



ISOTOPIC NATURAL GAS ANALYSIS

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

PROJECT NO. : **202603076** ANALYSIS NO. : **01**
 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. : 397 psig PROBE : **NO**
 FLOW PRES. : psig CYLINDER NO. : **ECA-706**
 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	0.01	-	-	-
HYDROGEN	0.00	-	-	-
OXYGEN/ARGON	0.00	-	-	-
NITROGEN	0.13	-	-	-
CO2	0.03	-	0.0	-
METHANE	94.73	-	-35.9	-169
ETHANE	3.52	0.9382	-26.7	-
PROPANE	0.85	0.2358	-25.0	-
ISOBUTANE	0.19	0.0619	-24.7	-
N-BUTANE	0.18	0.0570	-24.1	-
ISOPENTANE	0.09	0.0290	-24.5	-
N-PENTANE	0.06	0.0220	-23.7	-
HEXANES+	0.22	0.1389	-	-
TOTAL	100.00	1.4828		

BTU @ 60 DEG F

14.65
 GROSS DRY REAL = 1072.8 /scf
 GROSS SATURATED REAL = 1054.0 /scf

RELATIVE DENSITY (AIR=1 @14.696 PSIA 60F) 0.5967
 GRAVITY (LB/SCF) 0.04554
 COMPRESSIBILITY FACTOR : 0.99770

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 #: **202603076-01-A-674**
 The Isotopic Data File #: **DIG-043344**

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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