



ISOTOPIC NATURAL GAS ANALYSIS

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

PROJECT NO. : **202309082** ANALYSIS NO. : **02**
 COMPANY NAME : **CAERUS OIL & GAS LLC** ANALYSIS DATE: **SEPTEMBER 29, 2023 00:00**
 OFFICE / BRANCH: **PARACHUTE, CO** SAMPLE DATE : **SEPTEMBER 7, 2023 15:30**
 CUSTOMER REF: TO:
 PRODUCER : **CAERUS PICEANCE LLC** EFFECTIVE DATE:

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

SAMPLE CYCLE: SAMPLE TYPE: **SPOT**
 SAMPLE PRES. : **845** psig PROBE : **NO**
 FLOW PRES. : psig CYLINDER NO. : **ECA-729**
 LAB PRES: psig SAMPLED BY : **MIKE KELLEY**
 SAMPLE TEMP. : **89** °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	0.00	-	-	-
HYDROGEN	0.02	-	-	-
OXYGEN/ARGON	0.00	-	-	-
NITROGEN	0.08	-	-	-
CO2	1.36	-	-7.4	-
METHANE	92.75	-	-37.4	-171
ETHANE	3.82	1.0183	-27.0	-
PROPANE	0.97	0.2688	-24.9	-
ISOBUTANE	0.23	0.0719	0.0	-
N-BUTANE	0.20	0.0630	0.0	-
ISOPENTANE	0.12	0.0400	0.0	-
N-PENTANE	0.07	0.0250	0.0	-
HEXANES+	0.40	0.1259	-	-
TOTAL	100.00	1.6129		

BTU @ 60 DEG F

14.65
 GROSS DRY REAL = **1065.2 /scf**
 GROSS SATURATED REAL = **1046.6 /scf**

RELATIVE DENSITY (AIR=1 @14.696 PSIA 60F) **0.6125**
 GRAVITY (LB/SCF) **0.04675**
 COMPRESSIBILITY FACTOR : **0.99760**

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 #: **202309082-02-A-879**
 The Isotopic Data File #: **DIG-032981**
 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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