



ISOTOPIC NATURAL GAS ANALYSIS

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

PROJECT NO. : **202603079** ANALYSIS NO. : **01**
 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. : 1548 psig PROBE : **NO**
 FLOW PRES. : psig CYLINDER NO. : **ECA-809**
 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	0.07	-	-	-
OXYGEN/ARGON	0.00	-	-	-
NITROGEN	0.07	-	-	-
CO2	0.03	-	0.0	-
METHANE	90.42	-	-37.1	-179
ETHANE	5.57	1.4792	-26.9	-
PROPANE	1.68	0.4618	-25.9	-
ISOBUTANE	0.38	0.1239	-25.7	-
N-BUTANE	0.39	0.1189	-25.6	-
ISOPENTANE	0.20	0.0690	-25.0	-
N-PENTANE	0.15	0.0540	-25.5	-
HEXANES+	1.04	0.5447	-	-
TOTAL	100.00	2.8515		

BTU @ 60 DEG F

14.65
 GROSS DRY REAL = 1154.5 /scf
 GROSS SATURATED REAL = 1134.3 /scf

RELATIVE DENSITY (AIR=1 @14.696 PSIA 60F) 0.6483
 GRAVITY (LB/SCF) 0.04949
 COMPRESSIBILITY FACTOR : 0.99740

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 #: **202603079-01-A-674**
 The Isotopic Data File #: **DIG-043338**

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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