



NATURAL GAS ANALYSIS

PRIMARY DB KEY:
LEASE #:
FIELD/ AREA:

NAME/DESCRIP :

NCT BATTERY

PROJECT NO. : 202008130
COMPANY NAME : RENEGADE OIL & GAS COMPANY
OFFICE / BRANCH: AURORA, CO
CUSTOMER REF:
PRODUCER :

ANALYSIS NO. : 02
ANALYSIS DATE: SEPTEMBER 01, 2020 08:30
SAMPLE DATE : AUGUST 21, 2020
TO:
EFFECTIVE DATE:

FIELD DATA

SAMPLE CYCLE:
SAMPLE PRES. : 30 psig
FLOW PRES. : psig
LAB PRES: psig
SAMPLE TEMP. : °f
AMBIENT TEMP.: °f
H2O BY STAIN TUBE: #/mmcf
FIELD COMMENTS:
LAB COMMENTS:

SAMPLE TYPE:
PROBE :
CYLINDER NO. : 0201
SAMPLED BY : MATTHEW INGVE
SAMPLING COMPANY: RENEGADE OIL & GAS
H2S BY STAIN TUBE: **BDL** ppm
CO2 BY STAIN TUBE: Mol %

COMPONENTS	NORM MOLE%	GPM @ 14.65	GPM @ 14.73
HELIUM	0.02	-	-
HYDROGEN	0.01	-	-
OXYGEN/ARGON	0.01	-	-
NITROGEN	1.39	-	-
CO2	4.13	-	-
METHANE	64.87	-	-
ETHANE	15.21	4.0626	4.0848
PROPANE	8.55	2.3522	2.3651
ISOBUTANE	0.95	0.3104	0.3121
N-BUTANE	2.61	0.8221	0.8266
ISOPENTANE	0.65	0.2373	0.2386
N-PENTANE	0.63	0.2283	0.2296
HEXANES+	0.97	0.4206	0.4229
TOTAL	100.00	8.4335	8.4797

BTU @ 60 DEG F

	14.65	14.73
GROSS DRY REAL =	1358.5 /scf	1365.9 /scf
GROSS SATURATED REAL =	1334.8 /scf	1342.2 /scf
RELATIVE DENSITY (AIR=1 @14.696 PSIA 60F)	0.8583	
DENSITY (lbm/scf)	0.06550	
COMPRESSIBILITY FACTOR :	0.9955	

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%

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