



Williams Midstream
GQ2 - Certificate of Analysis
Period: December 2015

Gas Quality Name:	36593		
Gas Quality Description:	SIMMONS 4		
Lab Code:			
Effective Date/Time:	August-19-2015 8:00 AM	Analyzed Date/Time:	August-20-2015 6:55 AM
Sample Date/Time:	August-20-2015 7:02 AM	Sample Type:	Periodic Gas Sample - Spot
Sampled By:		Sample Number:	0517

Component	Units	GQ Data	GPM 2145 2009	
Hydrogen (H2)				
Helium (He)				
Oxygen (O2)				
Carbon Monoxide (CO)				
Argon (Ar)				
Hydrogen Sulfide (H2S)		0.000		
Nitrogen (N2)		0.170		
Carbon Dioxide (CO2)		0.188		
Methane (C1)		86.902	14.773	
Ethane (C2)		6.713	1.800	
Propane (C3)		3.522	0.973	
I-butane (IC4)		0.627	0.206	
N-butane (NC4)		0.868	0.274	
I-pentane (IC5)		0.318	0.117	
N-pentane (NC5)		0.223	0.081	
Hexanes (C6)		0.281	0.116	
Heptanes (C7)		0.141	0.065	
Octanes (C8)		0.047	0.024	
Nonanes (C9)		0.000	0.000	
Decanes (C10)		0.000	0.000	
C6+		0.469		
C5 Plus		0.010		
CO2 + N2		0.004		
Total Composition		100.000		

Calculation Parameters

Sample Pressure:		195.00		
Sample Temperature:		97.00		
Pressure Base	pressure unit	14.73		
Temperature Base	temp unit	60.00		
Heating Value:		1185.839	Specific Gravity:	0.669

Remark: <RLujan>:tag #0517

Monthly Meter Analysis

March, 2019



Meter #: 36606-30
Name: SIMMONS E 2 A WH REC

Sample

Date: 02/28/2019
Type: Spot
Pressure: 132.0 H2O: lbs/mm
Temperature: 47.0 H2S: ppm

Component	Mole %	Liquid Content	Mass %
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Carbon Dioxide, CO2	1.1380		2.4626
Nitrogen, N2	0.2790		0.3843
Methane, C1	82.7160		65.2475
Ethane, C2	8.5230	2.2790	12.6013
Propane, C3	4.2520	1.1710	9.2192
Isobutane, iC4	0.7740	0.2530	2.2120
n-Butane, nC4	1.1790	0.3720	3.3694
Isopentane, iC5	0.3840	0.1410	1.3623
n-Pentane, nC5	0.3030	0.1100	1.0749
Hexanes Plus, C6+	0.4510	0.2010	2.0665
Water, H2O			
Hydrogen Sulfide, H2S			
Oxygen, O2			
Carbon Monoxide, CO			
Hydrogen, H2			
Helium, He			
Argon, Ar			

Property	Total Sample
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Pressure Base	14.730
Temperature Base	0.00
Relative Density	0.7050
HV, Dry @ Base P, T	1214.31
HV, Sat @ Base P, T	1193.18
HV, Sat @ Sample P, T	
Fws Factor	
Cricondentherm	
HCDP @ Sample Pressure	
Free Water GPM	
Stock Tank Condensate Brls/mm	
26 # RVP Gasoline	0.670
Testcar Permian	0.490
Testcar Panhandle	0.573
Testcar Midcon	0.530

Totals	99.9990	4.5270	100.0000
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