

API 30-045-11683

Casing



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:	GCU 250	Meter ID:	3004511683 (CSG)
Sampled by:	Daniel F.	Date Sampled	06-26-15
Analyzed by:	Logan Richter	Date Received:	07-13-15
Sample Pressure:	24 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	0.024	0.004	0.002
Oxygen	0.008	0.011	0.001
Nitrogen	0.530	0.623	0.058
Carbon Dioxide	0.703	1.299	0.120
Methane	69.688	46.947	11.841
Ethane	14.408	18.193	3.862
Propane	8.816	16.324	2.434
i-Butane	0.905	2.208	0.297
n-Butane	2.555	6.235	0.807
i-Pentane	0.556	1.685	0.204
n-Pentane	0.612	1.855	0.222
C6+	1.196	4.614	0.523
	100.000	100.000	20.372

Calculations at Pressure Base 14.696

Compressibility (Z) (Dry Gas)	0.99521	C2+	8.349
Density (G) (Dry Gas)	0.82274	C3+	4.487
Component MW Total	23.81	C5+	0.949
Heating Value (Dry Ideal) Total BTU	1401.53	Heating Value (Sat Ideal) Total BTU	1377.08
Heating Value (Dry Real) Total BTU	1408.28	Heating Value (Sat Real) Total BTU	1383.48

16.07.2015 14:52:35

10/19/2015

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UP1 30-045-11683
Badenhead

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 250	Meter ID:	3004511683 (BHD)
Sampled by:	Daniel F.	Date Sampled	06-26-15
Analyzed by:	Logan Richter	Date Received:	07-13-15
Sample Pressure:	14 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	0.029	0.005	0.003
Oxygen	0.984	1.453	0.087
Nitrogen	4.672	6.040	0.515
Carbon Dioxide	0.067	0.136	0.011
Methane	75.533	55.914	12.818
Ethane	10.442	14.488	2.795
Propane	4.484	9.123	1.236
i-Butane	0.402	1.077	0.132
n-Butane	1.137	3.049	0.359
i-Pentane	0.394	1.312	0.144
n-Pentane	0.515	1.715	0.187
C6+	1.341	5.688	0.586
	100.000	100.000	18.873

Calculations at Pressure Base 14.696

Compressibility (Z) (Dry Gas)	0.99647	C2+	5.439
Density (G) (Dry Gas)	0.74885	C3+	2.644
Component MW Total	21.67	C5+	0.917
Heating Value (Dry Ideal) Total BTU	1215.84	Heating Value (Sat Ideal) Total BTU	1194.62
Heating Value (Dry Real) Total BTU	1220.15	Heating Value (Sat Real) Total BTU	1198.71

DJR

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/>

BRADENHEAD TEST REPORT

(Submit 2 copies to above address)

OIL CONS. DIV DIST. 3

DEC 18 2015

Date of Test 6/25/15 Operator BP America Production Company API # 3004511683

Property Name GCU 250-GP Location: Unit N Section 14 Township 28 Range 12
(Well Name and Number)

Pressure (Shut-in or Producing) Tubing 17 Intermediate — Casing 21 Bradenhead 23

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>2</u>	<u>21</u>				Steady Flow	
10 minutes	<u>2</u>	<u>21</u>				Surges	
15 minutes	<u>2</u>	<u>21</u>				Down to Nothing	
20 minutes						No Flow	☒
25 minutes						Gas	
30 minutes						Gas and Water	
5 minute SI	<u>2</u>	<u>21</u>				Water	

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

Clear ☐ Fresh ☐ Salty ☐ Sulfur ☐ Black ☐

5 Minute Shut-in Bradenhead 2 Intermediate —

REMARKS:

Blew from 1" valve. BH had a puff down to zero.

By Witness _____

(Position)