



ISOTOPIC NATURAL GAS ANALYSIS

PRIMARY DB KEY: **05-103-10877** NAME/DESCRIP : **125190189 PCU 297-13A9**
 LEASE #: **COD052141** INTERMEDIATE CASING
 FIELD/AREA: **PICEANCE CREEK**

PROJECT NO. : **202603077** ANALYSIS NO. : **01**
 COMPANY NAME : **QB ENERGY OPERATING, LLC** ANALYSIS DATE: **APRIL 07, 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. : **530** psig PROBE : **NO**
 FLOW PRES. : psig CYLINDER NO. : **TBI-576**
 LAB PRES: psig SAMPLED BY : **MIKE KELLEY**
 SAMPLE TEMP. : **46** °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	0.00	-	-	-
HYDROGEN	0.14	-	-	-
OXYGEN/ARGON	0.00	-	-	-
NITROGEN	0.08	-	-	-
CO2	2.56	-	-6.4	-
METHANE	87.15	-	-37.6	-168
ETHANE	6.77	1.8052	-27.5	-
PROPANE	1.91	0.5248	-24.8	-
ISOBUTANE	0.46	0.1499	-24.5	-
N-BUTANE	0.38	0.1189	-23.4	-
ISOPENTANE	0.19	0.0660	-24.1	-
N-PENTANE	0.11	0.0400	-23.3	-
HEXANES+	0.24	0.1169	-	-
TOTAL	100.00	2.8217		

BTU @ 60 DEG F

14.65
 GROSS DRY REAL = **1100.8** /scf
 GROSS SATURATED REAL = **1081.6** /scf

RELATIVE DENSITY (AIR=1 @14.696 PSIA 60F) **0.6546**
 GRAVITY (LB/SCF) **0.04995**
 COMPRESSIBILITY FACTOR : **0.99730**

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 #: **202603077-01-A-674**
 The Isotopic Data File #: **DIG-043342**

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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