



OIL CONS. DIV DIST. 3

Gas Analysis Certificate

DEC 18 2015

GPA Standard 2261-13

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

Client:	BP	Project #:	03143-0880
Site Name:	Florence GC B1E	Meter ID:	3004525541 (BHD)
Sampled by:	Daniel F.	Date Sampled	07-09-15
Analyzed by:	Logan Richter	Date Received:	07-13-15
Sample Pressure:	28 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	0.017	0.004	0.002
Oxygen	0.007	0.011	0.001
Nitrogen	0.392	0.579	0.043
Carbon Dioxide	0.000	0.000	0.000
Methane	87.643	74.191	14.863
Ethane	7.070	11.217	1.891
Propane	2.794	6.501	0.770
i-Butane	0.503	1.542	0.165
n-Butane	0.695	2.130	0.219
i-Pentane	0.252	0.960	0.092
n-Pentane	0.175	0.665	0.063
C6+	0.454	2.200	0.198
	100.000	100.000	18.307

Calculations at Pressure Base 14.696

Compressibility (Z) (Dry Gas)	0.99711	C2+	3.399
Density (G) (Dry Gas)	0.65453	C3+	1.507
Component MW Total	18.95	C5+	0.354
Heating Value (Dry Ideal) Total BTU	1159.97	Heating Value (Sat Ideal) Total BTU	1139.73
Heating Value (Dry Real) Total BTU	1163.34	Heating Value (Sat Real) Total BTU	1142.92

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GPA Standard 2261-13

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

Client: BP Project #: 03143-0880
Site Name: Florence GC B1E Meter ID: 3004525541 (CSG)
Sampled by: Daniel F. Date Sampled: 07-09-15
Analyzed by: Logan Richter Date Received: 07-13-15
Sample Pressure: 27 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	0.051	0.010	0.005
Oxygen	0.009	0.013	0.001
Nitrogen	0.643	0.855	0.071
Carbon Dioxide	1.181	2.467	0.202
Methane	79.837	60.786	13.549
Ethane	10.079	14.383	2.698
Propane	4.593	9.613	1.267
i-Butane	0.643	1.774	0.211
n-Butane	1.298	3.580	0.410
i-Pentane	0.397	1.358	0.145
n-Pentane	0.399	1.367	0.145
C6+	0.870	3.793	0.380
	100.000	100.000	19.083

Calculations at Pressure Base 14.696

Compressibility (Z) (Dry Gas)	0.99641	C2+	5.255
Density (G) (Dry Gas)	0.72789	C3+	2.557
Component MW Total	21.07	C5+	0.670
Heating Value (Dry Ideal) Total BTU	1240.03	Heating Value (Sat Ideal) Total BTU	1218.39
Heating Value (Dry Real) Total BTU	1244.50	Heating Value (Sat Real) Total BTU	1222.63

[Signature]

10/19/2015



NEW MEXICO ENERGY, MINERALS
AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE
1000 RIO BRAZOS ROAD
AZTEC, NM 87410
(505) 334-6178 FAX: (505) 334-6170
<http://www.emnrd.state.nm.us/ocd/>

OIL CONS. DIV DIST. 3

DEC 18 2015

BRADENHEAD TEST REPORT

(Submit 2 copies to above address)

Date of Test 5-13-15 Operator BP America Production Company API # 3004525541

Property Name FLORENCE GC B 001E-DK Location: Unit F Section 9 Township 29 Range 12

(Well Name and Number)

Pressure (Shut-in or Producing) Tubing 142 Intermediate NA Casing 141 Bradenhead 25

OPEN BRADENHEAD AND INTERMEDIATE TO ATMOSPHERE INDIVIDUALLY FOR 15 MINUTES EACH

Time	Bradenhead			Intermediate		Bradenhead Intermediate	
	BH Blowdown	Casing Monitor	Intermediate Monitor	Intermediate Blowdown	Casing Monitor	Flowed	Flowed
5 minutes	<u>W</u>	<u>148</u>				Steady Flow	
10 minutes	<u>W</u>	<u>151</u>				Surges	
15 minutes	<u>W</u>	<u>153</u>				Down to Nothing	
20 minutes	<u>W</u>	<u>155</u>				No Flow	
25 minutes	<u>W</u>	<u>156</u>				Gas	
30 minutes	<u>W</u>	<u>156</u>				Gas and Water	
5 minute SI						Water	

If bradenhead flowed water, check all of the descriptions that apply below:

Clear ☐ Fresh ☐ Salty ☐ Sulfur ☐ Black ☐

5 Minute Shut-in Bradenhead 1 Intermediate NA

REMARKS:

Blew through 1" valve. BH blew down to a whisper in 1 min.
BH whispered through out 30 min Test. "W" = whisper

By Witness _____

Daniel Foster

(Position)