



OILFIELD ENVIRONMENTAL & COMPLIANCE, INC.

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|--------------|----------------------|
| Client: | SAMPLE ID: 1200287-1 |
| | Date Sampled: |
| | Date Analyzed: |
| Attn: | Lab Contact: |
| Facility: | Meter: |
| Description: | Pressure: 46 psig |
| Note: | Temperature: 140 °F |

| Component | Mole % | Weight % | Liq. Vol % | |
|------------------------|--------------|--------------|--------------|-----------------|
| Oxygen | 0.00 | 0.00 | 0.00 | |
| Nitrogen | 0.47 | 0.30 | 0.28 | |
| Carbon Dioxide | 57.51 | 58.36 | 52.73 | |
| Hydrogen Sulfide | 24.90 | 19.56 | 18.06 | |
| Methane | 0.20 | 0.07 | 0.18 | |
| Ethane | 1.90 | 1.32 | 2.73 | |
| Propane | 4.79 | 4.87 | 7.09 | |
| i-Butane | 1.89 | 2.54 | 3.33 | Gas/Water Ratio |
| n-Butane | 2.82 | 3.78 | 4.77 | |
| i-Pentane | 3.64 | 6.05 | 7.15 | 6.147 scf/STB |
| n-Pentane | 1.89 | 3.15 | 3.69 | |
| Cyclohexane | 0.00 | 0.00 | 0.00 | |
| Heptanes | 0.00 | 0.00 | 0.00 | |
| Octanes | 0.00 | 0.00 | 0.00 | |
| Nonanes | 0.00 | 0.00 | 0.00 | |
| Decanes+ | 0.00 | 0.00 | 0.00 | |
| N-Hexane | 0.00 | 0.00 | 0.00 | |
| 2,2,4-Trimethylpentane | 0.00 | 0.00 | 0.00 | |
| Benzene | 0.00 | 0.00 | 0.00 | |
| Toluene | 0.00 | 0.00 | 0.00 | |
| Ethylbenzene | 0.00 | 0.00 | 0.00 | |
| Xylene | 0.00 | 0.00 | 0.00 | |
| Totals | 100.0 | 100.0 | 100.0 | |

| | | | |
|---|-------|-----------------------|--------------------|
| Specific Gravity-Flashed Gas (60 °F) = | 1.50 | g/cc | (air = 1.000 g/cc) |
| API Gravity-Flashed Gas = | -37.0 | API | Calc. |
| Ave. Molecular Weight-Flashed Gas = | 43.37 | | Calc. |
| Cubic Feet of Gas/Gallon of Liquid (as Ideal Gas) | 58.2 | ft ³ /gal. | Calc. |
| Pounds Gas/Gallon of Liquid | 13.7 | lb/gal. | Calc. |
| Methods: EPA 8015/8021B, EPA 18, EPA 15/16, CARB, ASTM D-4007, D-1945, D-2597, D-3588, D-287, D-323 | | | |
| All calculations used physical constants from GPA 2145-09 & GPA TP-17 at 14.696 psia and 60 °F. | | | |

Julius G. Carstens, Lab Director