



OIL CONS. DIV DIST. 3

DEC 18 2015

API 30-045-25210
Bradenhead
Gas Analysis Certificate

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:	GCU 263E	Meter ID:	3004525210 (BHD)
Sampled by:	Sawyer M.	Date Sampled	07-14-15
Analyzed by:	Logan Richter	Date Received:	07-14-15
Sample Pressure:	25 psig	Date Analyzed:	07-16-15
Sample Temperature	N/R	Analysis Time:	Standard

Component Results (14.696)

Name	Qty (Norm) [Mol %]	Wt Percent (%)	GPM
Helium	0.012	0.002	0.001
Oxygen	0.562	0.917	0.050
Nitrogen	2.492	3.558	0.274
Carbon Dioxide	0.081	0.182	0.014
Methane	84.810	69.345	14.383
Ethane	6.339	9.715	1.696
Propane	2.962	6.656	0.816
i-Butane	0.617	1.829	0.202
n-Butane	0.904	2.677	0.285
i-Pentane	0.340	1.252	0.125
n-Pentane	0.258	0.950	0.094
C6+	0.623	2.917	0.272
	100.000	100.000	18.212

Calculations at Pressure Base 14.696

Compressibility (Z) (Dry Gas)	0.99707	C2+	3.489
Density (G) (Dry Gas)	0.67770	C3+	1.793
Component MW Total	19.62	C5+	0.490
Heating Value (Dry Ideal) Total BTU	1148.74	Heating Value (Sat Ideal) Total BTU	1128.70
Heating Value (Dry Real) Total BTU	1152.12	Heating Value (Sat Real) Total BTU	1131.90

16.07.2015 14:20:07

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UPI 30-045-25210
CASING



Gas Analysis Certificate

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:	GCU 263E	Meter ID:	3004525210 (CSG)
Sampled by:	Sawyer M.	Date Sampled	07-14-15
Analyzed by:	Logan Richter	Date Received:	07-14-15
Sample Pressure:	91 psig	Date Analyzed:	07-16-15
Sample Temperature	N/R	Analysis Time:	Standard

Component Results (14.696)

Name	Qty (Norm) [Mol %]	Wt Percent (%)	GPM
Helium	0.033	0.006	0.003
Oxygen	0.178	0.261	0.016
Nitrogen	1.472	1.889	0.162
Carbon Dioxide	0.231	0.466	0.039
Methane	78.125	57.418	13.262
Ethane	9.151	12.607	2.451
Propane	5.790	11.698	1.597
i-Butane	1.220	3.249	0.400
n-Butane	1.637	4.360	0.517
i-Pentane	0.635	2.100	0.233
n-Pentane	0.532	1.757	0.193
C6+	0.995	4.191	0.435
	100.000	100.000	19.308

Calculations at Pressure Base 14.696

Compressibility (Z) (Dry Gas)	0.99613	C2+	5.825
Density (G) (Dry Gas)	0.75410	C3+	3.374
Component MW Total	21.83	C5+	0.860
Heating Value (Dry Ideal) Total BTU	1287.57	Heating Value (Sat Ideal) Total BTU	1265.11
Heating Value (Dry Real) Total BTU	1292.58	Heating Value (Sat Real) Total BTU	1269.85

Signature

10/20/2015



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/>

BRADENHEAD TEST REPORT
(Submit 2 copies to above address)

OIL CONS. DIV DIST. 3

DEC 18 2015

Date of Test 5/28/15 Operator BP America Production Company API # 3004525210

Property Name GCU 263E-DK Location: Unit H Section 20 Township 29 Range 12
(Well Name and Number)

Pressure (Shut-in or Producing) Tubing 44 Intermediate N/A Casing 72 Bradenhead 25

OPEN BRADENHEAD AND INTERMEDIATE TO ATMOSPHERE INDIVIDUALLY FOR 15 MINUTES EACH

Time	Bradenhead			Intermediate		Bradenhead Flowed	Intermediate Flowed
	BH Blowdown	Casing Monitor	Intermediate Monitor	Intermediate Blowdown	Casing Monitor		
5 minutes	<u>W</u>	<u>73</u>				Steady Flow	
10 minutes	<u>W</u>	<u>74</u>				Surges	
15 minutes	<u>W</u>	<u>75</u>				Down to Nothing	
20 minutes	<u>W</u>	<u>75</u>				No Flow	
25 minutes	<u>W</u>	<u>75</u>				Gas	
30 minutes	<u>W</u>	<u>75</u>				Gas and Water	
5 minute SI	<u>TSTM</u>	<u>75</u>				Water	

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

Clear _____ Fresh _____ Salty _____ Sulfur _____ Black _____

5 Minute Shut-in Bradenhead TSTM Intermediate N/A

REMARKS:

BH blew to a whisper in 45 sec Blew from 1" valve

unable to take sample

By [Signature] Witness _____

(Position)