



30-045-24110
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 170E	Meter ID:	3004524175 (CSG)
Sampled by:	Daniel F.	Date Sampled	09-28-15
Analyzed by:	Logan Richter	Date Received:	10-15-15
Sample Pressure:	154 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	0.008	0.013	0.001
Nitrogen	0.541	0.716	0.060
Carbon Dioxide	0.775	1.611	0.132
Methane	79.011	59.877	13.409
Ethane	10.699	15.198	2.865
Propane	5.251	10.939	1.448
i-Butane	0.798	2.192	0.262
n-Butane	1.503	4.127	0.474
i-Pentane	0.440	1.501	0.161
n-Pentane	0.419	1.428	0.152
C6+	0.552	2.396	0.241
	100.000	100.000	19.205

Calculations at Pressure Base 14.696

Compressibility (Z) (Dry Gas)	0.99635	C2+	5.603
Density (G) (Dry Gas)	0.73115	C3+	2.739
Component MW Total	21.17	C5+	0.554
Heating Value (Dry Ideal) Total BTU	1257.23	Heating Value (Sat Ideal) Total BTU	1235.29
Heating Value (Dry Real) Total BTU	1261.83	Heating Value (Sat Real) Total BTU	1239.66