



ISOTOPIC NATURAL GAS ANALYSIS

PRIMARY DB KEY: **05-103-11372** NAME/DESCRIP : **PICEANCE CREEK UNIT 297-11B7**
 LEASE #: **PRODUCTION CASING**
 FIELD/AREA:

PROJECT NO. : **202509091** ANALYSIS NO. : **01**
 COMPANY NAME : **QB ENERGY OPERATING, LLC** ANALYSIS DATE: **OCTOBER 03, 2025 00:00**
 OFFICE / BRANCH: **PARACHUTE, CO** SAMPLE DATE : **SEPTEMBER 08, 2025**
 CUSTOMER REF: TO:
 PRODUCER : EFFECTIVE DATE:

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

SAMPLE CYCLE: SAMPLE TYPE:
 SAMPLE PRES. : 1052 psig PROBE :
 FLOW PRES. : psig CYLINDER NO. : **TBI/CO-590**
 LAB PRES: psig SAMPLED BY : **NICK CROY**
 SAMPLE TEMP. : °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	2.14	-	-	-
OXYGEN/ARGON	0.00	-	-	-
NITROGEN	0.11	-	-	-
CO2	0.20	-	0.0	-
METHANE	90.60	-	-37.1	-176
ETHANE	4.86	1.3009	-26.6	-
PROPANE	1.16	0.3217	-24.8	-
ISOBUTANE	0.27	0.0879	-24.6	-
N-BUTANE	0.19	0.0629	-23.6	-
ISOPENTANE	0.08	0.0260	0.0	-
N-PENTANE	0.04	0.0140	0.0	-
HEXANES+	0.35	0.0000	-	-
TOTAL	100.00	1.8134		

BTU @ 60 DEG F

14.65

GROSS DRY REAL = 1059.7 /scf
 GROSS SATURATED REAL = 1041.2 /scf

RELATIVE DENSITY (AIR=1 @14.696 PSIA 60F) 0.5899
 GRAVITY (LB/SCF) 0.04502
 COMPRESSIBILITY FACTOR : 0.99770

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 #: **202509091-01-A-526**
 The Isotopic Data File #: **DIG-041579**

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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