



NATURAL GAS ANALYSIS

PRIMARY DB KEY: NAME/DESCRIP : STATE OF COLORADO #3-33  
 LEASE #: INITIAL GAS SAMPLE  
 FIELD/ AREA:  
 PROJECT NO. : 202107163 ANALYSIS NO. : 03  
 COMPANY NAME : RENEGADE OIL & GAS COMPANY ANALYSIS DATE: AUGUST 02, 2021 09:10  
 OFFICE / BRANCH: AURORA, CO SAMPLE DATE : JULY 15, 2021  
 CUSTOMER REF: TO:  
 PRODUCER : RENEGADE OIL & GAS COMPANY EFFECTIVE DATE:

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

SAMPLE CYCLE: SAMPLE TYPE: SPOT  
 SAMPLE PRES. : 170 psig PROBE : NO  
 FLOW PRES. : psig CYLINDER NO. : 1942  
 LAB PRES: psig SAMPLED BY : ED INGVE  
 SAMPLE TEMP. : °f SAMPLING COMPANY: RENEGADE OIL  
 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	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

	<b>14.65</b>	<b>14.73</b>
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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