



ISOTOPIC NATURAL GAS ANALYSIS

PRIMARY DB KEY: **05-103-11104** NAME/DESCRIP : **YCF 27-32-1**
 LEASE #: **SURFACE CASING**
 FIELD/AREA:

PROJECT NO. : **202508079** ANALYSIS NO. : **01**
 COMPANY NAME : **QB ENERGY OPERATING, LLC** ANALYSIS DATE: **SEPTEMBER 04, 2025 00:00**
 OFFICE / BRANCH: **PARACHUTE, CO** SAMPLE DATE : **AUGUST 08, 2028 08:30**
 CUSTOMER REF: TO:
 PRODUCER : EFFECTIVE DATE:

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

SAMPLE CYCLE: SAMPLE TYPE:
 SAMPLE PRES. : 1345 psig PROBE :
 FLOW PRES. : psig CYLINDER NO. : **ECA-774**
 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	0.06	-	-	-
OXYGEN/ARGON	0.00	-	-	-
NITROGEN	0.16	-	-	-
CO2	0.12	-	0.0	-
METHANE	90.47	-	-41.6	-185
ETHANE	6.46	1.7279	-28.7	-
PROPANE	1.67	0.4587	-28.2	-
ISOBUTANE	0.35	0.1179	-32.0	-
N-BUTANE	0.24	0.0750	-29.4	-
ISOPENTANE	0.05	0.0180	0.0	-
N-PENTANE	0.02	0.0070	0.0	-
HEXANES+	0.39	0.0040	-	-
TOTAL	100.00	2.4085		

BTU @ 60 DEG F

14.65

GROSS DRY REAL = 1096.3 /scf
 GROSS SATURATED REAL = 1077.1 /scf

RELATIVE DENSITY (AIR=1 @14.696 PSIA 60F) 0.6133
 GRAVITY (LB/SCF) 0.04681
 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 #: **202508079-01-A-501**
 The Isotopic Data File #: **DIG-041001**

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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