



PRIMARY DB KEY: NAME/DESCRIP: STATE - KOENIG 1
 LEASE #: FIELD/ AREA:
 PROJECT NO.: 201908133 ANALYSIS NO.: 04
 COMPANY NAME: RENEGADE OIL & GAS COMPANY ANALYSIS DATE: AUGUST 28, 2019 07:27
 OFFICE / BRANCH: AURORA, CO SAMPLE DATE: AUGUST 20, 2019
 CUSTOMER REF: TO:
 PRODUCER: EFFECTIVE DATE:
*****FIELD DATA*****
 SAMPLE CYCLE: SAMPLE TYPE:
 SAMPLE PRES.: 15 psig PROBE: NO
 FLOW PRES.: psig CYLINDER NO.: 1010
 LAB PRES.: psig SAMPLED BY: CODY BAYLIS
 SAMPLE TEMP.: 75 °F SAMPLING COMPANY: RENEGADE
 AMBIENT TEMP.: °F H2S BY STAIN TUBE: 2 ppm
 H2O BY STAIN TUBE: #/mmcf CO2 BY STAIN TUBE: Mol %
 FIELD COMMENTS:
 LAB COMMENTS:

| COMPONENTS | NORM. MOLE% | GPM @ 14.65 | GPM @ 14.73 |
|---|----------------|----------------|----------------|
| HELIUM | 0.02 | - | - |
| HYDROGEN | 0.00 | - | - |
| OXYGEN/ARGON | 0.01 | - | - |
| NITROGEN | 2.38 | - | - |
| CO2 | 2.15 | - | - |
| METHANE | 51.91 | - | - |
| ETHANE | 9.63 | 2.5802 | 2.5943 |
| PROPANE | 16.66 | 4.5980 | 4.6231 |
| ISOBUTANE | 2.07 | 0.6789 | 0.6827 |
| N-BUTANE | 8.27 | 2.6123 | 2.6266 |
| ISOPENTANE | 1.82 | 0.6669 | 0.6705 |
| N-PENTANE | 2.17 | 0.7884 | 0.7927 |
| HEXANES+ | 2.91 | 1.2655 | 1.2724 |
| TOTAL | 100.00 | 13.1902 | 13.2623 |
| BTU @ 60 DEG F | | 14.65 | 14.73 |
| GROSS DRY REAL = | | 1767.8 /scf | 1777.4 /scf |
| GROSS SATURATED REAL = | | 1736.9 /scf | 1746.5 /scf |
| RELATIVE DENSITY (AIR=1 @14.696 PSIA 60F) | | 1.0974 | |
| GRAVITY (LB/SCF) | | 0.08376 | |
| COMPRESSIBILITY FACTOR : | | 0.99254 | |

NOTE: REFERENCE GPA 2261 (ASTM D1945 & ASME-PTC), 2145, & 2172 CURRENT PUBLICATIONS

Reference: Per GPA 2172-14 sec 9 **The C6+ is derived from the following ratios of C6, C7 & C8+ respectively: 60% 30% 10%**

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