



PRIMARY DB KEY: NAME/DESCRIP : **CRESTED BUTTE 2-14**
 LEASE #: **GAS AT SEPARATOR**

PROJECT NO. : **201712120** ANALYSIS NO. : **20**
 COMPANY NAME : **NIGHTHAWK PRODUCTION COMPANY** ANALYSIS DATE: **DECEMBER 27, 2017 07:54**
 OFFICE / BRANCH: **HIGHLANDS RANCH, CO** SAMPLE DATE : **DECEMBER 20, 2017 18:00**
 CUSTOMER REF: TO:
 PRODUCER : EFFECTIVE DATE:

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

SAMPLE CYCLE: SAMPLE TYPE: SPOT
 SAMPLE PRES. : 20 psig PROBE : NO
 FLOW PRES. : psig CYLINDER NO. : 1033
 LAB PRES: psig SAMPLED BY : JOHN MOSER
 SAMPLE TEMP. : 77.9 °f SAMPLING COMPANY: EMPACT
 AMBIENT TEMP.: °f H2S BY STAIN TUBE: **1.0** ppm
 H2O BY STAIN TUBE #/mmcf CO2 BY STAIN TUBE: Mol %
 FIELD COMMENTS:
 LAB COMMENTS:

COMPONENTS	NORM. MOLE%	GPM @ 14.73	GPM @ 14.65
HELIUM	0.11	-	-
HYDROGEN	0.01	-	-
OXYGEN/ARGON	0.04	-	-
NITROGEN	4.69	-	-
CO2	3.51	-	-
METHANE	21.44	-	-
ETHANE	17.84	4.8291	4.8029
PROPANE	25.14	7.0098	6.9717
ISOBUTANE	4.46	1.4775	1.4694
N-BUTANE	11.29	3.6023	3.5827
ISOPENTANE	3.43	1.2694	1.2625
N-PENTANE	3.56	1.3060	1.2989
HEXANES+	4.48	1.9676	1.9569
TOTAL	100.00	21.4617	21.3450

BTU @ 60 DEG F

	14.73	14.65
GROSS DRY REAL =	2219.8 /scf	2207.8 /scf
GROSS SATURATED REAL =	2181.2 /scf	2169.2 /scf

RELATIVE DENSITY (AIR=1 @14.696 PSIA 60F) 1.4204
 GRAVITY (LB/SCF) 0.10840
 COMPRESSIBILITY FACTOR : 0.98776

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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