



ISOTOPIC NATURAL GAS ANALYSIS

PRIMARY DB KEY: **05-103-11059** NAME/DESCRIP : **YCF 2-22-0246**
 LEASE #: **PRODUCTION CASING**
 FIELD/AREA: **YELLOW CREEK**

PROJECT NO. : **202511012** ANALYSIS NO. : **01**
 COMPANY NAME : **QB ENERGY OPERATING, LLC** ANALYSIS DATE: **NOVEMBER 17, 2025 00:00**
 OFFICE / BRANCH: **PARACHUTE, CO** SAMPLE DATE : **OCTOBER 13, 2025**
 CUSTOMER REF: **TO:**
 PRODUCER : **QB ENERGY OPERATING LLC** EFFECTIVE DATE:

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

SAMPLE CYCLE: SAMPLE TYPE:
 SAMPLE PRES. : 160 psig PROBE :
 FLOW PRES. : psig CYLINDER NO. : 1008
 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: *Low sample volume.*

COMPONENTS	NORM. MOLE%	GPM @ 14.65	d13C % VPDB	dD % VSMOW
HELIUM	0.01	-	-	-
HYDROGEN	0.00	-	-	-
OXYGEN/ARGON	2.70	-	-	-
NITROGEN	10.14	-	-	-
CO2	0.90	-	-7.5	-
METHANE	74.19	-	-40.2	-189
ETHANE	6.18	1.6560	-28.7	-
PROPANE	2.51	0.6916	-26.5	-
ISOBUTANE	0.68	0.2219	-27.1	-
N-BUTANE	0.79	0.2478	-26.2	-
ISOPENTANE	0.42	0.1419	-26.4	-
N-PENTANE	0.30	0.1079	-25.6	-
HEXANES+	1.18	0.3588	-	-
TOTAL	100.00	3.4259		

BTU @ 60 DEG F

14.65
 GROSS DRY REAL = 1042.9 /scf
 GROSS SATURATED REAL = 1024.7 /scf

RELATIVE DENSITY (AIR=1 @14.696 PSIA 60F) 0.7309
 GRAVITY (LB/SCF) 0.05578
 COMPRESSIBILITY FACTOR : 0.99750

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 #: **202511012-01-A-563**
 The Isotopic Data File #: **DIG-042222**

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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