



ISOTOPIC NATURAL GAS ANALYSIS

PRIMARY DB KEY: **05-045-14699** NAME/DESCRIP : **M33 DWU CP11D-33 496**
 LEASE #: **110250222, COC-74105A** **CASING**
 FIELD/AREA: **GRAND VALLEY - #31290**

PROJECT NO. : **202405124** ANALYSIS NO. : **01**
 COMPANY NAME : **CAERUS OIL & GAS LLC** ANALYSIS DATE: **JUNE 07, 2024 00:00**
 OFFICE / BRANCH: **PARACHUTE, CO** SAMPLE DATE : **MAY 22, 2024 13:45**
 CUSTOMER REF: **TO:**
 PRODUCER : **CAERUS PICEANCE LLC** EFFECTIVE DATE:

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

SAMPLE CYCLE: SAMPLE TYPE: **SPOT**
 SAMPLE PRES. : **156** psig PROBE : **NO**
 FLOW PRES. : psig CYLINDER NO. : **ECA-810**
 LAB PRES: psig SAMPLED BY : **MIKE KELLEY**
 SAMPLE TEMP. : **53** °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: **Possible trace of Olefins in sample.**

COMPONENTS	NORM. MOLE%	GPM @ 14.65	d13C ‰ VPDB	dD ‰ VSMOW
HELIUM	0.00	-	-	-
HYDROGEN	0.02	-	-	-
OXYGEN/ARGON	0.03	-	-	-
NITROGEN	1.31	-	-	-
CO2	0.02	-	0.0	-
METHANE	96.51	-	-47.1	-227
ETHANE	1.70	0.4525	-23.1	-
PROPANE	0.20	0.0549	-20.1	-
ISOBUTANE	0.07	0.0230	-18.1	-
N-BUTANE	0.02	0.0060	0.0	-
ISOPENTANE	0.02	0.0040	0.0	-
N-PENTANE	0.01	0.0040	0.0	-
HEXANES+	0.10	0.0170	-	-
TOTAL	100.00	0.5614		

BTU @ 60 DEG F

14.65

GROSS DRY REAL = **1015.5 /scf**
 GROSS SATURATED REAL = **997.7 /scf**

RELATIVE DENSITY (AIR=1 @14.696 PSIA 60F) **0.5723**
 GRAVITY (LB/SCF) **0.04369**
 COMPRESSIBILITY FACTOR : **0.99790**

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 #: **202405124-01-A-154**
 The Isotopic Data File #: **DIG-035718**

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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