



30-045-24132

Gas Analysis Certificate

GPA Standard 2261-13

Method Name C6+ Excel Recalc2
Last calibration date 6/19/2015 8:47:52 AM

Client:	BP	Project #:	03143-0880
Site Name:	Comell A1E	Meter ID:	3004524132 (BHD)
Sampled by:	Daniel F.	Date Sampled:	052615
Analyzed by:	Logan Richter	Date Received:	060215
Sample Pressure:	88 psi	Date Analyzed:	060415
Sample Temperature	NA	Analysis Time:	Standard

Component Results (14.696)

Name	Qty (Norm) [Mol %]	Wt Percent (%)	GPM
Helium	0.522	0.110	0.053
Oxygen	0.276	0.463	0.025
Nitrogen	1.990	2.920	0.219
Carbon Dioxide	0.716	1.651	0.122
Methane	84.893	71.345	14.394
Ethane	6.845	10.783	1.831
Propane	2.880	6.654	0.794
i-Butane	0.596	1.814	0.195
n-Butane	0.792	2.413	0.250
i-Pentane	0.278	1.050	0.102
n-Pentane	0.212	0.801	0.077
C6+	0.000	0.000	0.000
	100.000	100.000	18.061

Calculations at Pressure Base 14.696

Compressibility (Z) (Dry Gas)	0.99726	C2+	3.248
Density (G) (Dry Gas)	0.65909	C3+	1.417
Component MW Total	19.09	C5+	0.178
Heating Value (Dry Ideal) Total BTU	1115.85	Heating Value (Sat Ideal) Total BTU	1096.38
Heating Value (Dry Real) Total BTU	1118.92	Heating Value (Sat Real) Total BTU	1099.29

Reviewed by 07/01/2015
mm/dd/yyyy



Gas Analysis Certificate

GPA Standard 2261-13

Method Name C6+ Excel Recalc2
Last calibration date 6/19/2015 8:47:52 AM

Client:	BP	Project #:	03143-0880
Site Name:	Cornell A1E	Meter ID:	3004524132 (CSG)
Sampled by:	Daniel F.	Date Sampled:	052615
Analyzed by:	Logan Richter	Date Received:	060215
Sample Pressure:	243 psi	Date Analyzed:	060415
Sample Temperature	NA	Analysis Time:	Standard

Component Results (14.696)

Name	Qty (Norm) [Mol %]	Wt Percent (%)	GPM
Helium	1.511	0.288	0.154
Oxygen	0.064	0.098	0.006
Nitrogen	1.072	1.433	0.118
Carbon Dioxide	1.288	2.704	0.220
Methane	76.348	58.419	12.955
Ethane	11.068	15.874	2.963
Propane	5.232	11.004	1.443
i-Butane	0.781	2.164	0.256
n-Butane	1.575	4.365	0.497
i-Pentane	0.519	1.786	0.190
n-Pentane	0.542	1.865	0.197
C6+	0.000	0.000	0.000
	100.000	100.000	18.997

Calculations at Pressure Base 14.696

Compressibility (Z) (Dry Gas)	0.99655	C2+	5.545
Density (G) (Dry Gas)	0.72389	C3+	2.582
Component MW Total	20.97	C5+	0.387
Heating Value (Dry Ideal) Total BTU	1217.87	Heating Value (Sat Ideal) Total BTU	1196.62
Heating Value (Dry Real) Total BTU	1222.09	Heating Value (Sat Real) Total BTU	1200.62

RF 7/20
Reviewed by

07/01/2015
mm/dd/yyyy