



ISOTOPIC NATURAL GAS ANALYSIS

PRIMARY DB KEY: **05-045-19137** NAME/DESCRIP : **F25 496, SGU 8510AX-25**
 LEASE #: **05-045-19137** **PRODUCTION CASING**
 FIELD/AREA: **GRAND VALLEY**

PROJECT NO. : **202601026** ANALYSIS NO. : **01**
 COMPANY NAME : **QB ENERGY OPERATING, LLC** ANALYSIS DATE: **JANUARY 22, 2026 00:00**
 OFFICE / BRANCH: **PARACHUTE, CO** SAMPLE DATE : **JANUARY 5, 2026 10:45**
 CUSTOMER REF: TO:
 PRODUCER : **QB ENERGY OPERATING LLC** EFFECTIVE DATE:

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

SAMPLE CYCLE: SAMPLE TYPE:
 SAMPLE PRES. : 180 psig PROBE : NO
 FLOW PRES. : psig CYLINDER NO. : ECA-786
 LAB PRES: psig SAMPLED BY : JASON SMITH
 SAMPLE TEMP. : 31 °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	0.09	-	-	-
CO2	2.42	-	-8.4	-
METHANE	88.26	-	-37.3	-178
ETHANE	6.55	1.7461	-27.2	-
PROPANE	1.45	0.4008	-24.1	-
ISOBUTANE	0.37	0.1209	-24.4	-
N-BUTANE	0.30	0.0940	-23.3	-
ISOPENTANE	0.15	0.0510	-24.1	-
N-PENTANE	0.08	0.0290	0.0	-
HEXANES+	0.31	0.1389	-	-
TOTAL	100.00	2.5807		

BTU @ 60 DEG F

14.65
 GROSS DRY REAL = 1090.3 /scf
 GROSS SATURATED REAL = 1071.2 /scf

RELATIVE DENSITY (AIR=1 @14.696 PSIA 60F) 0.6459
 GRAVITY (LB/SCF) 0.04929
 COMPRESSIBILITY FACTOR : 0.99740

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 #: **202601026-01-A-613**
 The Isotopic Data File #: **DIG-042619**

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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