



ISOTOPIC NATURAL GAS ANALYSIS

PRIMARY DB KEY: **05-045-15109** NAME/DESCRIP : **MF C28 MF16C-21 696**
 LEASE #: **110165627** **BRAIDEN HEAD**
 FIELD/AREA: **GRAND VALLEY - #31290**

PROJECT NO. : **202407082** ANALYSIS NO. : **01**
 COMPANY NAME : **CAERUS OIL & GAS LLC** ANALYSIS DATE: **JULY 31, 2024 00:00**
 OFFICE / BRANCH: **PARACHUTE** SAMPLE DATE : **JULY 16, 2024 7:30**
 CUSTOMER REF: TO:
 PRODUCER : **CAERUS PICEANCE LLC** EFFECTIVE DATE:

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

SAMPLE CYCLE: SAMPLE TYPE: **SPOT**
 SAMPLE PRES. : 15 psig PROBE : **NO**
 FLOW PRES. : psig CYLINDER NO. : **ECA-739**
 LAB PRES: psig SAMPLED BY : **ALEX GALLEGOS**
 SAMPLE TEMP. : 73 °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:

COMPONENTS	NORM. MOLE%	GPM @ 14.65	d13C ‰ VPDB	dD ‰ VSMOW
HELIUM	0.02	-	-	-
HYDROGEN	0.00	-	-	-
OXYGEN/ARGON	0.00	-	-	-
NITROGEN	0.46	-	-	-
CO2	0.02	-	0.0	-
METHANE	94.82	-	-32.6	-167
ETHANE	2.54	0.6824	-27.4	-
PROPANE	0.73	0.2028	-27.5	-
ISOBUTANE	0.11	0.0360	-25.9	-
N-BUTANE	0.15	0.0470	-27.0	-
ISOPENTANE	0.06	0.0180	-26.2	-
N-PENTANE	0.01	0.0040	0.0	-
HEXANES+	1.10	0.0779	-	-
TOTAL	100.00	1.0681		

BTU @ 60 DEG F

14.65
 GROSS DRY REAL = 1049.6 /scf
 GROSS SATURATED REAL = 1031.3 /scf

RELATIVE DENSITY (AIR=1 @14.696 PSIA 60F) 0.5851
 GRAVITY (LB/SCF) 0.04466
 COMPRESSIBILITY FACTOR : 0.99780

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 #: **202407082-01-A-191**
 The Isotopic Data File #: **DIG-036322**

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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