



ISOTOPIC NATURAL GAS ANALYSIS

PRIMARY DB KEY: **05-103-10735** NAME/DESCRIP : **125190121 PCU 297-10A9**
 LEASE #: **COD52141** PRODUCTION CASING
 FIELD/AREA: **PICEANCE CREEK**

PROJECT NO. : **202603079** ANALYSIS NO. : **02**
 COMPANY NAME : **QB ENERGY OPERATING, LLC** ANALYSIS DATE: **APRIL 03, 2026 00:00**
 OFFICE / BRANCH: **PARACHUTE, CO** SAMPLE DATE : **MARCH 5, 2026**
 CUSTOMER REF: TO:
 PRODUCER : **QB ENERGY OPERATING LLC** EFFECTIVE DATE:

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

SAMPLE CYCLE: SAMPLE TYPE: **SPOT**
 SAMPLE PRES. : 1484 psig PROBE : **NO**
 FLOW PRES. : psig CYLINDER NO. : **TBI-554**
 LAB PRES: psig SAMPLED BY : **MIKE KELLEY**
 SAMPLE TEMP. : 40 °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: **Possible moisture observed.**

COMPONENTS	NORM. MOLE%	GPM @ 14.65	d13C ‰ VPDB	dD ‰ VSMOW
HELIUM	0.00	-	-	-
HYDROGEN	0.00	-	-	-
OXYGEN/ARGON	0.00	-	-	-
NITROGEN	0.08	-	-	-
CO2	5.14	-	-2.5	-
METHANE	92.38	-	-34.8	-152
ETHANE	1.68	0.4476	-25.3	-
PROPANE	0.24	0.0659	-23.3	-
ISOBUTANE	0.08	0.0260	-23.1	-
N-BUTANE	0.04	0.0130	-23.2	-
ISOPENTANE	0.03	0.0110	-23.1	-
N-PENTANE	0.02	0.0070	0.0	-
HEXANES+	0.32	0.2767	-	-
TOTAL	100.00	0.8472		

BTU @ 60 DEG F

14.65
 GROSS DRY REAL = 1003.4 /scf
 GROSS SATURATED REAL = 985.9 /scf

RELATIVE DENSITY (AIR=1 @14.696 PSIA 60F) 0.6339
 GRAVITY (LB/SCF) 0.04838
 COMPRESSIBILITY FACTOR : 0.99780

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 #: **202603079-02-A-675**
 The Isotopic Data File #: **DIG-043339**

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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