sampled by (CO): TACITUS

Heat Trace:  
Remarks: FLOW RATE 350 +/-

NMOC  
DEC 19 2018  
DISTRICT III

### Analysis

| Component: | Mole%:   | Unnormalized %: | **GPM: | *BTU: | *SP Gravity: |
|------------|----------|-----------------|--------|-------|--------------|
| Helium     | 7.6030   | 7.8300          | 0.7730 | 0.00  | 0.0105       |
| Nitrogen   | 90.5570  | 93.2610         | 9.9630 | 0.00  | 0.8759       |
| CO2        | 0.1117   | 0.1150          | 0.0190 | 0.00  | 0.0017       |
| Methane    | 1.5011   | 1.5460          | 0.2540 | 15.16 | 0.0083       |
| Ethane     | 0.0097   | 0.0100          | 0.0030 | 0.17  | 0.0001       |
| Propane    | 0.0243   | 0.0250          | 0.0070 | 0.61  | 0.0004       |
| Iso-Butane | 0.0184   | 0.0190          | 0.0060 | 0.60  | 0.0004       |
| N-Butane   | 0.0602   | 0.0620          | 0.0190 | 1.96  | 0.0012       |
| I-Pentane  | 0.0136   | 0.0140          | 0.0050 | 0.54  | 0.0003       |
| N-Pentane  | 0.0214   | 0.0220          | 0.0080 | 0.86  | 0.0005       |
| C6         | 0.0479   | 0.0820          | 0.0200 | 2.28  | 0.0014       |
| C7         | 0.0234   | N/R             | 0.0110 | 1.29  | 0.0008       |
| C8         | 0.0066   | N/R             | 0.0030 | 0.41  | 0.0003       |
| C9P        | 0.0017   | N/R             | 0.0010 | 0.12  | 0.0001       |
| Total      | 100.0000 | 102.9860        | 11.092 | 24.01 | 0.9019       |

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

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

COMPRESSIBILITY FACTOR (1/Z): 1.0003  
BTU/CU.FT IDEAL: 24.1  
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 24.1  
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 23.7  
DRY BTU @ 15.025: 24.6  
REAL SPECIFIC GRAVITY: 0.9018

CYLINDER #: 5004  
CYLINDER PRESSURE: 114 PSIG  
ANALYSIS DATE: 10/11/2018  
ANALYSIS TIME: 04:11:51 PM  
ANALYSIS RUN BY: DAWN BLASSINGAME

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

GPA Standard: GPA 2286-14

GC: SRI Instruments 8610 Last Cal/Verify: 10/11/2018

GC Method: C9+ Gas