



30-045-13268

Gas Analysis Certificate

GPA Standard 2261-13

Method Name C6+ Excel Recalc2
Last calibration date 6/19/2015 8:47:52 AM

Client: BP Project #: 03143-0880
Site Name: Hutton GC 1 Meter ID: 3004513268 (BHD)
Sampled by: Daniel F. Date Sampled: 06-09-15
Analyzed by: Logan Richter Date Received: 06-19-15
Sample Pressure: 80 psig Date Analyzed: 06-24-15
Sample Temperature Analysis Time: Standard

Component Results (14.696)

Name	Qty (Norm) [Mol %]	Wt Percent (%)	GPM
Helium	0.469	0.101	0.048
Oxygen	0.004	0.007	0.000
Nitrogen	0.258	0.387	0.028
Carbon Dioxide	0.000	0.000	0.000
Methane	87.410	75.147	14.822
Ethane	7.148	11.518	1.912
Propane	2.915	6.888	0.803
i-Butane	0.534	1.664	0.175
n-Butane	0.785	2.445	0.248
i-Pentane	0.277	1.073	0.101
n-Pentane	0.199	0.769	0.072
C6+	0.000	0.000	0.000
	100.000	100.000	18.210

Calculations at Pressure Base 14.696

Compressibility (Z) (Dry Gas)	0.99722	C2+	3.311
Density (G) (Dry Gas)	0.64429	C3+	1.399
Component MW Total	18.66	C5+	0.174
Heating Value (Dry Ideal) Total BTU	1144.75	Heating Value (Sat Ideal) Total BTU	1124.77
Heating Value (Dry Real) Total BTU	1147.94	Heating Value (Sat Real) Total BTU	1127.80

Reviewed by

07/01/2015
mm dd yyyy



Gas Analysis Certificate

GPA Standard 2261-13

Method Name C6+ Excel Recalc2
Last calibration date 6/19/2015 8:47:52 AM

Client:	BP	Project #:	03143-0880
Site Name:	Hutton GC 1	Meter ID:	3004513268 (CSG)
Sampled by:	Daniel F.	Date Sampled:	06-09-15
Analyzed by:	Logan Richter	Date Received:	06-19-15
Sample Pressure:	403 psig	Date Analyzed:	06-24-15
Sample Temperature		Analysis Time:	Standard

Component Results (14.696)

Name	Qty (Norm) (Mol %)	Wt Percent (%)	GPM
Helium	1.775	0.368	0.180
Oxygen	0.007	0.012	0.001
Nitrogen	0.469	0.680	0.052
Carbon Dioxide	1.412	3.215	0.241
Methane	82.373	68.356	13.969
Ethane	8.589	13.359	2.298
Propane	3.477	7.931	0.958
i-Butane	0.504	1.514	0.165
n-Butane	0.878	2.640	0.277
i-Pentane	0.273	1.020	0.100
n-Pentane	0.243	0.906	0.088
C6+	0.000	0.000	0.000
	100.000	100.000	18.329

Calculations at Pressure Base 14.696

Compressibility (Z) (Dry Gas)	0.99710	C2+	3.886
Density (G) (Dry Gas)	0.66748	C3+	1.588
Component MW Total	19.33	C5+	0.188
Heating Value (Dry Ideal) Total BTU	1137.13	Heating Value (Sat Ideal) Total BTU	1117.29
Heating Value (Dry Real) Total BTU	1140.44	Heating Value (Sat Real) Total BTU	1120.42

Reviewed by 

07/01/2015
mm dd yyyy