



NEW MEXICO ENERGY, MINERALS
AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE
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<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 6/23/15 Operator BP America Production Company API # 3004511589

Property Name GCU 208-GP/DK Location: Unit H Section 15 Township 28 Range 12
(Well Name and Number)

Pressure (Shut-in or Producing) Tubing 59 Intermediate N/A Casing 39 Bradenhead 97

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>W</u>	<u>39</u>				Steady Flow	
10 minutes	<u>Ø</u>	<u>39</u>				Surges	
15 minutes	<u>Ø</u>	<u>39</u>				Down to Nothing	
20 minutes	<u>Ø</u>	<u>39</u>				No Flow	
25 minutes						Gas	
30 minutes						Gas and Water	
5 minute SI	<u>Ø</u>	<u>39</u>				Water	

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

Clear ☐ Fresh ☐ Salty ☐ Sulfur ☐ Black ☐

5 Minute Shut-in Bradenhead Ø Intermediate N/A

REMARKS:

Blew from 1" valve. BH blew to a whisper in 2 seconds.

By Witness _____

(Position)

API 30-045-11587
Bradenhead



Gas Analysis Certificate

OIL CONS. DIV DIST. 3

GPA Standard 2261-13

Acquisition Method Name au_report_150_C6+
Last calibration date 7/10/2015 10:21:38 AM

DEC 18 2015

Client:	BP	Project #:	03143-0880
Site Name:	GCU 208	Meter ID:	3004511589 (BHD)
Sampled by:	Daniel F.	Date Sampled	06-25-15
Analyzed by:	Logan Richter	Date Received:	07-13-15
Sample Pressure:	97 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	0.012	0.003	0.001
Oxygen	0.006	0.010	0.001
Nitrogen	0.498	0.777	0.055
Carbon Dioxide	0.000	0.000	0.000
Methane	90.995	81.400	15.426
Ethane	5.347	8.965	1.430
Propane	2.023	4.975	0.557
i-Butane	0.448	1.453	0.147
n-Butane	0.438	1.419	0.138
i-Pentane	0.106	0.428	0.039
n-Pentane	0.072	0.289	0.026
C6+	0.055	0.280	0.024
	100.000	100.000	17.843

Calculations at Pressure Base 14.696

Compressibility (Z) (Dry Gas)	0.99747	C2+	2.361
Density (G) (Dry Gas)	0.61921	C3+	0.931
Component MW Total	17.93	C5+	0.089
Heating Value (Dry Ideal) Total BTU	1103.38	Heating Value (Sat Ideal) Total BTU	1084.13
Heating Value (Dry Real) Total BTU	1106.18	Heating Value (Sat Real) Total BTU	1086.78

RJR

10/20/2015



API 30-045-11589
Casing
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 208	Meter ID:	3004511589 (CSG)
Sampled by:	Daniel F.	Date Sampled:	06-25-15
Analyzed by:	Logan Richter	Date Received:	07-13-15
Sample Pressure:	39 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	0.025	0.004	0.003
Oxygen	0.008	0.011	0.001
Nitrogen	0.666	0.807	0.073
Carbon Dioxide	0.751	1.430	0.128
Methane	73.129	50.799	12.422
Ethane	13.097	17.052	3.509
Propane	7.254	13.850	2.002
i-Butane	0.735	1.850	0.241
n-Butane	1.747	4.397	0.552
i-Pentane	0.303	0.947	0.111
n-Pentane	0.287	0.898	0.104
C6+	1.999	7.956	0.874
	100.000	100.000	20.021

Calculations at Pressure Base 14.696

Compressibility (Z) (Dry Gas)	0.99549	C2+	7.394
Density (G) (Dry Gas)	0.79828	C3+	3.885
Component MW Total	23.09	C5+	1.090
Heating Value (Dry Ideal) Total BTU	1359.97	Heating Value (Sat Ideal) Total BTU	1336.24
Heating Value (Dry Real) Total BTU	1366.13	Heating Value (Sat Real) Total BTU	1342.08

RJR

10/20/2015

API 30-045-11589

GCU 208

Reservoir / Permanent

TOC: '0

Surface Casing Data

Hole Size: 12.25"
8.625", 24#, J-55 @ 345'

Sqz hole @1490'

TOC: '0

Gallup Perforations

5531-5555 @ 2spf

Dakota Perforations

5989-6136 @ 4spf

Production Casing Data

Hole Size: 12.25"
4.5", 10.5#, J-55 @ 6165'PBTD 6,155'
TD 6,165'

