



30-045-07910

API 30-045-07910

CASING

Gas Analysis Certificate

OIL CONS. DIV DIST. 3

GPA Standard 2261-13

DEC 18 2015

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 173	Meter ID:	3004507910 (CSG)
Sampled by:	Sawyer M.	Date Sampled:	07-14-15
Analyzed by:	Logan Richter	Date Received:	07-14-15
Sample Pressure:	10 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	0.005	0.001	0.000
Oxygen	0.005	0.009	0.000
Nitrogen	0.136	0.225	0.015
Carbon Dioxide	1.382	3.595	0.236
Methane	96.581	91.598	16.367
Ethane	1.157	2.056	0.309
Propane	0.370	0.965	0.102
i-Butane	0.081	0.279	0.027
n-Butane	0.094	0.323	0.030
i-Pentane	0.040	0.169	0.014
n-Pentane	0.031	0.134	0.011
C6+	0.119	0.647	0.052
	100.000	100.000	17.163

Calculations at Pressure Base 14.696

Compressibility (Z) (Dry Gas)	0.99785	C2+	0.545
Density (G) (Dry Gas)	0.58409	C3+	0.236
Component MW Total	16.92	C5+	0.078
Heating Value (Dry Ideal) Total BTU	1019.91	Heating Value (Sat Ideal) Total BTU	1002.11
Heating Value (Dry Real) Total BTU	1022.11	Heating Value (Sat Real) Total BTU	1004.20

*Signature*

10/20/2015



UPI 30-045-0 M.I.U  
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 173	Meter ID:	3004507910 (BHD)
Sampled by:	Sawyer M.	Date Sampled	07-14-15
Analyzed by:	Logan Richter	Date Received:	07-14-15
Sample Pressure:	10 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	0.009	0.002	0.001
Oxygen	0.015	0.026	0.001
Nitrogen	0.478	0.716	0.053
Carbon Dioxide	0.101	0.237	0.017
Methane	88.725	76.152	15.045
Ethane	6.140	9.877	1.642
Propane	2.598	6.129	0.716
i-Butane	0.540	1.679	0.177
n-Butane	0.672	2.088	0.212
i-Pentane	0.259	0.999	0.095
n-Pentane	0.177	0.683	0.064
C6+	0.287	1.411	0.125
	100.000	100.000	18.148

**Calculations at Pressure Base 14.696**

Compressibility (Z) (Dry Gas)	0.99722	C2+	3.031
Density (G) (Dry Gas)	0.64548	C3+	1.388
Component MW Total	18.69	C5+	0.284
Heating Value (Dry Ideal) Total BTU	1141.78	Heating Value (Sat Ideal) Total BTU	1121.85
Heating Value (Dry Real) Total BTU	1144.96	Heating Value (Sat Real) Total BTU	1124.87

*Logan Richter*

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/

**OIL CONS. DIV DIST. 3**

**DEC 18 2015**

**BRADENHEAD TEST REPORT**  
(Submit 2 copies to above address)

Date of Test 5/29/15 Operator BP America Production Company API # 3004507910

Property Name GCU 173-FT Location: Unit A Section 29 Township 29 Range 12  
(Well Name and Number)

Pressure (Shut-in or Producing) Tubing 7 Intermediate N/A Casing 8 Bradenhead 15

**OPEN BRADENHEAD AND INTERMEDIATE TO ATMOSPHERE INDIVIDUALLY FOR 15 MINUTES EACH**

Time	Bradenhead			Intermediate		Steady Flow	Surges	Down to Nothing	No Flow	Gas	Gas and Water	Water
	BH Blowdown	Casing Monitor	Intermediate Monitor	Intermediate Blowdown	Casing Monitor							
5 minutes	P	8	[Handwritten squiggle]	[Handwritten squiggle]	[Handwritten squiggle]							
10 minutes	W	8										
15 minutes	P	8										
20 minutes	P	9										
25 minutes	P	9										
30 minutes	P	9										
5 minute SI	TSTM	9										

**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 had a puff down to a whisper Blew from 2" valve.  
P = puff W = whisper

not able to get gas sample. Got water sample

By [Signature] Witness \_\_\_\_\_

(Position)