



ISOTOPIC NATURAL GAS ANALYSIS

PRIMARY DB KEY: **05-103-10589** NAME/DESCRIP : **PCU 297 T62-X11G2**
 LEASE #: **035705** **PRODUCTION CASING**
 FIELD/AREA: **PICEANCE CREEK - #68800**

PROJECT NO. : **202408105** ANALYSIS NO. : **03**
 COMPANY NAME : **QB ENERGY OPERATING, LLC** ANALYSIS DATE: **SEPTEMBER 05, 2024 00:00**
 OFFICE / BRANCH: **PARACHUTE** SAMPLE DATE : **AUGUST 21, 2024 12:30**
 CUSTOMER REF: **TO:**
 PRODUCER : **QB ENERGY OPERATING, LLC** EFFECTIVE DATE:

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

SAMPLE CYCLE: SAMPLE TYPE: **SPOT**
 SAMPLE PRES. : 900 psig PROBE : **NO**
 FLOW PRES. : psig CYLINDER NO. : **TBI-251**
 LAB PRES: psig SAMPLED BY : **RYAN POZORSKI**
 SAMPLE TEMP. : 84 °f SAMPLING COMPANY: **QB ENERGY OPERATING, LLC**
 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	0.00	-	-	-
OXYGEN/ARGON	0.00	-	-	-
NITROGEN	0.08	-	-	-
CO2	3.72	-	-4.5	-
METHANE	86.96	-	-37.4	-179
ETHANE	5.96	1.5573	-27.0	-
PROPANE	1.89	0.5108	-24.9	-
ISOBUTANE	0.44	0.1399	-25.6	-
N-BUTANE	0.39	0.1189	-24.7	-
ISOPENTANE	0.17	0.0580	-24.0	-
N-PENTANE	0.10	0.0360	-24.5	-
HEXANES+	0.30	0.9696	-	-
TOTAL	100.00	3.3905		

BTU @ 60 DEG F

14.65
 GROSS DRY REAL = 1162.6 /scf
 GROSS SATURATED REAL = 1142.3 /scf

RELATIVE DENSITY (AIR=1 @14.696 PSIA 60F) 0.7121
 GRAVITY (LB/SCF) 0.05435
 COMPRESSIBILITY FACTOR : 0.99730

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 #: **202408105-03-A-219**
 The Isotopic Data File #: **DIG-036859**

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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