



PRIMARY DB KEY: NAME/DESCRIP: **SILVERTON 16-10**  
 LEASE #: **GAS AT SEPARATOR**

PROJECT NO. : **201712120** ANALYSIS NO. : **06**  
 COMPANY NAME : **NIGHTHAWK PRODUCTION COMPANY** ANALYSIS DATE: **DECEMBER 27, 2017 09:07**  
 OFFICE / BRANCH: **HIGHLANDS RANCH, CO** SAMPLE DATE : **DECEMBER 20, 2017 10:20**  
 CUSTOMER REF: TO:  
 PRODUCER : EFFECTIVE DATE:

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

SAMPLE CYCLE: SAMPLE TYPE: **SPOT**  
 SAMPLE PRES. : **30** psig PROBE : **NO**  
 FLOW PRES. : psig CYLINDER NO. : **0782**  
 LAB PRES: psig SAMPLED BY : **JOHN MOSER**  
 SAMPLE TEMP. : **74.6** °f SAMPLING COMPANY: **EMPACT**  
 AMBIENT TEMP.: °f H2S BY STAIN TUBE: **3.0** 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	0.98	-	-
HYDROGEN	0.06	-	-
OXYGEN/ARGON	0.42	-	-
NITROGEN	50.93	-	-
CO2	3.86	-	-
METHANE	25.05	-	-
ETHANE	3.88	1.0400	1.0343
PROPANE	5.41	1.4941	1.4860
ISOBUTANE	1.18	0.3869	0.3847
N-BUTANE	3.92	1.2389	1.2322
ISOPENTANE	1.00	0.3668	0.3648
N-PENTANE	1.42	0.5155	0.5127
HEXANES+	1.89	0.8219	0.8175
<b>TOTAL</b>	<b>100.00</b>	<b>5.8641</b>	<b>5.8322</b>

BTU @ 60 DEG F

	<b>14.73</b>	<b>14.65</b>
GROSS DRY REAL =	822.1 /scf	817.7 /scf
GROSS SATURATED REAL =	807.8 /scf	803.4 /scf
RELATIVE DENSITY (AIR=1 @14.696 PSIA 60F)	1.0423	
GRAVITY (LB/SCF)	0.07954	
COMPRESSIBILITY FACTOR :	0.99752	

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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