

Certificate of Analysis Number: 1010015-04A

FOR: Williams Midstream
 Katie Maley
 1550 Coraopolis Heights Rd.

Moon Township, PA 15108

CUSTOMER: Williams Midstream
 FIELD : PA
 LOCATION : Springhill Compressor Station
 SAMPLE POINT: Dehydrator Inlet
 REPORT DATE: 10/11/2010
 SAMPLE DATE: 10/5/2010 @ 12:27
 SAMPLED BY: AS
 MEMO: GlyCalc

TYPE: Extended C
 REPORT: C6+
 CYLINDER: 4
 PRESSURE: 695
 TEMPERATURE: 76

<u>COMPONENT</u>	<u>MOL %</u>	<u>WEIGHT %</u>	<u>GPM'S @ 14.73</u>
N2	0.451	0.761	
CO2	0.235	0.623	
METHANE	96.736	93.458	
ETHANE	2.241	4.058	0.598
PROPANE	0.208	0.552	0.057
I-BUTANE	0.030	0.105	0.010
N-BUTANE	0.043	0.151	0.014
I-PENTANE	0.016	0.070	0.006
N-PENTANE	0.012	0.051	0.004
<u>HEXANES PLUS</u>	<u>0.028</u>	<u>0.172</u>	<u>0.013</u>
TOTALS	100.000	100.000	0.702

CALCULATED VALUES

	<u>TOTAL</u>	<u>C6+</u>	<u>C7+</u>
MOLECULAR WEIGHT	16.606	99.294	108.862
REAL DRY BTU AT 14.73 PSIA, 60 DEG.F	1029.3	5449	5950
REAL WET BTU AT 14.73 PSIA, 60 DEG.F	1011.3	5354.6	5846.8
RELATIVE DENSITY	0.5733	3.3682	3.7587

GPM's AT 14.73 PSIA, 60 DEG.F

C2+ 0.702
IC5+ 0.023

COMPRESSIBILITY FACTOR

0.9979