



ISOTOPIC NATURAL GAS ANALYSIS

PRIMARY DB KEY: **05-045-21920** NAME/DESCRIP : **E34 PAD STORY GULCH SG 8508E-33 E34 496**
 LEASE #: **74105A** BRAIDEN HEAD
 FIELD/AREA: **COC 65556**

PROJECT NO. : **202108112** ANALYSIS NO. : **01**
 COMPANY NAME : **CAERUS OIL & GAS LLC** ANALYSIS DATE: **AUGUST 20, 2021 09:54**
 OFFICE / BRANCH: **PARACHUTE, CO** SAMPLE DATE : **AUGUST 18, 2021**
 CUSTOMER REF: TO:
 PRODUCER : **CAERUS OIL & GAS LLC** EFFECTIVE DATE:

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

SAMPLE CYCLE: SAMPLE TYPE: **SPOT**
 SAMPLE PRES. : **53** psig PROBE : **NO**
 FLOW PRES. : psig CYLINDER NO. : **ECA-804**
 LAB PRES: psig SAMPLED BY : **JESSE "DUSTY" LATHAM**
 SAMPLE TEMP. : **60** °f SAMPLING COMPANY: **CAERUS OIL & GAS LLC**
 AMBIENT TEMP.: °f H2S BY STAIN TUBE: - ppm
 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	0.17	-	-	-
OXYGEN/ARGON	0.02	-	-	-
NITROGEN	2.06	-	-	-
CO2	0.02	-	0.0	-
METHANE	95.76	-	-41.9	-202
ETHANE	1.22	0.3227	-29.0	-
PROPANE	0.41	0.1129	-37.6	-
ISOBUTANE	0.08	0.0260	0.0	-
N-BUTANE	0.11	0.0350	0.0	-
ISOPENTANE	0.05	0.0150	0.0	-
N-PENTANE	0.03	0.0110	0.0	-
HEXANES+	0.07	0.0170	-	-
TOTAL	100.00	0.5396		

BTU @ 60 DEG F

14.65
 GROSS DRY REAL = 1010.1 /scf
 GROSS SATURATED REAL = 992.4 /scf

RELATIVE DENSITY (AIR=1 @14.696 PSIA 60F) 0.5767
 GRAVITY (LB/SCF) 0.04402
 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 #: **202108112-01-A-389**
 The Isotopic Data File #: **DIG-026085**

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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