



30-045-24283

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 #:	03143-0915
Site Name:	Cornell A 001-DK (BHD)	Meter ID:	3004508601
Sampled by:	Daniel F.	Date Sampled:	05-13-15
Analysed by:	Logan Richter	Date Received:	05-12-15
Sample Pressure:	23 psig	Date Analyzed:	05-18-15
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	0.004	0.007	0.000
Nitrogen	0.317	0.466	0.035
Carbon Dioxide	0.131	0.303	0.022
Methane	87.347	73.604	14.813
Ethane	7.170	11.324	1.918
Propane	2.891	6.695	0.797
i-Butane	0.512	1.564	0.168
n-Butane	0.755	2.304	0.238
i-Pentane	0.264	1.001	0.097
n-Pentane	0.201	0.761	0.073
C6+	0.408	1.970	0.178
	100.000	100.000	18.339

Calculations at Pressure Base 14.696

Compressibility (Z) (Dry Gas)	0.99708	C2+	3.468
Density (G) (Dry Gas)	0.65751	C3+	1.550
Component MW Total	19.04	C5+	0.348
Heating Value (Dry Ideal) Total BTU	1162.65	Heating Value (Sat Ideal) Total BTU	1142.36
Heating Value (Dry Real) Total BTU	1166.05	Heating Value (Sat Real) Total BTU	1145.59


Reviewed by

05/22/2015
mm/dd/yyyy



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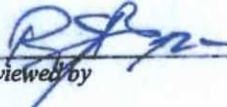
Client: BP Project #: 03143-0915
Site Name: Cornell A 001-DK (CSG) Meter ID: 3004508601
Sampled by: Daniel F. Date Sampled: 05-13-15
Analysed by: Logan Richter Date Received: 05-12-15
Sample Pressure: 338 psig Date Analyzed: 05-18-15
Sample Temperature: N/R Analysis Time: Standard

Component Results (14.696)

Name	Qty (Norm) [Mol %]	Wt Percent (%)	GPM
Helium	0.000	0.000	0.000
Oxygen	0.011	0.016	0.001
Nitrogen	0.862	1.151	0.095
Carbon Dioxide	1.435	3.012	0.245
Methane	78.475	60.025	13.316
Ethane	11.113	15.932	2.975
Propane	5.144	10.815	1.418
i-Butane	0.742	2.056	0.243
n-Butane	1.303	3.611	0.411
i-Pentane	0.350	1.204	0.128
n-Pentane	0.316	1.086	0.115
C6+	0.249	1.092	0.109
	100.000	100.000	19.056

Calculations at Pressure Base 14.696

Compressibility (Z) (Dry Gas)	0.99651	C2+	5.399
Density (G) (Dry Gas)	0.72427	C3+	2.424
Component MW Total	20.97	C5+	0.352
Heating Value (Dry Ideal) Total BTU	1224.78	Heating Value (Sat Ideal) Total BTU	1203.41
Heating Value (Dry Real) Total BTU	1229.06	Heating Value (Sat Real) Total BTU	1207.47

Reviewed by 

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