



NEW MEXICO ENERGY, MINERALS
AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE
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OIL CONS. DIV DIST. 3

JAN 28 2016

BRADENHEAD TEST REPORT

(Submit 2 copies to above address)

Date of Test 2/6/15 Operator BP America Production Company API # 3004506823

Property Name GCU 146-DK Location: Unit 1 Section 6 Township 27 Range 12
(Well Name and Number)

Pressure (Shut-in or ~~Producing~~) Tubing 140 Intermediate - Casing 160 Bradenhead 37

OPEN BRADENHEAD AND INTERMEDIATE TO ATMOSPHERE INDIVIDUALLY FOR 15 MINUTES EACH

Time	Bradenhead			Intermediate		Bradenhead Intermediate Flowed Flowed	
	BH Blowdown	Casing Monitor	Intermediate Monitor	Intermediate Blowdown	Casing Monitor		
5 minutes	0	160				Steady Flow	
10 minutes	0	160				Surges	
15 minutes	0	160				Down to Nothing	☒
20 minutes						No Flow	
25 minutes						Gas	
30 minutes						Gas and Water	
5 minute SI	0	160				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 had a puff down to nothing
Not enough pressure build up to purge & sample BH

By [Signature] Witness _____

(Position)



API 30-045-06823
Cading
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 146	Meter ID:	3004506823 (CSG)
Sampled by:	Daniel F.	Date Sampled:	07-07-15
Analyzed by:	Logan Richter	Date Received:	07-13-15
Sample Pressure:	160 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	0.059	0.012	0.006
Oxygen	0.009	0.015	0.001
Nitrogen	0.614	0.868	0.068
Carbon Dioxide	0.906	2.012	0.155
Methane	84.908	68.749	14.403
Ethane	7.817	11.863	2.092
Propane	2.907	6.470	0.801
i-Butane	0.470	1.378	0.154
n-Butane	0.854	2.506	0.269
i-Pentane	0.332	1.210	0.122
n-Pentane	0.297	1.082	0.108
C6+	0.827	3.836	0.361
	100.000	100.000	18.539

Calculations at Pressure Base 14.696

Compressibility (Z) (Dry Gas)	0.99686	C2+	3.907
Density (G) (Dry Gas)	0.68446	C3+	1.815
Component MW Total	19.81	C5+	0.590
Heating Value (Dry Ideal) Total BTU	1179.83	Heating Value (Sat Ideal) Total BTU	1159.24
Heating Value (Dry Real) Total BTU	1183.54	Heating Value (Sat Real) Total BTU	1162.76

RGR

10/20/2015

API 30-045-00823

OIL CONS. DIV DIST. 3

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GALLEGOS CANYON UNIT 146 - DK

Reservoir / Permanent

Equipment / Temporary

Surface Casing Data

DRL: 7" @ 372'
 CSG: 8-5/8" 24# J55 @ 372'
 CMT: 230 sx; Circ to surface
 PT: 1200#, OK

TOC: Surface (circ.)

DV tool @ 3502'

Dakota Completion

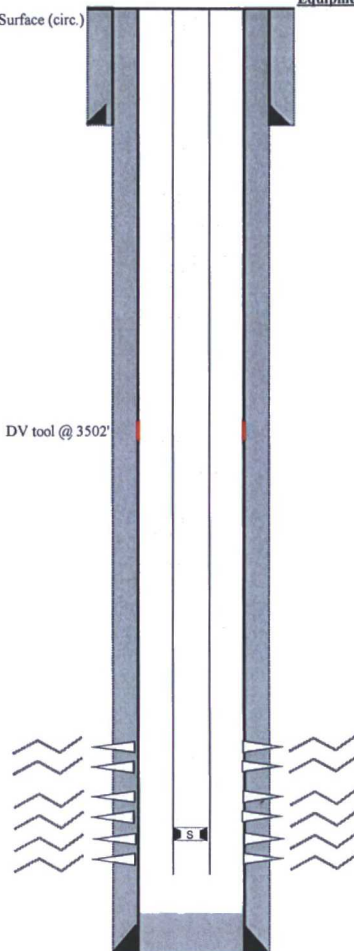
PERF: DK 4 spf f/ 5872-76' and 2 spf f/ 5885-96'
 FRAC: DK w/ 44,000 gals wtr and 40,000# snd
 PERF: DK 4 spf f/ 5828-44'
 FRAC: DK w/ 22,000 gals wtr and 19,000# snd

Production Casing Data

DRL: 7-7/8" @ 5970'
 CSG: 4-1/2" 10.5# J55 @ 5970', DV tool @ 3502'
 CMT: 1st stage 700 sx
 2nd stage 800 sx, Circ to surface
 PT: 3000#, OK

Well History

10/9/63 - spudded well
 10/19/63 - TD well @ 5970'
 10/28/63 - Perf DK 4 spf f/ 5872-76'; 2 spf f/ 5885-96'
 10/28/63 - Frac DK w/ 44,000 gals wtr and 40,000# 20/40 mesh snd
 10/28/63 - Perf Graneros 4 spf f/ 5828-44'
 10/28/63 - Frac Graneros w/ 22,000 gals wtr and 15,000# 20/40 mesh and 4000# 10/20 mesh snd
 10/30/63 - Landed 185 jts 2-3/8" 4.7# J55 eue 8rd + S-Nipple + 1 jt w/ Sawtooth on bot @ 5837'
 6/7/83 - Landed thg @ 5900.14'



PBTD 5,931'
 TD 5,970'

Current Wellbore

WELL	GCU 146	V.05
COUNTY	SAN JUAN	
STATE	NEW MEXICO	Lat: 36.60143N
FIELD		Long: 108.14719W
API No.	300450682300	
RKB ELEVATION		5,697.0
GL ELEVATION		5,685.0
RKB-GL		12.0
Location	SEC 006	T 027N R 012W
Location	1615' FSL 925' FEL	

Formation Tops

Pictured Cliff	1265'
Lewis	1407'
Chacra	1740'
Cliff House	2130'
Menefee	2208'
Pictured Cliff	2778'
Mancos	4025'
Gallup	4820'
Greenhorn	5699'
Graneros	5764'
Two Wells	5820'
Cubero	5880'

Log Detail

10/18/63 - SP/Res f/ 375-5981'
 10/18/63 - GR/DT f/ 4800-5977'

Tubing Detail

2-3/8" Saw Tooth w/ 1 jt (31.87')
 2-3/8" S-Nipple (1.65')
 202 jts 2-3/8" 4.7# J55 & N80 (5857.62')
 Landed @ 5900.14'