



PRIMARY DB KEY: NAME/DESCRIP : STATE P TANK  
 LEASE #:   
 FIELD/ AREA:   
 PROJECT NO. : 202008044 ANALYSIS NO. : 13  
 COMPANY NAME : RENEGADE OIL & GAS COMPANY ANALYSIS DATE: AUGUST 12, 2020 12:44  
 OFFICE / BRANCH: AURORA, CO SAMPLE DATE : AUGUST 6, 2020  
 CUSTOMER REF: TO:  
 PRODUCER : EFFECTIVE DATE:

**\*\*\*FIELD DATA\*\*\***  
 SAMPLE CYCLE: SAMPLE TYPE:  
 SAMPLE PRES. : 15 psig PROBE :  
 FLOW PRES. : psig CYLINDER NO. : 1630  
 LAB PRES: psig SAMPLED BY : MATTHEW INGVE  
 SAMPLE TEMP. : 94 °f SAMPLING COMPANY: RENEGADE OIL & GAS  
 AMBIENT TEMP.: °f H2S BY STAIN TUBE: 1 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	0.01	-	-
OXYGEN/ARGON	0.00	-	-
NITROGEN	0.88	-	-
CO2	2.42	-	-
METHANE	55.44	-	-
ETHANE	15.40	4.1215	4.1440
PROPANE	12.98	3.5787	3.5983
ISOBUTANE	1.44	0.4715	0.4741
N-BUTANE	5.43	1.7126	1.7220
ISOPENTANE	1.34	0.4906	0.4933
N-PENTANE	1.74	0.6311	0.6345
HEXANES+	2.90	1.2591	1.2660
<b>TOTAL</b>	<b>100.00</b>	<b>12.2651</b>	<b>12.3322</b>
BTU @ 60 DEG F		<b>14.65</b>	<b>14.73</b>
GROSS DRY REAL =		1660.4 /scf	1669.5 /scf
GROSS SATURATED REAL =		1631.4 /scf	1640.5 /scf
RELATIVE DENSITY (AIR=1 @14.696 PSIA 60F)		1.0178	
DENSITY (lbm/scf)		0.07768	
COMPRESSIBILITY FACTOR :		0.9936	

**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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