



ISOTOPIC NATURAL GAS ANALYSIS

PRIMARY DB KEY: **05-045-11594** NAME/DESCRIP : **COLOHAN #3-4 (OH4)**
 LEASE #: **300106029** **BRAIDEN HEAD**
 FIELD/AREA: **GRAND VALLEY - #31290**

PROJECT NO. : **202309082** ANALYSIS NO. : **01**
 COMPANY NAME : **CAERUS OIL & GAS LLC** ANALYSIS DATE: **SEPTEMBER 29, 2023 00:00**
 OFFICE / BRANCH: **PARACHUTE, CO** SAMPLE DATE : **SEPTEMBER 7, 2023 15:50**
 CUSTOMER REF: TO:
 PRODUCER : **CAERUS PICEANCE LLC** EFFECTIVE DATE:

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

SAMPLE CYCLE: SAMPLE TYPE: **SPOT**
 SAMPLE PRES. : **408** psig PROBE : **NO**
 FLOW PRES. : psig CYLINDER NO. : **ECA-807**
 LAB PRES: psig SAMPLED BY : **MIKE KELLEY**
 SAMPLE TEMP. : **87** °f SAMPLING COMPANY: **CAERUS OIL & GAS**
 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	0.02	-	-	-
OXYGEN/ARGON	0.00	-	-	-
NITROGEN	0.11	-	-	-
CO2	0.02	-	0.0	-
METHANE	94.28	-	-36.2	-175
ETHANE	3.93	1.0501	-26.0	-
PROPANE	0.98	0.2688	-24.8	-
ISOBUTANE	0.21	0.0689	-24.9	-
N-BUTANE	0.19	0.0600	-24.4	-
ISOPENTANE	0.08	0.0260	0.0	-
N-PENTANE	0.05	0.0180	0.0	-
HEXANES+	0.12	0.0480	-	-
TOTAL	100.00	1.5398		

BTU @ 60 DEG F

14.65

GROSS DRY REAL = **1069.3 /scf**
 GROSS SATURATED REAL = **1050.6 /scf**

RELATIVE DENSITY (AIR=1 @14.696 PSIA 60F) **0.5939**
 GRAVITY (LB/SCF) **0.04533**
 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 #: **202309082-01-A-879**
 The Isotopic Data File #: **DIG-032980**

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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