



Williams Midstream
GQ2 - Certificate of Analysis
Period: January 2016

Gas Quality Name:	36594		
Gas Quality Description:	SIMMONS 5		
Lab Code:			
Effective Date/Time:	June-18-2015 8:00 AM	Analyzed Date/Time:	June-18-2015 11:40 AM
Sample Date/Time:	June-17-2015 2:35 PM	Sample Type:	Periodic Resample - Spot
Sampled By:		Sample Number:	0519

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)		0.261		
Carbon Dioxide (CO2)		0.165		
Methane (C1)		87.725	14.912	
Ethane (C2)		6.130	1.644	
Propane (C3)		3.075	0.849	
I-butane (IC4)		0.600	0.197	
N-butane (NC4)		0.852	0.269	
I-pentane (IC5)		0.318	0.117	
N-pentane (NC5)		0.229	0.083	
Hexanes (C6)		0.387	0.160	
Heptanes (C7)		0.194	0.090	
Octanes (C8)		0.065	0.033	
Nonanes (C9)		0.000	0.000	
Decanes (C10)		0.000	0.000	
C6+		0.645		
C5 Plus		0.012		
CO2 + N2		0.004		
Total Composition		100.000		

Calculation Parameters				
Sample Pressure:		169.00		
Sample Temperature:		112.00		
Pressure Base	pressure unit	14.73		
Temperature Base	temp unit	60.00		
Heating Value:		1180.384	Specific Gravity:	0.667

Remark:	<RLujan>:tag 0519

Monthly Meter Analysis

March, 2019



Meter #: 36607-30
Name: SIMMONS E 3 C WH REC

Sample

Date: 02/28/2019
Type: Spot
Pressure: 138.0 H2O: lbs/mm
Temperature: 44.0 H2S: ppm

Component	Mole %	Liquid Content	Mass %
Carbon Dioxide, CO2	1.0760		2.1507
Nitrogen, N2	0.3160		0.4020
Methane, C1	75.6800		55.1410
Ethane, C2	12.1300	3.2430	16.5654
Propane, C3	6.4600	1.7790	12.9375
Isobutane, iC4	1.0220	0.3340	2.6978
n-Butane, nC4	1.8820	0.5930	4.9680
Isopentane, iC5	0.5410	0.1980	1.7728
n-Pentane, nC5	0.4340	0.1570	1.4221
Hexanes Plus, C6+	0.4590	0.2050	1.9427
Water, H2O			
Hydrogen Sulfide, H2S			
Oxygen, O2			
Carbon Monoxide, CO			
Hydrogen, H2			
Helium, He			
Argon, Ar			
Totals	100.0000	6.5090	100.0000

Property	Total Sample
Pressure Base	14.730
Temperature Base	0.00
Relative Density	0.7630
HV, Dry @ Base P, T	1306.95
HV, Sat @ Base P, T	1284.20
HV, Sat @ Sample P, T	
Fws Factor	
Cricondentherm	
HCDP @ Sample Pressure	
Free Water GPM	
Stock Tank Condensate Brls/mm	
26 # RVP Gasoline	0.816
Testcar Permian	0.642
Testcar Panhandle	0.689
Testcar Midcon	0.687