



ISOTOPIC NATURAL GAS ANALYSIS

PRIMARY DB KEY: **05-045-11253** NAME/DESCRIP : **110165219 NP I30 EF 01D 595**
 LEASE #: **05-045-11253** **BRADEN HEAD**
 FIELD/AREA: **GRAND VALLEY**

PROJECT NO. : **202512048** ANALYSIS NO. : **02**
 COMPANY NAME : **QB ENERGY OPERATING, LLC** ANALYSIS DATE: **DECEMBER 22, 2025 00:00**
 OFFICE / BRANCH: **PARACHUTE, CO** SAMPLE DATE : **NOVEMBER 20, 2025 8:30 AM**
 CUSTOMER REF: TO:
 PRODUCER : **QB ENERGY OPERATING LLC** EFFECTIVE DATE:

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

SAMPLE CYCLE: SAMPLE TYPE: **SPOT**
 SAMPLE PRES. : 213 psig PROBE : **NO**
 FLOW PRES. : psig CYLINDER NO. : **ECA-719**
 LAB PRES: psig SAMPLED BY : **ALEX GALLEGOS**
 SAMPLE TEMP. : 37 °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	0.00	-	-	-
OXYGEN/ARGON	0.00	-	-	-
NITROGEN	0.17	-	-	-
CO2	0.75	-	-4.4	-
METHANE	93.21	-	-36.7	-161
ETHANE	3.81	1.0133	-27.9	-
PROPANE	1.09	0.3018	-28.0	-
ISOBUTANE	0.21	0.0650	-26.4	-
N-BUTANE	0.31	0.0939	-29.0	-
ISOPENTANE	0.11	0.0360	-26.3	-
N-PENTANE	0.09	0.0330	-28.0	-
HEXANES+	0.25	0.1729	-	-
TOTAL	100.00	1.7159		

BTU @ 60 DEG F

14.65
 GROSS DRY REAL = 1078.7 /scf
 GROSS SATURATED REAL = 1059.8 /scf

RELATIVE DENSITY (AIR=1 @14.696 PSIA 60F) 0.6123
 GRAVITY (LB/SCF) 0.04674
 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 #: **202512048-02-A-594**
 The Isotopic Data File #: **DIG-042394**

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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