



Gas Analysis Certificate

OIL CONS. DIV DIST. 3 GPA Standard 2261-13

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

DEC 18 2015

Client: BP Project #: 03143-0880
Site Name: GCU 201E Meter ID: 3004526189 (BHD)
Sampled by: Daniel F. Date Sampled: 09-14-15
Analyzed by: Logan Richter Date Received: 10-15-15
Sample Pressure: 38 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	1.088	1.853	0.097
Nitrogen	4.278	6.380	0.471
Carbon Dioxide	0.007	0.016	0.001
Methane	85.557	73.066	14.503
Ethane	5.699	9.122	1.524
Propane	2.012	4.723	0.554
i-Butane	0.376	1.165	0.123
n-Butane	0.469	1.450	0.148
i-Pentane	0.165	0.635	0.060
n-Pentane	0.110	0.422	0.040
C6+	0.239	1.168	0.104
	100.000	100.000	17.625

Calculations at Pressure Base 14.696

Compressibility (Z) (Dry Gas)	0.99752	C2+	2.554
Density (G) (Dry Gas)	0.64870	C3+	1.030
Component MW Total	18.79	C5+	0.204
Heating Value (Dry Ideal) Total BTU	1066.40	Heating Value (Sat Ideal) Total BTU	1047.79
Heating Value (Dry Real) Total BTU	1069.06	Heating Value (Sat Real) Total BTU	1050.31

RSPgm

11/01/2015