



ISOTOPIC NATURAL GAS ANALYSIS

PRIMARY DB KEY: **05-045-06943** NAME/DESCRIP : **I10 PARKER RANCH 10-9**
 LEASE #: **05-045-06943** **BRAIDEN HEAD**
 FIELD/AREA:

PROJECT NO. : **202107021** ANALYSIS NO. : **06**
 COMPANY NAME : **CAERUS OIL & GAS LLC** ANALYSIS DATE: **JULY 08, 2021 09:32**
 OFFICE / BRANCH: **PARACHUTE, CO** SAMPLE DATE : **JUNE 30, 2021**
 CUSTOMER REF: **TO:**
 PRODUCER : **CAERUS OIL & GAS LLC** EFFECTIVE DATE:

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

SAMPLE CYCLE: SAMPLE TYPE: **SPOT**
 SAMPLE PRES. : 108 psig PROBE : **NO**
 FLOW PRES. : psig CYLINDER NO. : **ECA-724**
 LAB PRES: psig SAMPLED BY : **MIKE KELLEY**
 SAMPLE TEMP. : 73 °f SAMPLING COMPANY: **COG**
 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	0.05	-	-	-
HYDROGEN	0.00	-	-	-
OXYGEN/ARGON	0.01	-	-	-
NITROGEN	2.96	-	-	-
CO2	0.00	-	0.0	-
METHANE	88.90	-	-38.4	-176
ETHANE	5.30	1.4130	-27.0	-
PROPANE	1.59	0.4367	-24.9	-
ISOBUTANE	0.33	0.1079	-25.1	-
N-BUTANE	0.35	0.1099	-24.7	-
ISOPENTANE	0.14	0.0510	-24.4	-
N-PENTANE	0.11	0.0400	-25.3	-
HEXANES+	0.26	0.1169	-	-
TOTAL	100.00	2.2754		

BTU @ 60 DEG F

14.65
 GROSS DRY REAL = 1076.6 /scf
 GROSS SATURATED REAL = 1057.8 /scf

RELATIVE DENSITY (AIR=1 @14.696 PSIA 60F) 0.629
 GRAVITY (LB/SCF) 0.04801
 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 #: **202107021-06-H-101**
 The Isotopic Data File #: **DIG-025713**

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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