



NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE
1000 RIO BRAZOS ROAD
AZTEC NM 87410
(505) 334-8178 FAX: (505) 334-8170
[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 Daily API # 30-045-10689

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

Well Status (Shut-In or Producing) Initial PSI: Tubing 212 Intermediate Casing 405 Bradenhead 105

OPEN BRADENHEAD AND INTERMEDIATE TO ATMOSPHERE INDIVIDUALLY FOR 15 MINUTES EACH

Testing	PRESSURE			INTERM	
	BH	Int	Csg	Int	Csg
TIME					
5 min	0	-	405		
10 min	0	-	405		
15 min	0	-	405		
20 min					
25 min					
30 min					

FLOW CHARACTERISTICS		OIL CONS. DIV DIST. 3
BRADENHEAD	INTERMEDIATE	
Steady Flow <u>X</u>		OCT 21 2014
Surges <u> </u>		
Down to Nothing <u> </u>		
Nothing <u> </u>		
Gas <u>X</u>		
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 0 INTERMEDIATE

REMARKS:

2:45 to 3:15 to 3:45, blow continued through out test

Took gas samples

By Cullan Keller

Witness Paul Walker

Switzer
(Position)

E-mail address



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

Analysis No: GW140018
Cust No: 33050-10160

Well/Lease Information

Customer Name: GREAT WESTERN DRILLING
Well Name: NEWBERRY FED #1; WHD
County/State: SAN JUAN NM
Location:
Field:
Formation: BASIN DK
Cust. Stn. No.: 72873

Source: WELLHEAD
Pressure: 190 PSIG
Sample Temp: 83 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	0.383	0.0420	0.00	0.0037
CO2	1.479	0.2530	0.00	0.0225
Methane	82.156	13.9700	829.78	0.4551
Ethane	9.381	2.5160	166.01	0.0974
Propane	3.883	1.0730	97.70	0.0591
Iso-Butane	0.535	0.1760	17.40	0.0107
N-Butane	1.014	0.3210	33.08	0.0203
I-Pentane	0.311	0.1140	12.44	0.0077
N-Pentane	0.272	0.0990	10.90	0.0068
Hexane Plus	0.586	0.2620	30.89	0.0194
Total	100.000	18.8260	1198.20	0.7028

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

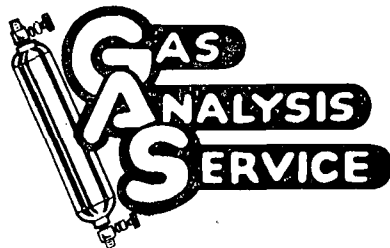
**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0033
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1205.0
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1184.0
REAL SPECIFIC GRAVITY: 0.7048

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

DRY BTU @ 14.650: 1198.5
DRY BTU @ 14.696: 1202.2
DRY BTU @ 14.730: 1205.0
DRY BTU @ 15.025: 1229.1

CYLINDER #: 7030
CYLINDER PRESSURE: 185 PSIG
DATE RUN: 9/9/14 12:43 PM
ANALYSIS RUN BY: AMANDA ARMENTA



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

Analysis No: GW140017
Cust No: 33050-10155

Well/Lease Information

Customer Name: GREAT WESTERN DRILLING
Well Name: NEWBERRY FED #1; BHD
County/State: SAN JUAN NM
Location:
Field:
Formation: BASIN DK
Cust. Stn. No.: 72873

Source: BRADENHEAD
Pressure: 90 PSIG
Sample Temp: 83 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	3.164	0.3490	0.00	0.0306
CO2	0.007	0.0010	0.00	0.0001
Methane	84.000	14.2780	848.40	0.4653
Ethane	7.739	2.0750	136.96	0.0803
Propane	3.018	0.8340	75.94	0.0459
Iso-Butane	0.591	0.1940	19.22	0.0119
N-Butane	0.716	0.2260	23.36	0.0144
I-Pentane	0.288	0.1060	11.52	0.0072
N-Pentane	0.162	0.0590	6.49	0.0040
Hexane Plus	0.315	0.1410	16.60	0.0104
Total	100.000	18.2630	1138.49	0.6701

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0029
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1144.4
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1124.5
REAL SPECIFIC GRAVITY: 0.6718

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

DRY BTU @ 14.650: 1138.2
DRY BTU @ 14.696: 1141.8
DRY BTU @ 14.730: 1144.4
DRY BTU @ 15.025: 1167.3

CYLINDER #: 6104
CYLINDER PRESSURE: 87 PSIG
DATE RUN: 9/9/14 12:42 PM
ANALYSIS RUN BY: AMANDA ARMENTA