



30-045-24988
Bradenhead
Gas Analysis Certificate

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

Acquisition Method Name au_report_150_C6+
Last calibration date 7/10/2015 10:21:38 AM

DEC 18 2015

Client:	BP	Project #:	03143-0880
Site Name:	Heaton LS #9A	Meter ID:	3004524988 (BHD)
Sampled by:	Sawyer M.	Date Sampled:	07-20-15
Analyzed by:	Logan Richter	Date Received:	07-20-15
Sample Pressure:	10 psig	Date Analyzed:	07-22-15
Sample Temperature:	N/A	Analysis Time:	Standard

Component Results (14.696)

Name	Qty (Norm) [Mol %]	Wt Percent (%)	GPM
Helium	0.044	0.009	0.004
Oxygen	0.121	0.199	0.011
Nitrogen	1.633	2.353	0.180
Carbon Dioxide	0.000	0.000	0.000
Methane	84.963	70.116	14.410
Ethane	7.449	11.522	1.993
Propane	3.407	7.728	0.939
i-Butane	0.614	1.834	0.201
n-Butane	0.897	2.682	0.283
i-Pentane	0.326	1.209	0.119
n-Pentane	0.231	0.859	0.084
C6+	0.315	1.488	0.137
	100.000	100.000	18.361

Calculations at Pressure Base 14.696

Compressibility (Z) (Dry Gas)	0.99704	C2+	3.756
Density (G) (Dry Gas)	0.67133	C3+	1.763
Component MW Total	19.44	C5+	0.341
Heating Value (Dry Ideal) Total BTU	1163.35	Heating Value (Sat Ideal) Total BTU	1143.05
Heating Value (Dry Real) Total BTU	1166.80	Heating Value (Sat Real) Total BTU	1146.33