

**GAS QUALITY ANALYTICAL AND CALCULATION METHODS AND PROCEDURES
DOCUMENTS AND STANDARDS**

| Procedure/Method | Related Industry Standard |
|---------------------------|--|
| Spot or Composite Sample | API 14.1, GPA 2166 |
| Online Gas Chromatograph | API 14.1, GPA 2145, GPA 2261 |
| Lab Chromatograph | GPA 2172, GPA 2145, GPA 2261, GPA 2198, GPA 2286 |
| GPM Calculation | GPA 2145 |
| Heating Value Calculation | API 14.1, GPA 2145, GPA 2172, AGA 5, AGA 8 |
| H ₂ S | ASTM 4810; Length of Stain Tube Method; Equipment Manufacturer's Recommended Practice |
| Total Sulfur | ASTM D 3246; Equipment Manufacturer's Recommended Practice |
| H ₂ O | Length of Stain Tube Method; GPA 2145; Equipment Manufacturer's Recommended Practice |
| HDP Calculation | Soave Redlich Kwong or Peng Robinson Equation of State |
| HDP Measurement | Bureau of Mines Chilled Mirror Apparatus |

Effective November 1, 2013