



**ISOTOPIC NATURAL GAS ANALYSIS**

PRIMARY DB KEY: **05-045-09022** NAME/DESCRIP : **GG3 CHEVRON 33-7D**  
 LEASE #: **110170021** CASING  
 FIELD/AREA: **GRAND VALLEY - #31290**

PROJECT NO. : **202405125** ANALYSIS NO. : **01**  
 COMPANY NAME : **CAERUS OIL & GAS LLC** ANALYSIS DATE: **JUNE 07, 2024 00:00**  
 OFFICE / BRANCH: **PARACHUTE, CO** SAMPLE DATE : **MAY 23, 2024 7:30**  
 CUSTOMER REF: TO:  
 PRODUCER : **CAERUS PICEANCE LLC** EFFECTIVE DATE:

**\*\*\*FIELD DATA\*\*\***

SAMPLE CYCLE: SAMPLE TYPE: **SPOT**  
 SAMPLE PRES. : **339** psig PROBE : **NO**  
 FLOW PRES. : psig CYLINDER NO. : **ECA-823**  
 LAB PRES: psig SAMPLED BY : **ALEX GALLEGOS**  
 SAMPLE TEMP. : **43** °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 moisture observed.**

COMPONENTS	NORM. MOLE%	GPM @ 14.65	d13C ‰ VPDB	dD ‰ VSMOW
HELIUM	0.00	-	-	-
HYDROGEN	0.06	-	-	-
OXYGEN/ARGON	0.00	-	-	-
NITROGEN	0.08	-	-	-
CO2	2.15	-	<b>-5.5</b>	-
METHANE	87.28	-	<b>-38.1</b>	<b>-175</b>
ETHANE	7.19	1.9092	<b>-27.7</b>	-
PROPANE	1.98	0.5438	<b>-24.3</b>	-
ISOBUTANE	0.47	0.1529	<b>-25.6</b>	-
N-BUTANE	0.34	0.1070	<b>-23.7</b>	-
ISOPENTANE	0.17	0.0620	<b>-24.7</b>	-
N-PENTANE	0.09	0.0330	<b>0.0</b>	-
HEXANES+	0.20	0.2679	-	-
<b>TOTAL</b>	<b>100.00</b>	<b>3.0758</b>		

BTU @ 60 DEG F

**14.65**

GROSS DRY REAL = 1122.4 /scf  
 GROSS SATURATED REAL = 1102.8 /scf

RELATIVE DENSITY (AIR=1 @14.696 PSIA 60F) 0.6616  
 GRAVITY (LB/SCF) 0.05050  
 COMPRESSIBILITY FACTOR : 0.99730

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 #: **202405125-01-A-154**  
 The Isotopic Data File #: **DIG-035719**

Note: Stable isotope results based on multi-point laboratory calibration

Precision δ<sup>13</sup>C < 0.5 ‰ Precision δD < 5.0 ‰

Values in red represent low peak heights. Interpret with caution.

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