



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 # 30-045-34532

Property Name Newberry Fed Well No. 1-E Location: Unit E Section 17 Township 31 Range 12

Well Status (Shut-In or Producing) Initial PSI: Tubing 205 Intermediate Casing 275 Bradenhead 390

OPEN BRADENHEAD AND INTERMEDIATE TO ATMOSPHERE INDIVIDUALLY FOR 15 MINUTES EACH

Testing	PRESSURE			FLOW CHARACTERISTICS		
	BH	Bradenhead Int	Csg	Bradenhead Int	INTERMEDIATE Csg	OIL CONS. DIV DIST. 3
TIME						
5 min	55	-	275			Steady Flow <u>X</u> OCT 21 2014
10 min	0	-	275			Surges <u> </u>
15 min	0	-	275			Down to Nothing <u> </u>
20 min	0	-	270			Nothing <u> </u>
25 min	0	-	270			Gas <u>X</u>
30 min	0		270			Gas & Water <u> </u>
						Water <u> </u>

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

CLEAR FRESH SALTY SULFUR BLACK

5 MINUTE SHUT-IN PRESSURE

BRADENHEAD 3 INTERMEDIATE

REMARKS:

Down to steady flow at 15 mins, steady flow after that.

Took gas samples

By Cellan Keller

Witness Paul Walke

Switzer
(Position)

E-mail address



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

Analysis No: GW140020
Cust No: 33050-10170

Well/Lease Information

Customer Name: GREAT WESTERN DRILLING
Well Name: NEWBERRY FED #1E; WHD
County/State: SAN JUAN NM
Location:
Field:
Formation: BASIN DK
Cust. Stn. No.: 88643

Source: WELLHEAD
Pressure: 185 PSIG
Sample Temp: 87 DEG. F
Well Flowing: Y
Date Sampled: 09/05/2014
Sampled By: CULLAN KELLER
Foreman/Engr.:

OIL CONS. DIV DIST. 3

OCT 21 2014

Remarks:

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.312	0.0340	0.00	0.0030
CO2	2.125	0.3640	0.00	0.0323
Methane	80.273	13.6530	810.76	0.4446
Ethane	9.696	2.6010	171.59	0.1007
Propane	4.188	1.1580	105.37	0.0638
Iso-Butane	0.763	0.2500	24.81	0.0153
N-Butane	1.230	0.3890	40.13	0.0247
I-Pentane	0.451	0.1650	18.04	0.0112
N-Pentane	0.327	0.1190	13.11	0.0081
Hexane Plus	0.635	0.2840	33.47	0.0210
Total	100.000	19.0170	1217.28	0.7248

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0035
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1224.4
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1203.1
REAL SPECIFIC GRAVITY: 0.727

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

DRY BTU @ 14.650: 1217.8
DRY BTU @ 14.696: 1221.6
DRY BTU @ 14.730: 1224.4
DRY BTU @ 15.025: 1248.9

CYLINDER #: 4123
CYLINDER PRESSURE: 182 PSIG
DATE RUN: 9/9/14 12:49 PM
ANALYSIS RUN BY: AMANDA ARMENTA



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

Analysis No: GW140019
Cust No: 33050-10165

Well/Lease Information

Customer Name: GREAT WESTERN DRILLING
Well Name: NEWBERRY FED #1E; BHD
County/State: SAN JUAN NM
Location:
Field:
Formation: BASIN DK
Cust. Stn. No.: 88643

Source: BRADENHEAD
Pressure: 160 PSIG
Sample Temp: 87 DEG. F
Well Flowing: Y
Date Sampled: 09/05/2014
Sampled By: CULLAN KELLER
Foreman/Engr.:

Remarks:

Analysis

Component:	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.237	0.0260	0.00	0.0023
CO2	0.027	0.0050	0.00	0.0004
Methane	64.991	11.0820	656.41	0.3600
Ethane	7.609	2.0470	134.66	0.0790
Propane	15.636	4.3330	393.42	0.2381
Iso-Butane	4.854	1.5980	157.85	0.0974
N-Butane	5.400	1.7120	176.16	0.1084
I-Pentane	0.830	0.3050	33.21	0.0207
N-Pentane	0.380	0.1390	15.23	0.0095
Hexane Plus	0.036	0.0160	1.90	0.0012
Total	100.000	21.2630	1568.83	0.9169

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0061
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1582.0
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1554.5
REAL SPECIFIC GRAVITY: 0.922

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

DRY BTU @ 14.650: 1573.4
DRY BTU @ 14.696: 1578.3
DRY BTU @ 14.730: 1582.0
DRY BTU @ 15.025: 1613.7

CYLINDER #: 6224
CYLINDER PRESSURE: 160 PSIG
DATE RUN: 9/9/14 12:46 PM
ANALYSIS RUN BY: JENNIFER DEAN