



Gas Analysis Certificate

GPA Standard 2261-13

Method Name au_report_150_C6+
Last calibration date 1/15/2015 1:00:58 PM

Client:	BP	Project #:	03143-0880
Site Name:	Cornell D1E (BHD)	Meter ID:	3004524086
Sampled by:	Brandon K.	Date Sampled	05-11-15
Analysed by:	Logan Richter	Date Received:	05-12-15
Sample Pressure:	22 psig	Date Analyzed:	05-13-15
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	0.010	0.015	0.001
Nitrogen	0.787	1.033	0.087
Carbon Dioxide	1.151	2.374	0.197
Methane	77.845	58.503	13.212
Ethane	10.835	15.262	2.901
Propane	5.767	11.913	1.591
i-Butane	0.800	2.179	0.262
n-Butane	1.626	4.427	0.513
i-Pentane	0.435	1.470	0.159
n-Pentane	0.409	1.381	0.148
C6+	0.335	1.444	0.147
	100.000	100.000	19.217

Calculations at Pressure Base 14.696

Compressibility (Z) (Dry Gas)	0.99634	C2+	5.721
Density (G) (Dry Gas)	0.73718	C3+	2.820
Component MW Total	21.35	C5+	0.454
Heating Value (Dry Ideal) Total BTU	1253.14	Heating Value (Sat Ideal) Total BTU	1231.27
Heating Value (Dry Real) Total BTU	1257.73	Heating Value (Sat Real) Total BTU	1235.63


Reviewed by

05/22/2015
mm/dd/yyyy



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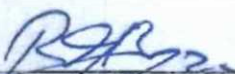
Client:	BP	Project #:	03143-0880
Site Name:	Cornell D1E (CSG)	Meter ID:	3004524086
Sampled by:	Brandon K.	Date Sampled:	N/R
Analysed by:	Logan Richter	Date Received:	05-12-15
Sample Pressure:	481 psig	Date Analyzed:	05-13-15
Sample Temperature:	N/R	Analysis Time:	Standard

Component Results (14.696)

Name	Qty (Norm) [Mol %]	Wt Percent (%)	GPM
Helium	0.000	0.000	0.000
Oxygen	0.006	0.010	0.001
Nitrogen	0.467	0.653	0.051
Carbon Dioxide	1.276	2.804	0.218
Methane	83.252	66.692	14.122
Ethane	8.528	12.805	2.282
Propane	3.832	8.438	1.056
i-Butane	0.564	1.637	0.185
n-Butane	1.138	3.304	0.359
i-Pentane	0.334	1.205	0.122
n-Pentane	0.317	1.142	0.115
C6+	0.285	1.309	0.125
	100.000	100.000	18.637

Calculations at Pressure Base 14.696

Compressibility (Z) (Dry Gas)	0.99682	C2+	4.244
Density (G) (Dry Gas)	0.69156	C3+	1.962
Component MW Total	20.03	C5+	0.362
Heating Value (Dry Ideal) Total BTU	1184.39	Heating Value (Sat Ideal) Total BTU	1163.72
Heating Value (Dry Real) Total BTU	1188.16	Heating Value (Sat Real) Total BTU	1167.30


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