



ISOTOPIC NATURAL GAS ANALYSIS

PRIMARY DB KEY: **05-103-10403** NAME/DESCRIP : **YCF 33-43-1**
 LEASE #: **05-103-10403** INTERMEDIATE CASING
 FIELD/AREA: **YELLOW CREEK**

PROJECT NO. : **202512130** ANALYSIS NO. : **02**
 COMPANY NAME : **QB ENERGY OPERATING, LLC** ANALYSIS DATE: JANUARY 13, 2026 00:00
 OFFICE / BRANCH: **PARACHUTE, CO** SAMPLE DATE : DECEMBER 4, 2025
 CUSTOMER REF: TO:
 PRODUCER : **QB ENERGY OPERATING, LLC** EFFECTIVE DATE:

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

SAMPLE CYCLE: SAMPLE TYPE:
 SAMPLE PRES. : 76 psig PROBE :
 FLOW PRES. : psig CYLINDER NO. : TBI/CO-594
 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	0.02	-	-	-
HYDROGEN	0.02	-	-	-
OXYGEN/ARGON	0.00	-	-	-
NITROGEN	0.52	-	-	-
CO2	0.02	-	0.0	-
METHANE	89.10	-	-39.3	-151
ETHANE	6.34	1.6903	-26.3	-
PROPANE	2.24	0.6157	-25.3	-
ISOBUTANE	0.47	0.1529	-24.8	-
N-BUTANE	0.55	0.1729	-25.3	-
ISOPENTANE	0.21	0.0690	-24.5	-
N-PENTANE	0.17	0.0610	-24.6	-
HEXANES+	0.35	0.1689	-	-
TOTAL	100.00	2.9307		

BTU @ 60 DEG F

14.65
 GROSS DRY REAL = 1135.4 /scf
 GROSS SATURATED REAL = 1115.6 /scf

RELATIVE DENSITY (AIR=1 @14.696 PSIA 60F) 0.6405
 GRAVITY (LB/SCF) 0.04889
 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 #: **202512130-02-A-608**
 The Isotopic Data File #: **DIG-042538**

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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