API 30-045-24011
Casing

envirotech

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:	Crawford GC B1 E	Meter ID:	3004524011 (CSG)
Sampled by:	Daniel F.	Date Sampled	06-23-15
Analyzed by:	Logan Richter	Date Received:	06-24-15
Sample Pressure:	125 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	0.016	0.003	0.002
Oxygen	0.005	0.008	0.000
Nitrogen	0.372	0.552	0.041
Carbon Dioxide	0.282	0.658	0.048
Methane	88.120	74.887	14.943
Ethane	6.269	9.985	1.677
Propane	2.996	6.998	0.826
i-Butane	0.467	1.436	0.153
n-Butane	0.737	2.270	0.233
i-Pentane	0.209	0.799	0.076
n-Pentane	0.157	0.602	0.057
C6+	0.370	1.802	0.162
	100.000	100.000	18.217

Calculations at Pressure Base 14.696

Compressibility (Z) (Dry Gas)	0.99716	C2+	3.183
Density (G) (Dry Gas)	0.65195	C3+	1.506
Component MW Total	18.88	C5+	0.295
Heating Value (Dry Ideal) Total BTU	1149.21	Heating Value (Sat Ideal) Total BTU	1129.16
Heating Value (Dry Real) Total BTU	1152.49	Heating Value (Sat Real) Total BTU	1132.27

14.07.2015 11:11:43

10/20/2015

2

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)

Date of Test 5/11/15 **Operator** BP America Production Company **API #** 3004524011

Property Name Crawford GC B001E-CH **Location:** Unit J Section 24 Township 29 Range 12
(Well Name and Number)

Pressure (Shut-in or Producing) Tubing 88 Intermediate NA Casing 88 Bradenhead 34

OPEN BRADENHEAD AND INTERMEDIATE TO ATMOSPHERE INDIVIDUALLY FOR 15 MINUTES EACH

Time	Bradenhead: BH Blowdown	Bradenhead: Casing Monitor	Bradenhead: Intermediate Monitor	Intermediate: Intermediate Blowdown	Intermediate: Casing Monitor
5 minutes	0	88			
10 minutes	0	88			
15 minutes	0	88			
20 minutes					
25 minutes					
30 minutes					
5 minute SI					

	Bradenhead Flowed	Intermediate Flowed
Steady Flow		
Surges		
Down to Nothing	✓	
No Flow		
Gas		
Gas and Water		
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 NA

REMARKS:

~~Bk~~ light puff on BH down to nothing - 1" BHD valve
Not enough build up on Bradenhead to pull sample

By _____ **Witness** Jonathon D. Kelly NMOCD

(Position)

NMOCD Test Area: B 40