



NATURAL GAS ANALYSIS

PRIMARY DB KEY:
LEASE #:
FIELD/ AREA:

NAME/DESCRIP :

STATE OF COLORADO #3-33
INITIAL GAS SAMPLE

PROJECT NO. : 202107163
COMPANY NAME : RENEGADE OIL & GAS COMPANY
OFFICE / BRANCH: AURORA, CO
CUSTOMER REF:
PRODUCER : RENEGADE OIL & GAS COMPANY

ANALYSIS NO. : 03
ANALYSIS DATE: AUGUST 02, 2021 09:10
SAMPLE DATE : JULY 15, 2021
TO:
EFFECTIVE DATE:

FIELD DATA

SAMPLE CYCLE:
SAMPLE PRES. : 170 psig
FLOW PRES. : psig
LAB PRES: psig
SAMPLE TEMP. : °f
AMBIENT TEMP.: °f
H2O BY STAIN TUBE: - #/mmcf
FIELD COMMENTS:
LAB COMMENTS:

SAMPLE TYPE: SPOT
PROBE : NO
CYLINDER NO. : 1942
SAMPLED BY : ED INGVE
SAMPLING COMPANY: RENEGADE OIL
H2S BY STAIN TUBE: - ppm
CO2 BY STAIN TUBE: - Mol %

COMPONENTS	NORM. MOLE%	GPM @ 14.65	GPM @ 14.73
HELIUM	0.02	-	-
HYDROGEN	0.00	-	-
OXYGEN/ARGON	0.01	-	-
NITROGEN	1.78	-	-
CO2	2.93	-	-
METHANE	67.33	-	-
ETHANE	12.70	3.3927	3.4112
PROPANE	8.42	2.3172	2.3298
ISOBUTANE	0.93	0.3044	0.3061
N-BUTANE	3.11	0.9793	0.9847
ISOPENTANE	0.83	0.3034	0.3051
N-PENTANE	1.02	0.3695	0.3715
HEXANES+	0.92	0.3985	0.4007
TOTAL	100.00	8.0650	8.1091

BTU @ 60 DEG F

	14.65	14.73
GROSS DRY REAL =	1371.6 /scf	1379.1 /scf
GROSS SATURATED REAL =	1347.6 /scf	1355.1 /scf

RELATIVE DENSITY (AIR=1 @ 14.696 PSIA 60F) 0.8516
DENSITY (lbm/scf) 0.06499
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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