



ISOTOPIC NATURAL GAS ANALYSIS

PRIMARY DB KEY: **05-045-15092** NAME/DESCRIP : **110250216 DWU E34 #CP08B-33**
 LEASE #: **05-045-15092** FEDERAL LEASE # **COC-65556**
 FIELD/AREA: **GRAND VALLEY - #31290** BRAIDEN HEAD

PROJECT NO. : **202304096** ANALYSIS NO. : **02**
 COMPANY NAME : **CAERUS OIL & GAS LLC** ANALYSIS DATE: **MAY 02, 2023 00:00**
 OFFICE / BRANCH: **PARACHUTE, CO** SAMPLE DATE : **APRIL 10, 2023 10:55**
 CUSTOMER REF: TO:
 PRODUCER : **CAERUS PICEANCE LLC - 10456** EFFECTIVE DATE:

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

SAMPLE CYCLE: SAMPLE TYPE: **SPOT**
 SAMPLE PRES. : 179 psig PROBE : **NO**
 FLOW PRES. : psig CYLINDER NO. : **ECA-820**
 LAB PRES: psig SAMPLED BY : **MIKE KELLY**
 SAMPLE TEMP. : 50 °f SAMPLING COMPANY: **CAERUS**
 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	0.06	-	-	-
CO2	2.18	-	-4.7	-
METHANE	89.03	-	-35.7	-168
ETHANE	6.10	1.6260	-25.7	-
PROPANE	1.60	0.4417	-23.7	-
ISOBUTANE	0.37	0.1239	-23.6	-
N-BUTANE	0.25	0.0790	-22.9	-
ISOPENTANE	0.09	0.0290	-24.3	-
N-PENTANE	0.05	0.0180	-24.2	-
HEXANES+	0.26	0.1169	-	-
TOTAL	100.00	2.4345		

BTU @ 60 DEG F

14.65
 GROSS DRY REAL = 1086.4 /scf
 GROSS SATURATED REAL = 1067.4 /scf

RELATIVE DENSITY (AIR=1 @14.696 PSIA 60F) 0.639
 GRAVITY (LB/SCF) 0.04878
 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 #: **202304096-02-A-768**
 The Isotopic Data File #: **DIG-031757**

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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