

GAS TESTING AND MEASUREMENT
PETROLEUM LABORATORY
PHYSICAL TEST
GAS SURVEY

GAS PRODUCTION SURVEYS
BACK PRESSURE TESTS
ELECTRONIC VOLUMES
CHART INTEGRATION

THURMOND-McGLOTHLIN, LLC.
THE NATURAL GAS MEASUREMENT COMPANY
309 North American Road Unit 13
Cheyenne, WY 82007
307-632-2298 OFFICE

FRACTION ANALYSIS:

COMPONENTS		MOL %	GPM
			14.73
CARBON DIOXIDE	CO2	1.5393	
NITROGEN	N2	0.5770	
METHANE	C1	65.7335	
ETHANE	C2	14.9548	4.0197
PROPANE	C3	9.5156	2.6348
iso-BUTANE	IC4	1.2305	0.4047
n-BUTANE	NC4	3.5433	1.1227
iso-PENTANE	IC5	0.7860	0.2889
n-PENTANE	NC5	0.8751	0.3188
HEXANE +	NC6+	1.2449	0.5460
OXYGEN	O2		
HYDROGEN SULFIDE: H2S			
TOTAL		100.0000	

DATE RUN: 10/31/2016

COMPANY: WARD PETROLEUM
LEASE: ANDERSON 18-3-11HC
STATION: 113W
PILOT:
PRESSURE: 81.00 PSIG
TEMPERATURE: 84.00 F
CYLINDER: 4
ANALYSIS BY: KELLY ALLDAFFER
SECURED BY: WESTON ROGERS
DATE SAMPLED: 10/27/16
RUN NUMBER: WY6890N 2386
SAMPLE TYPE: S

GASOLINE CONTENT @ 60F

ETHANE & HEAVIER	9.3356
PROPANE & HEAVIER	5.3159
BUTANE & HEAVIER	2.6811
PENTANE & HEAVIER	1.1537

REMARKS:

H2S: PPM
H2O: lb/mmcft
RESULTS TO: WARD PETROLEUM

GROSS HEATING VALUE

BTU @ 60F REAL 14.73

DRY 1465.0661
WET 1440.3491

SPECIFIC GRAVITY Z = 0.9947

REAL 0.8747

*Based on GPA 2145 & 2172

*Natural Gas is one of our Most Valuable and Profitable Properties. Careful
Conservation and Expert Handling will Pay Abundant Dividends.*