



NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE
1000 RIO BRAZOS ROAD
AZTEC NM 87410
(505) 334-6178 FAX: (505) 334-6170
[http://emnr.state.nm.us/ocd/District III/district.htm](http://emnr.state.nm.us/ocd/District%20III/district.htm)

BRADENHEAD TEST REPORT

(submit 1 copy to above address)

Date of Test 9-28-14 Operator Great Western Drilling API # 30-045-27423

Property Name Pbco State Com Well No. 4 Location: Unit L Section 36 Township 31 Range 11

Well Status (Shut-In or Producing) Initial PSI: Tubing 125 Intermediate _____ Casing 250 Bradenhead 160

OPEN BRADENHEAD AND INTERMEDIATE TO ATMOSPHERE INDIVIDUALLY FOR 15 MINUTES EACH

Testing TIME	PRESSURE				
	Bradenhead			INTERM	
	BH	Int	Csg	Int	Csg
5 min	0	-	250		
10 min	0	-	250		
15 min	0	-	250		
20 min					
25 min					
30 min					

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

OIL CONS. DIV DIST. 3
OCT 21 2014

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: 50 sec slow down

took gas samples

By Collin Keller

Witness Paul Waite

Switcher
(Position)

E-mail address _____



2030 Afton Place
Farmington, NM 87401
(505) 325-6622

Analysis No: GW140016
Cust No: 33050-10150

Well/Lease Information

Customer Name: GREAT WESTERN DRILLING
Well Name: PUBCO STATE COM 4 WELL HEAD
County/State: SAN JUAN
Location:
Field:
Formation: FRUITLAND COAL
Cust. Stn. No.:

Source: WELL HEAD
Pressure: 128 PSIG
Sample Temp: 73 DEG. F
Well Flowing: Y
Date Sampled: 09/04/2014
Sampled By: CULLAN KELLER
Foreman/Engr.:

OIL CONS. DIV DIST. 3
OCT 21 2014

Remarks:

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.426	0.0470	0.00	0.0041
CO2	0.325	0.0560	0.00	0.0049
Methane	92.735	15.7550	936.62	0.5137
Ethane	3.921	1.0510	69.39	0.0407
Propane	1.622	0.4480	40.81	0.0247
Iso-Butane	0.326	0.1070	10.60	0.0065
N-Butane	0.292	0.0920	9.53	0.0059
I-Pentane	0.108	0.0400	4.32	0.0027
N-Pentane	0.065	0.0240	2.61	0.0016
Hexane Plus	0.180	0.0800	9.49	0.0060
Total	100.000	17.7000	1083.37	0.6108

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0024
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1088.5
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1069.6
REAL SPECIFIC GRAVITY: 0.612

GPM, BTU, and SPG calculations as shown above are based on current GPA factors.

DRY BTU @ 14.650: 1082.6
DRY BTU @ 14.696: 1086.0
DRY BTU @ 14.730: 1088.5
DRY BTU @ 15.025: 1110.3

CYLINDER #: 4135
CYLINDER PRESSURE: 128 PSIG
DATE RUN: 9/5/14 8:01 AM
ANALYSIS RUN BY: PATRICIA KING



2030 Afton Place
 Farmington, NM 87401
 (505) 325-6622

Analysis No: GW140015
 Cust No: 33050-10145

Well/Lease Information

Customer Name:	GREAT WESTERN DRILLING	Source:	BRADENHEAD
Well Name:	PUBCO STATE COM 4 BHD	Pressure:	14 PSIG
County/State:	SAN JUAN	Sample Temp:	73 DEG. F
Location:		Well Flowing:	Y
Field:		Date Sampled:	09/04/2014
Formation:	FRUITLAND COAL	Sampled By:	CULLAN KELLER
Cust. Stn. No.:		Foreman/Engr.:	

Remarks:

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.607	0.0670	0.00	0.0059
CO2	0.068	0.0120	0.00	0.0010
Methane	93.504	15.8860	944.39	0.5179
Ethane	3.608	0.9670	63.85	0.0375
Propane	1.420	0.3920	35.73	0.0216
Iso-Butane	0.297	0.0970	9.66	0.0060
N-Butane	0.233	0.0740	7.60	0.0047
I-Pentane	0.088	0.0320	3.52	0.0022
N-Pentane	0.047	0.0170	1.88	0.0012
Hexane Plus	0.128	0.0570	6.75	0.0042
Total	100.000	17.6010	1073.38	0.6021

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0024
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1078.5
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1059.7
 REAL SPECIFIC GRAVITY: 0.6033

GPM, BTU, and SPG calculations as shown above are based on current GPA factors.

DRY BTU @ 14.650: 1072.6
 DRY BTU @ 14.696: 1076.0
 DRY BTU @ 14.730: 1078.5
 DRY BTU @ 15.025: 1100.1

CYLINDER #: 6125
 CYLINDER PRESSURE: 10 PSIG
 DATE RUN: 9/5/14 8:00 AM
 ANALYSIS RUN BY: PATRICIA KING