



API 30-045-26206
Casing

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 178E	Meter ID:	3004526206 (CSG)
Sampled by:	Brandon K.	Date Sampled	10-16-15
Analyzed by:	Logan Richter	Date Received:	10-19-15
Sample Pressure:	143 psig	Date Analyzed:	10-26-15
Sample Temperature	NA	Analysis Time:	Standard

Component Results (14.696)

Name	Qty (Norm) [Mol %]	Wt Percent (%)	GPM
Helium	0.000	0.000	0.000
Oxygen	0.016	0.027	0.001
Nitrogen	0.884	1.285	0.097
Carbon Dioxide	0.593	1.355	0.101
Methane	85.357	71.097	14.476
Ethane	8.600	13.426	2.301
Propane	2.669	6.111	0.736
i-Butane	0.426	1.286	0.140
n-Butane	0.639	1.929	0.202
i-Pentane	0.225	0.844	0.082
n-Pentane	0.172	0.644	0.062
C6+	0.418	1.996	0.183
	100.000	100.000	18.381

Calculations at Pressure Base 14.696

Compressibility (Z) (Dry Gas)	0.99707	C2+	3.705
Density (G) (Dry Gas)	0.66519	C3+	1.404
Component MW Total	19.26	C5+	0.327
Heating Value (Dry Ideal) Total BTU	1153.54	Heating Value (Sat Ideal) Total BTU	1133.41
Heating Value (Dry Real) Total BTU	1156.93	Heating Value (Sat Real) Total BTU	1136.62

BSA-

11/03/2015