



ISOTOPIC NATURAL GAS ANALYSIS

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| PRIMARY DB KEY: 05-045-10894 | NAME/DESCRIP : 110165200 NP O23 WF16B 596 |
| LEASE #: | CASING |
| FIELD/AREA: | |
| PROJECT NO. : 202503052 | ANALYSIS NO. : 02 |
| COMPANY NAME : QB ENERGY OPERATING, LLC | ANALYSIS DATE: MARCH 25, 2025 00:00 |
| OFFICE / BRANCH: PARACHUTE, CO | SAMPLE DATE : FEBRUARY 28, 2025 12:00 |
| CUSTOMER REF: | TO: |
| PRODUCER : QB ENERGY OPERATING, LLC | EFFECTIVE DATE: |

*****FIELD DATA*****

| | |
|------------------------------------|-------------------------------------|
| SAMPLE CYCLE: | SAMPLE TYPE: SPOT |
| SAMPLE PRES. : 475 psig | PROBE : NO |
| FLOW PRES. : psig | CYLINDER NO. : TBI-558 |
| LAB PRES: psig | SAMPLED BY : ELDON KING |
| SAMPLE TEMP. : 51 °f | SAMPLING COMPANY: QB ENERGY |
| AMBIENT TEMP.: °f | H2S BY STAIN TUBE: - ppm mol |
| H2O BY STAIN TUBE: - #/mmcf | CO2 BY STAIN TUBE: - Mol % |
| FIELD COMMENTS: | |
| LAB COMMENTS: | |

| COMPONENTS | NORM. MOLE% | GPM @ 14.65 | d13C ‰ VPDB | dD ‰ VSMOW |
|--------------|----------------|----------------|----------------|---------------|
| HELIUM | 0.01 | - | - | - |
| HYDROGEN | 0.01 | - | - | - |
| OXYGEN/ARGON | 0.00 | - | - | - |
| NITROGEN | 0.07 | - | - | - |
| CO2 | 4.14 | - | -3.9 | - |
| METHANE | 89.43 | - | -30.7 | -169 |
| ETHANE | 4.57 | 1.2181 | -24.6 | - |
| PROPANE | 0.96 | 0.2638 | -24.3 | - |
| ISOBUTANE | 0.25 | 0.0849 | -23.8 | - |
| N-BUTANE | 0.17 | 0.0530 | -24.4 | - |
| ISOPENTANE | 0.10 | 0.0330 | -23.5 | - |
| N-PENTANE | 0.05 | 0.0180 | 0.0 | - |
| HEXANES+ | 0.23 | 0.0869 | - | - |
| TOTAL | 100.00 | 1.7577 | | |

BTU @ 60 DEG F

| | |
|------------------------|--------------|
| | 14.65 |
| GROSS DRY REAL = | 1037.9 /scf |
| GROSS SATURATED REAL = | 1019.8 /scf |

| | |
|---|---------|
| RELATIVE DENSITY (AIR=1 @14.696 PSIA 60F) | 0.6395 |
| GRAVITY (LB/SCF) | 0.04882 |
| COMPRESSIBILITY FACTOR : | 0.99760 |

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%**

The NG Composition File #: **202503052-02-A-372**
 The Isotopic Data File #: **DIG-039224**

Note: Stable isotope results based on multi-point laboratory calibration

Precision δ¹³C < 0.5 ‰ Precision δD < 5.0 ‰

Values in red represent low peak heights. Interpret with caution.

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