



OIL CONS. DIV DIST. 3

Gas Analysis Certificate

GPA 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:	GCU 555	Meter ID:	3004530683 (CSG)
Sampled by:	Daniel F.	Date Sampled	06-24-15
Analyzed by:	Logan Richter	Date Received:	07-13-15
Sample Pressure:	107 psig	Date Analyzed:	07-15-15
Sample Temperature	N/R	Analysis Time:	Standard

Component Results (14.696)

Name	Qty (Norm) [Mol %]	Wt Percent (%)	GPM
Helium	0.035	0.006	0.004
Oxygen	0.006	0.008	0.001
Nitrogen	0.426	0.504	0.047
Carbon Dioxide	1.100	2.046	0.188
Methane	70.989	48.118	12.060
Ethane	13.169	16.731	3.529
Propane	7.844	14.615	2.166
i-Butane	1.216	2.985	0.399
n-Butane	2.683	6.589	0.848
i-Pentane	0.869	2.650	0.319
n-Pentane	0.849	2.587	0.308
C6+	0.814	3.160	0.356
	100.000	100.000	20.224

Calculations at Pressure Base 14.696

Compressibility (Z) (Dry Gas)	0.99532	C2+	7.924
Density (G) (Dry Gas)	0.81754	C3+	4.395
Component MW Total	23.67	C5+	0.983
Heating Value (Dry Ideal) Total BTU	1385.02	Heating Value (Sat Ideal) Total BTU	1360.85
Heating Value (Dry Real) Total BTU	1391.53	Heating Value (Sat Real) Total BTU	1367.02

10/19/2015

CP1 3004530683
Bradenhead



Gas Analysis Certificate

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

Client:	BP	Project #:	03143-0880
Site Name:	GCU 555	Meter ID:	3004530683 (BHD)
Sampled by:	Daniel F.	Date Sampled	06-24-15
Analyzed by:	Logan Richter	Date Received:	07-13-15
Sample Pressure:	57 psig	Date Analyzed:	07-15-15
Sample Temperature	N/R	Analysis Time:	Standard

Component Results (14.696)

Name	Qty (Norm) [Mol %]	Wt Percent (%)	GPM
Helium	0.009	0.002	0.001
Oxygen	0.004	0.007	0.000
Nitrogen	0.292	0.449	0.032
Carbon Dioxide	0.000	0.000	0.000
Methane	90.037	79.255	15.265
Ethane	6.036	9.959	1.614
Propane	2.273	5.498	0.626
i-Butane	0.418	1.333	0.137
n-Butane	0.488	1.557	0.154
i-Pentane	0.165	0.652	0.060
n-Pentane	0.106	0.418	0.038
C6+	0.173	0.870	0.075
	100.000	100.000	18.004

Calculations at Pressure Base 14.696

Compressibility (Z) (Dry Gas)	0.99736	C2+	2.705
Density (G) (Dry Gas)	0.62933	C3+	1.091
Component MW Total	18.22	C5+	0.174
Heating Value (Dry Ideal) Total BTU	1122.56	Heating Value (Sat Ideal) Total BTU	1102.97
Heating Value (Dry Real) Total BTU	1125.54	Heating Value (Sat Real) Total BTU	1105.79

RS/R

10/19/2015