Equipment / Temporary

W1). Tubing, Tubing, 2 3/8", 4.7", J-55, External-Ups
 W2). PUP JOINT, Tubing, 2 3/8", 4.7", J-55, External-Ups
 W3). Tubing, Tubing, 2 3/8", 4.7", J-55, External-Ups
 W4). 1.780 F PROFILE NIPPLE
 W5). Perforated PUP Joint Tubing, Tubing, 2 3/8", 4.7", J-55, External-Ups
 W6). Tubing, Tubing, 2 3/8", 4.7", J-55, External-Ups
 W7). 2 3/8" TUBING BULL PLUG
 W8). 0
 W9). 0
 W10). 0

T1). Polished Rod
 T2). Pony Rod
 T3). Pony Rod
 T4). 3/4" x 25' non guided sucker rods
 T5). 1 1/2" Sinker Bars
 T6). 2 x 1 1/4 x 12 x 14 x 18 RHAC
 T7). 0
 T8). 0
 T9). 0
 T10). 0
 T11). 0

DV Tool @4322'

OIL CONS. DIV DIST. 3

DEC 18 2015

Current Wellbore



No Well Left Behind!

WELL GCU 208 V.05
 COUNTY SAN JUAN
 STATE NEW MEXICO Lat: 0N
 FIELD Long: 0W

API No. 3004511589
 RKB ELEVATION 5,628.0
 GL ELEVATION 5,616.0
 RKB-GL 12.0
 Location SEC. 15 T28N R12W
 Unit H - Sec 15 - T28N - R12W

DIRECTIONAL DATA

MAX ANGLE 1,000 THRU N/A
 KOP N/A Vertical

PRODUCTION DETAIL

	TUBING	CASING
SIZE (OD)	Mixed	4 1/2
WEIGHT	4.70	10.50
GRADE	J-55	J-55
I.D.	1.995	4.052
DRIFT	1.901	3.927
COLLAPSE	8,100	4,010
BURST	0	0
YIELD	7,700	4,790
THREAD	0	ST+C
DEPTH	6,102	6,164.99
CAPACITY	0.00387	0.0159
# JOINTS	169	194

OTHER WELLBORE EQUIPMENT

#	O. D. IN	I. D. IN	LENGTH FT	DEPTH FT	DESCRIPTION
T1	1.500	-	26.0	26.0	Polished Rod
T2	0.750	-	4.0	30.0	Pony Rod
T3	0.750	-	8.0	38.0	Pony Rod
T4	0.750	-	5,925.0	5,963.0	3/4" x 25' non guided sucker rod
T5	1.500	-	100.0	6,063.0	1 1/2" Sinker Bars
T6	2.000	-	18.0	6,081.0	2 x 1 1/4 x 12 x 14 x 18 RHAC
T7	-	-	-	-	-
T8	-	-	-	-	-
T9	-	-	-	-	-
T10	-	-	-	-	-
T11	-	-	-	-	-
T12	-	-	-	-	-
T13	-	-	-	-	-
T14	-	-	-	-	-
T15	-	-	-	-	-
T16	-	-	-	-	-
T17	-	-	-	-	-
T18	-	-	-	-	-
T19	-	-	-	-	-
T20	-	-	-	-	-

PRODUCTION TUBING ASSEMBLY DETAIL

#	O. D. IN	I. D. IN	LENGTH FT	DEPTH FT	DESCRIPTION
W1	2.375	1.995	32.5	12.0	Tubing, Tubing, 2 3/8", 4.7", J-55
W2	2.375	1.995	10.0	44.5	PUP JOINT, Tubing, 2 3/8", 4.7", J-55
W3	2.375	1.995	6,008.1	54.5	Tubing, Tubing, 2 3/8", 4.7", J-55
W4	-	1.780	0.9	6,062.5	1.780 F PROFILE NIPPLE
W5	2.375	1.995	6.0	6,063.5	Perforated PUP Joint Tubing, T
W6	2.375	1.995	32.5	6,069.5	Tubing, Tubing, 2 3/8", 4.7", J-55
W7	2.375	1.995	0.4	6,101.9	2 3/8" TUBING BULL PLUG
W8	-	-	-	-	-
W9	-	-	-	-	-
W10	-	-	-	-	-
W11	-	-	-	-	-
W12	-	-	-	-	-
W13	-	-	-	-	-
W14	-	-	-	-	-
W15	-	-	-	-	-

CASING DETAIL

#	BIT	SIZE	WGHT	GRADE	DEPTH
COND	N/A	N/A	N/A	N/A	N/A
A	12 1/4	8 5/8	24.0	J-55	344
B	12 1/4	4 1/2	10.5	J-55	6,165
C					
D					
E					
F					
G					
H					
I					

RESERVOIR DATA

BOTTOM HOLE PRESSURE	
HIGHEST ANTICIPATED PRESSURE	
MAXIMUM ALLOWABLE SURFACE PRESS	
BOTTOM HOLE TEMPERATURE	
by: Engineer	