



ISOTOPIC NATURAL GAS ANALYSIS

PRIMARY DB KEY: **05-045-15099** NAME/DESCRIP : **110165736 NP I30A EF 06A-30 595**
 LEASE #: **05-045-15099** CASING
 FIELD/AREA: **GRAND VALLEY**

PROJECT NO. : **202512053** ANALYSIS NO. : **01**
 COMPANY NAME : **QB ENERGY OPERATING, LLC** ANALYSIS DATE: **DECEMBER 23, 2025 00:00**
 OFFICE / BRANCH: **PARACHUTE, CO** SAMPLE DATE : **NOVEMBER 20, 2025 7:30 AM**
 CUSTOMER REF: TO:
 PRODUCER : **QB ENERGY OPERATING LLC** EFFECTIVE DATE:

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

SAMPLE CYCLE: SAMPLE TYPE: **SPOT**
 SAMPLE PRES. : **238** psig PROBE : **NO**
 FLOW PRES. : psig CYLINDER NO. : **ECA-757**
 LAB PRES: psig SAMPLED BY : **ALEX GALLEGOS**
 SAMPLE TEMP. : **35** °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	0.01	-	-	-
HYDROGEN	0.17	-	-	-
OXYGEN/ARGON	0.00	-	-	-
NITROGEN	0.11	-	-	-
CO2	1.64	-	-4.8	-
METHANE	91.67	-	-37.7	-174
ETHANE	4.70	1.2551	-26.6	-
PROPANE	0.97	0.2688	-23.7	-
ISOBUTANE	0.22	0.0719	-23.5	-
N-BUTANE	0.16	0.0500	-22.8	-
ISOPENTANE	0.08	0.0260	-22.7	-
N-PENTANE	0.04	0.0140	0.0	-
HEXANES+	0.22	0.0260	-	-
TOTAL	100.00	1.7118		

BTU @ 60 DEG F

14.65
 GROSS DRY REAL = 1055.3 /scf
 GROSS SATURATED REAL = 1036.9 /scf

RELATIVE DENSITY (AIR=1 @14.696 PSIA 60F) 0.6107
 GRAVITY (LB/SCF) 0.04662
 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 #: **202512053-01-A-595**
 The Isotopic Data File #: **DIG-042400**

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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