



ISOTOPIC NATURAL GAS ANALYSIS

PRIMARY DB KEY: **05-045-13539** NAME/DESCRIP : **CP11A-16 E16 596**
 LEASE #: **05-045-13539** **INTERMEDIATE CASING**
 FIELD/AREA: **GRAND VALLEY**

PROJECT NO. : **202512131** ANALYSIS NO. : **02**
 COMPANY NAME : **QB ENERGY OPERATING, LLC** ANALYSIS DATE: **JANUARY 13, 2026 00:00**
 OFFICE / BRANCH: **PARACHUTE, CO** SAMPLE DATE : **DECEMBER 29, 2025**
 CUSTOMER REF: TO:
 PRODUCER : **QB ENERGY OPERATING, LLC** EFFECTIVE DATE:

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

SAMPLE CYCLE: SAMPLE TYPE:
 SAMPLE PRES. : 500 psig PROBE :
 FLOW PRES. : psig CYLINDER NO. : **ECA-814**
 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	0.01	-	-	-
OXYGEN/ARGON	0.00	-	-	-
NITROGEN	0.07	-	-	-
CO2	6.04	-	-3.0	-
METHANE	88.42	-	-35.5	-176
ETHANE	4.21	1.1222	-24.8	-
PROPANE	0.66	0.1839	-22.1	-
ISOBUTANE	0.18	0.0590	-22.0	-
N-BUTANE	0.08	0.0250	-20.6	-
ISOPENTANE	0.08	0.0260	-21.2	-
N-PENTANE	0.04	0.0140	-20.3	-
HEXANES+	0.20	0.0949	-	-
TOTAL	100.00	1.5250		

BTU @ 60 DEG F

14.65
 GROSS DRY REAL = **1007.9** /scf
 GROSS SATURATED REAL = **990.3** /scf

RELATIVE DENSITY (AIR=1 @14.696 PSIA 60F) 0.651
 GRAVITY (LB/SCF) 0.04968
 COMPRESSIBILITY FACTOR : 0.99760

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 #: **202512131-02-A-608**
 The Isotopic Data File #: **DIG-042541**

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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