



30-45-26198

UPI 30-045-26198
Bradenhead

OIL CONS. DIV DIST. 3

Gas Analysis Certificate

GPA Standard 2261-13

DEC 18 2015

Acquisition Method Name au_report_150_C6+
Last calibration date 9/28/2015 11:07:06 AM

Client:	BP	Project #:	03143-0880
Site Name:	Riddle Corn 9E	Meter ID:	3004526198 (BHD)
Sampled by:	Daniel F.	Date Sampled	09-01-15
Analyzed by:	Logan Richter	Date Received:	10-19-15
Sample Pressure:	30 psig	Date Analyzed:	10-26-15
Sample Temperature	NA	Analysis Time:	Standard

Component Results (14.696)

Name	Qty (Norm) [Mol %]	Wt Percent (%)	GPM
Helium	0.000	0.000	0.000
Oxygen	17.348	20.521	1.537
Nitrogen	61.700	63.894	6.776
Carbon Dioxide	0.000	0.000	0.000
Methane	18.833	11.168	3.187
Ethane	0.795	0.884	0.212
Propane	0.377	0.614	0.104
i-Butane	0.071	0.152	0.023
n-Butane	0.108	0.233	0.034
i-Pentane	0.058	0.156	0.021
n-Pentane	0.042	0.113	0.015
C6+	0.667	2.265	0.290
	100.000	100.000	12.200

Calculations at Pressure Base 14.696

Compressibility (Z) (Dry Gas)	0.99924	C2+	0.700
Density (G) (Dry Gas)	0.93430	C3+	0.488
Component MW Total	27.05	C5+	0.327
Heating Value (Dry Ideal) Total BTU	257.83	Heating Value (Sat Ideal) Total BTU	253.33
Heating Value (Dry Real) Total BTU	258.02	Heating Value (Sat Real) Total BTU	253.52



UPI 30-045-2670
Casing

Gas Analysis Certificate

GPA Standard 2261-13

Acquisition Method Name au_report_150_C6+
Last calibration date 9/28/2015 11:07:06 AM

Client:	BP	Project #:	03143-0880
Site Name:	Riddle Corn 9E	Meter ID:	3004526198 (CSG)
Sampled by:	Daniel F.	Date Sampled	09-01-15
Analyzed by:	Logan Richter	Date Received:	10-19-15
Sample Pressure:	120 psig	Date Analyzed:	10-26-15
Sample Temperature	NA	Analysis Time:	Standard

Component Results (14.696)

Name	Qty (Norm) [Mol %]	Wt Percent (%)	GPM
Helium	0.000	0.000	0.000
Oxygen	0.015	0.024	0.001
Nitrogen	0.309	0.449	0.034
Carbon Dioxide	1.369	3.129	0.234
Methane	87.302	72.736	14.806
Ethane	6.788	10.600	1.816
Propane	1.912	4.378	0.527
i-Butane	0.532	1.605	0.174
n-Butane	0.496	1.497	0.156
i-Pentane	0.321	1.201	0.117
n-Pentane	0.184	0.688	0.067
C6+	0.773	3.691	0.338
	100.000	100.000	18.270

Calculations at Pressure Base 14.696

Compressibility (Z) (Dry Gas)	0.99707	C2+	3.195
Density (G) (Dry Gas)	0.66517	C3+	1.379
Component MW Total	19.26	C5+	0.521
Heating Value (Dry Ideal) Total BTU	1143.31	Heating Value (Sat Ideal) Total BTU	1123.36
Heating Value (Dry Real) Total BTU	1146.67	Heating Value (Sat Real) Total BTU	1126.55

RJA

11/03/2015



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 9/1/15 Operator BP America Production Company API # 3004526198

Property Name RIDDLE COM 009E-DK Location: Unit C Section 17 Township 28 Range 8

(Well Name and Number)

Pressure (Shut-in or Producing) 114 Tubing 114 Intermediate — Casing 120 Bradenhead 30

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	0	120				Steady Flow	
10 minutes	0	120				Surges	
15 minutes	0	120				Down to Nothing	
20 minutes						No Flow	
25 minutes						Gas	
30 minutes						Gas and Water	
5 minute SI	0	120				Water	

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

Clear — Fresh — Salty — Sulfur — Black —

5 Minute Shut-in Bradenhead 0 Intermediate —

REMARKS:

Blew from 1" valve - BH blew to nothing in 3 sec.

By Witness —

(Position)