



ISOTOPIC NATURAL GAS ANALYSIS

PRIMARY DB KEY: **05-045-13410** NAME/DESCRIP : **N.PARACHUTE H15 WF11D-14 596**
 LEASE #: **110167193** PRODUCTION CASING
 FIELD/AREA: **WILDCAT - #99999**

PROJECT NO. : **202405044** ANALYSIS NO. : **03**
 COMPANY NAME : **CAERUS OIL & GAS LLC** ANALYSIS DATE: **MAY 22, 2024 00:00**
 OFFICE / BRANCH: **PARACHUTE, CO** SAMPLE DATE : **MAY 2, 2024 15:00**
 CUSTOMER REF: TO:
 PRODUCER : **CAERUS PICEANCE LLC** EFFECTIVE DATE:

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

SAMPLE CYCLE: SAMPLE TYPE: **SPOT**
 SAMPLE PRES. : **105** psig PROBE : **NO**
 FLOW PRES. : psig CYLINDER NO. : **ECA-819**
 LAB PRES: psig SAMPLED BY : **MIKE KELLEY**
 SAMPLE TEMP. : **61** °f SAMPLING COMPANY: **CAERUS OIL & GAS LLC**
 AMBIENT TEMP.: °f H2S BY STAIN TUBE: **-** ppm mol
 H2O BY STAIN TUBE: **-** #/mmcf CO2 BY STAIN TUBE: **-** Mol %
 FIELD COMMENTS:
 LAB COMMENTS: **Trace Olefins present.**

COMPONENTS	NORM. MOLE%	GPM @ 14.65	d13C % VPDB	dD % VSMOW
HELIUM	0.00	-	-	-
HYDROGEN	1.98	-	-	-
OXYGEN/ARGON	0.59	-	-	-
NITROGEN	23.79	-	-	-
CO2	0.03	-	0.0	-
METHANE	73.47	-	-44.5	-401
ETHANE	0.02	0.0050	0.0	-
PROPANE	0.00	0.0000	0.0	-
ISOBUTANE	0.00	0.0000	0.0	-
N-BUTANE	0.00	0.0000	0.0	-
ISOPENTANE	0.00	0.0000	0.0	-
N-PENTANE	0.00	0.0000	0.0	-
HEXANES+	0.11	0.0389	-	-
TOTAL	100.00	0.0439		

BTU @ 60 DEG F

14.65
 GROSS DRY REAL = **752.3** /scf
 GROSS SATURATED REAL = **739.1** /scf

RELATIVE DENSITY (AIR=1 @14.696 PSIA 60F) **0.6488**
 GRAVITY (LB/SCF) **0.04951**
 COMPRESSIBILITY FACTOR : **0.99860**

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 #: **202405044-03-A-139**
 The Isotopic Data File #: **DIG-035444**

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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