



ISOTOPIC NATURAL GAS ANALYSIS

PRIMARY DB KEY: **05-045-13542** NAME/DESCRIP : **300106008 C10OU SATTERFIELD 10-2**
 LEASE #: **COC-86496A** CASING
 FIELD/AREA: **GRAND VALLEY**

PROJECT NO. : **202603076** ANALYSIS NO. : **02**
 COMPANY NAME : **QB ENERGY OPERATING, LLC** ANALYSIS DATE: **APRIL 07, 2026 00:00**
 OFFICE / BRANCH: **PARACHUTE, CO** SAMPLE DATE : **MARCH 9, 2026**
 CUSTOMER REF: TO:
 PRODUCER : **QB ENERGY OPERATING LLC** EFFECTIVE DATE:

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

SAMPLE CYCLE: SAMPLE TYPE: **SPOT**
 SAMPLE PRES. : 783 psig PROBE : **NO**
 FLOW PRES. : psig CYLINDER NO. : **TBI-257**
 LAB PRES: psig SAMPLED BY : **MIKE KELLEY**
 SAMPLE TEMP. : 61 °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	0.08	-	-	-
CO2	0.98	-	-8.0	-
METHANE	90.70	-	-38.1	-176
ETHANE	5.46	1.4551	-28.3	-
PROPANE	1.52	0.4177	-25.7	-
ISOBUTANE	0.30	0.0979	-25.9	-
N-BUTANE	0.35	0.1069	-24.8	-
ISOPENTANE	0.14	0.0470	0.0	-
N-PENTANE	0.11	0.0400	0.0	-
HEXANES+	0.36	0.1899	-	-
TOTAL	100.00	2.3545		

BTU @ 60 DEG F

14.65
 GROSS DRY REAL = 1102.6 /scf
 GROSS SATURATED REAL = 1083.3 /scf

RELATIVE DENSITY (AIR=1 @14.696 PSIA 60F) 0.6304
 GRAVITY (LB/SCF) 0.04812
 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 #: **202603076-02-A-674**
 The Isotopic Data File #: **DIG-043345**

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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