



NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE
1000 RIO BRAZOS ROAD
AZTEC NM 87410

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[http://emrnr.state.nm.us/ocd/District III/3distric.htm](http://emrnr.state.nm.us/ocd/District%20III/3distric.htm)

OIL CONS. DIV DIST. 3

JAN 28 2016

BRADENHEAD TEST REPORT

(submit 1 copy to above address)

Date of Test 12/1/15 Operator BP API #30-0 4511739

Property Name BLU Well No. 240 Location: Unit K Section 24 Township 28 Range 13

Well Status(Shut-In or Producing) Initial PSI: Tubing 54 Intermediate - Casing - Bradenhead 53

OPEN BRADENHEAD AND INTERMEDIATE TO ATMOSPHERE INDIVIDUALLY FOR 15 MINUTES EACH

Testing	PRESSURE				
	Bradenhead	INTERM			
	BH	Int	Csg	Int	Csg
TIME					
5 min	0		54		
10 min	0		54		
15 min	0		54		
20 min					
25 min					
30 min					

FLOW CHARACTERISTICS	
BRADENHEAD	INTERMEDIATE
Steady Flow	
Surges	
Down to Nothing	✓
Nothing	
Gas	
Gas & Water	
Water	

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

CLEAR _____ FRESH _____ SALTY _____ SULFUR _____ BLACK _____

5 MINUTE SHUT-IN PRESSURE BRADENHEAD 0 INTERMEDIATE _____

REMARKS:

Blew from 1" valve. BH had a puff down to nothing.
Slim hole well. Used tubing in place of casing

By [Signature]

Witness _____

(Position)

E-mail address _____



API 30-045-11739
Casing
Gas Analysis Certificate

GPA Standard 2261-13

Acquisition Method Name au_report_150_C6+
Last calibration date 11/17/2015 7:56:54 PM

Client:	BP	Project #:	03143-0880
Site Name:	GCU 240	Meter ID:	3004511739(CSG)
Sampled by:	D. Fuller	Date Sampled:	12-16-15
Analyzed by:	Logan Richter	Date Received:	12-17-15
Sample Pressure:	72 psig	Date Analyzed:	12-17-15
Sample Temperature:	°F	Analysis Time:	Standard

Component Results (14.696)

Name	Qty (Norm) [Mol %]	Wt Percent (%)	GPM
Helium	0.000	0.000	0.000
Oxygen	0.042	0.066	0.004
Nitrogen	0.652	0.900	0.072
Carbon Dioxide	0.755	1.637	0.129
Methane	83.221	65.785	14.119
Ethane	8.341	12.359	2.232
Propane	3.719	8.081	1.025
i-Butane	0.552	1.581	0.181
n-Butane	1.175	3.366	0.371
i-Pentane	0.407	1.448	0.149
n-Pentane	0.376	1.335	0.136
C6+	0.760	3.441	0.332
	100.000	100.000	18.750

Calculations at Pressure Base 14.696

Compressibility (Z) (Dry Gas)	0.99668	C2+	4.427
Density (G) (Dry Gas)	0.70104	C3+	2.194
Component MW Total	20.29	C5+	0.617
Heating Value (Dry Ideal) Total BTU	1208.35	Heating Value (Sat Ideal) Total BTU	1187.26
Heating Value (Dry Real) Total BTU	1212.37	Heating Value (Sat Real) Total BTU	1191.08

API 30-045-11739
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:	GCU 240	Meter ID:	3004511739 (BHD)
Sampled by:	Daniel F.	Date Sampled	08-20-15
Analyzed by:	Logan Richter	Date Received:	08-27-15
Sample Pressure:	55 psig	Date Analyzed:	09-01-15
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	0.011	0.020	0.001
Nitrogen	0.894	1.426	0.098
Carbon Dioxide	0.000	0.000	0.000
Methane	93.484	85.398	15.845
Ethane	3.084	5.281	0.825
Propane	1.157	2.906	0.319
i-Butane	0.512	1.696	0.168
n-Butane	0.417	1.380	0.131
i-Pentane	0.188	0.774	0.069
n-Pentane	0.124	0.508	0.045
C6+	0.116	0.608	0.051
	100.000	100.000	17.553

Calculations at Pressure Base 14.696

Compressibility (Z) (Dry Gas)	0.99762	C2+	1.607
Density (G) (Dry Gas)	0.60640	C3+	0.782
Component MW Total	17.56	C5+	0.164
Heating Value (Dry Ideal) Total BTU	1076.61	Heating Value (Sat Ideal) Total BTU	1057.82
Heating Value (Dry Real) Total BTU	1079.18	Heating Value (Sat Real) Total BTU	1060.26

BP

9/10/2015

API 30-045-11739

OIL CONS. DIV DIST. 3

JAN 28 2016

GCU 240

Dakota

API # 30-045-1173900

Sec. 24, T28N, R13W

1470' FSL x 1770' FWL

San Juan County, New Mexico

GL: 5762'

KB: 5775'

History

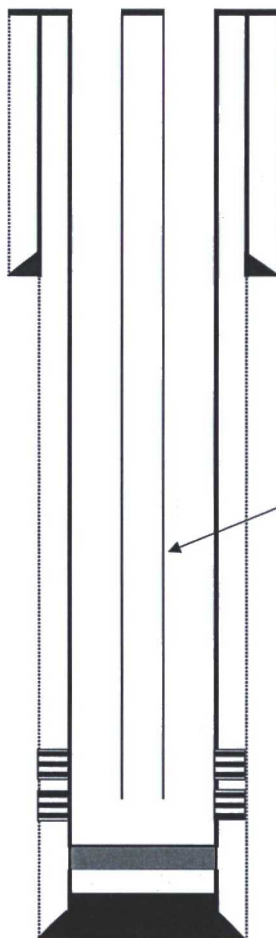
Spud date 05/11/1966

Completed on 06/07/1966

Sand cleanout & reland tubing 8/9/1985

10/4/2008: Test csg to 675 psi. Good. Cleanout to PBTD. Land tbg at 6108', stop at 6080'

8/22/2014: Swab. Recovered 53 bbls. FL @ 5700' "Grime" on swab cups



12-1/4" Hole
8-5/8", 24#, @ 349'
Cmt w/ 215 sks Class A, 2% CaCl2

2-3/8" 8RD, 4.7# tubing, EOT @ 6108.44'

Dakota Perforations

6053-6068' @ 4SPF:

Fracd w/ 27,720 gal H2O, 0.8% KCL, 2-1/2 lbs. FR-2/1000gal.
20,000 lb 20-40 & 10,000 lb 10-20

6107-6127' @ 4SPF:

Fracd w/ 500 gal acid & 34,440 gal H2O, 0.8% KCL, 2-1/2 lbs. FR-2/1000gal.
30,000 lb 20-40 & 10,000 lb 10-20

7-7/8" Hole

4-1/2", 10.5# @ 6190'

Cmt: 1st stage w/ 500 sks Class C, 6% gel
2 lb tuff plug/sk, tailed w/ 100 sks neat cmt
Cmt: 2nd stage w/ 550 sks Class C, 6% gel
2 lb tuff plug/sk, tailed w/ 50 sks neat cmt
Cmt: 3rd stage w/ 400 sks Class C, 6% gel
2 lb tuff plug/sk, tailed w/ 50 sks neat cmt

Formation Tops

Pictured Cliffs	1448
Lewis Shale	1603
Mesaverde	3025
Mancos	4225
Gallup	5097
Base Gallup	5700
Greenhorn	5919
Greneros Shale	5982
Greneros Dakota	6040
Main Dakota	6103