

## WPX Energy Gas Analysis

### GPA 2145-09 Analysis Calculation

#### Sample Information

	Sample Information
Sample Name	62182746 BCU 33-18
Operator:	Jarred Wade
Meter Station Number:	62182746
Field Remarks:	BCU 33-18
Sample Pressure:	250
Sample Temperature:	50
Atmospheric Pressure:	11.73
Operator	System
Sample Notes	ANNUAL ANALYSIS
Injection Date	2013-12-03 10:26:02
Source Data File	62182746 DEC 13.dat

#### Component Results

Component Name	Ret. Time	Peak Area	Norm%	Gross HV (Dry) (BTU / Ideal cu.ft.)	Relative Gas Density (Dry)	GPM (Dry) (Gal. / 1000 cu.ft.)	
Nitrogen	0.143	112575.0	0.2303	0.0	0.00223	0.000	
Methane	0.148	28621395.0	75.3269	762.6	0.41724	0.000	
CO2	0.213	4216434.0	7.0567	0.0	0.10723	0.000	
Ethane	0.256	7072709.0	11.1136	197.1	0.11538	2.982	
Propane	0.846	3235707.0	4.1706	105.2	0.06350	1.153	
iso-Butane	0.251	2319969.0	0.8046	26.2	0.01615	0.264	
n-Butane	0.267	2199683.0	0.7385	24.1	0.01482	0.234	
iso-Pentane	0.316	746570.0	0.2235	9.0	0.00557	0.082	
n-Pentane	0.337	570878.0	0.1594	6.4	0.00397	0.058	
Hexanes	0.000	381818.0	0.0972	4.6	0.00289	0.040	
Heptanes	0.000	192664.0	0.0457	2.5	0.00158	0.021	
Octanes	0.000	90834.0	0.0204	1.3	0.00080	0.010	
Nonane Plus	0.000	57182.0	0.0126	0.9	0.00056	0.007	
Water	0.000	0.0	0.0000	0.0	0.00000	0.000	
Total:			100.0000	1139.9	0.75191	4.851	

#### Results Summary

Result	Dry	Sat.
Total Raw Mole% (Dry)	102.9100	
Pressure Base (psia)	14.730	
Temperature Base	60.0	
Water Mole%	-	1.7404
Gross Heating Value (BTU / Ideal cu.ft.)	1139.9	1120.1
Gross Heating Value (BTU / Real cu.ft.)	1143.9	1124.4
Relative Density (G), Real	0.7542	0.7522
Compressibility (Z) Factor	0.9966	0.9961
Wobbe Index	1317.2	1296.4