



OIL CONS. DIV DIST. 3

DEC 18 2015

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:	Cornell B 1E	Meter ID:	3004524135 (CSG)
Sampled by:	Daniel F.	Date Sampled	06-23-15
Analyzed by:	Logan Richter	Date Received:	06-24-15
Sample Pressure:	145 psig	Date Analyzed:	06-26-15
Sample Temperature	N/R	Analysis Time:	Standard

Component Results (14.696)

Name	Qty (Norm) [Mol %]	Wt Percent (%)	GPM
Helium	0.036	0.006	0.004
Oxygen	0.006	0.009	0.001
Nitrogen	0.390	0.495	0.043
Carbon Dioxide	1.561	3.116	0.267
Methane	76.376	55.569	12.966
Ethane	11.457	15.623	3.068
Propane	5.675	11.349	1.566
i-Butane	0.806	2.126	0.264
n-Butane	1.795	4.730	0.567
i-Pentane	0.539	1.763	0.197
n-Pentane	0.506	1.656	0.184
C6+	0.853	3.556	0.373
	100.000	100.000	19.499

Calculations at Pressure Base 14.696

Compressibility (Z) (Dry Gas)	0.99603	C2+	6.219
Density (G) (Dry Gas)	0.76169	C3+	3.150
Component MW Total	22.05	C5+	0.754
Heating Value (Dry Ideal) Total BTU	1287.33	Heating Value (Sat Ideal) Total BTU	1264.86
Heating Value (Dry Real) Total BTU	1292.45	Heating Value (Sat Real) Total BTU	1269.73



API 30-045-24135

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:	Cornell B 1E	Meter ID:	3004524135 (BHD)
Sampled by:	Daniel F.	Date Sampled	06-23-15
Analyzed by:	Logan Richter	Date Received:	06-24-15
Sample Pressure:	12 psig	Date Analyzed:	06-26-15
Sample Temperature	N/R	Analysis Time:	Standard

Component Results (14.696)

Name	Qty (Norm) [Mol %]	Wt Percent (%)	GPM
Helium	0.010	0.002	0.001
Oxygen	0.004	0.007	0.000
Nitrogen	0.464	0.702	0.051
Carbon Dioxide	0.000	0.000	0.000
Methane	89.698	77.666	15.209
Ethane	5.504	8.933	1.472
Propane	2.418	5.754	0.666
i-Butane	0.513	1.608	0.168
n-Butane	0.617	1.936	0.195
i-Pentane	0.238	0.926	0.087
n-Pentane	0.173	0.673	0.063
C6+	0.361	1.792	0.158
	100.000	100.000	18.070

Calculations at Pressure Base 14.696

Compressibility (Z) (Dry Gas)	0.99726	C2+	2.808
Density (G) (Dry Gas)	0.63987	C3+	1.336
Component MW Total	18.53	C5+	0.307
Heating Value (Dry Ideal) Total BTU	1135.97	Heating Value (Sat Ideal) Total BTU	1116.14
Heating Value (Dry Real) Total BTU	1139.08	Heating Value (Sat Real) Total BTU	1119.10

RSG2

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 5/11/15 Operator BP America Production Company

API # 3004524135

Property Name Cornell BOOLE-DM Location: Unit B Section 14 Township 29 Range 12
(Well Name and Number)

Pressure (Shut-in or Producing) Tubing 209 Intermediate NA Casing 207 Bradenhead 12

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>207</u>				Steady Flow	
10 minutes	<u>W</u>	<u>207</u>				Surges	
15 minutes	<u>W</u>	<u>207</u>				Down to Nothing	
20 minutes	<u>W</u>	<u>207</u>				No Flow	
25 minutes	<u>W</u>	<u>207</u>				Gas	
30 minutes	<u>W</u>	<u>207</u>				Gas and Water	
5 minute SI	<u>W</u>	<u>179</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 NA

REMARKS:

BH had 1" valve. Blew down to 1 min to a whisper. At 26 min. plunger ran & casing dropped. Steady flow for 30 min. 5 min shut in still had a whisper
W = Whisper Take Sample

By Daniel Fuller Witness D. Kelly NMOC

(Position)