



PRIMARY DB KEY: NAME/DESCRIP : **MORRIS 13-8**
 LEASE #:
 FIELD/ AREA:
 PROJECT NO. : **201908133** ANALYSIS NO. : **07**
 COMPANY NAME : **RENEGADE OIL & GAS COMPANY** ANALYSIS DATE: **AUGUST 28, 2019 08:41**
 OFFICE / BRANCH: **AURORA, CO** SAMPLE DATE : **AUGUST 21, 2019**
 CUSTOMER REF: TO:
 PRODUCER : EFFECTIVE DATE:

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

SAMPLE CYCLE:	SAMPLE TYPE:
SAMPLE PRES. : 30 psig	PROBE : NO
FLOW PRES. : psig	CYLINDER NO. : 1914
LAB PRES: psig	SAMPLED BY : CODY BAYLIS
SAMPLE TEMP. : 75 °f	SAMPLING COMPANY: RENEGADE
AMBIENT TEMP.: °f	H2S BY STAIN TUBE: <u>1</u> 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	0.01	-	-
HYDROGEN	0.00	-	-
OXYGEN/ARGON	0.01	-	-
NITROGEN	1.14	-	-
CO2	3.94	-	-
METHANE	46.03	-	-
ETHANE	16.41	4.3965	4.4205
PROPANE	18.16	5.0123	5.0396
ISOBUTANE	1.68	0.5504	0.5535
N-BUTANE	6.39	2.0180	2.0290
ISOPENTANE	1.50	0.5494	0.5524
N-PENTANE	1.79	0.6499	0.6534
HEXANES+	2.94	1.2787	1.2857
TOTAL	100.00	14.4552	14.5341

BTU @ 60 DEG F

	14.65		14.73
GROSS DRY REAL =	1765.6	/scf	1775.3 /scf
GROSS SATURATED REAL =	1734.7	/scf	1744.4 /scf

RELATIVE DENSITY (AIR=1 @14.696 PSIA 60F) 1.1113
 GRAVITY (LB/SCF) 0.08481
 COMPRESSIBILITY FACTOR : 0.99244

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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