

Certificate of Analysis Number: 1010015-04A

FOR: Williams Midstream
Katie Maley
1550 Coraopolis Heights Rd.

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

Moon Township, PA 15108

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
HEXANES PLUS	0.028	0.172	0.013
TOTALS	100.000	100.000	0.702

CALCULATED VALUES

MOLECULAR WEIGHT
REAL DRY BTU
AT 14.73 PSIA, 60 DEG.F
REAL WET BTU
AT 14.73 PSIA, 60 DEG.F
RELATIVE DENSITY

<u>TOTAL</u>	<u>C6+</u>	<u>C7+</u>
16.606	99.294	108.862
1029.3	5449	5950
1011.3	5354.6	5846.8
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