



HPI 30-045-2415
Bradenhead

Gas Analysis Certificate

GPA Standard 2261-13

Acquisition Method Name au_report_150_C6+
Last calibration date 9/28/2015 11:07:06 AM

Client:	BP	Project #:	03143-0880
Site Name:	GCU 170E	Meter ID:	3004524175 (BHD)
Sampled by:	Daniel F.	Date Sampled	09-28-15
Analyzed by:	Logan Richter	Date Received:	10-15-15
Sample Pressure:	86 psig	Date Analyzed:	10-16-15
Sample Temperature	N/R	Analysis Time:	Standard

Component Results (14.696)

Name	Qty (Norm) [Mol %]	Wt Percent (%)	GPM
Helium	0.000	0.000	0.000
Oxygen	0.018	0.032	0.002
Nitrogen	0.461	0.704	0.051
Carbon Dioxide	0.000	0.000	0.000
Methane	89.302	78.142	15.141
Ethane	6.584	10.798	1.761
Propane	2.297	5.524	0.633
i-Butane	0.408	1.294	0.134
n-Butane	0.472	1.496	0.149
i-Pentane	0.161	0.634	0.059
n-Pentane	0.105	0.415	0.038
C6+	0.192	0.962	0.084
	100.000	100.000	18.050

Calculations at Pressure Base 14.696

Compressibility (Z) (Dry Gas)	0.99733	C2+	2.857
Density (G) (Dry Gas)	0.63310	C3+	1.096
Component MW Total	18.33	C5+	0.181
Heating Value (Dry Ideal) Total BTU	1125.43	Heating Value (Sat Ideal) Total BTU	1105.79
Heating Value (Dry Real) Total BTU	1128.44	Heating Value (Sat Real) Total BTU	1108.64

RSB

11/01/2015