



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 8-28-14 Operator Greath Western Drilling Co API #30-0 45-34546

Property Name Atlantic C Well No. 101 E Location: Unit P Section 6 Township 30 Range 10

Well Status(Shut-In or Producing) Initial PSI: Tubing 68 Intermediate      Casing 216 Bradenhead 545

OPEN BRADENHEAD AND INTERMEDIATE TO ATMOSPHERE INDIVIDUALLY FOR 15 MINUTES EACH

| Testing | PRESSURE |     |     | INTERM |     |
|---------|----------|-----|-----|--------|-----|
|         | BH       | Int | Csg | Int    | Csg |
| TIME    |          |     |     |        |     |
| 5 min   | 70       | -   | 216 |        |     |
| 10 min  | 0        | -   | 220 |        |     |
| 15 min  | 0        | -   | 240 |        |     |
| 20 min  | 0        | -   | 235 |        |     |
| 25 min  | 0        | -   | 232 |        |     |
| 30 min  | 0        | -   | 230 |        |     |

| FLOW CHARACTERISTICS        |                       |
|-----------------------------|-----------------------|
| BRADENHEAD                  | INTERMEDIATE          |
| Steady Flow <u>X</u>        | OIL CONS. DIV DIST. 3 |
| Surges <u>    </u>          | OCT 21 2014           |
| 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 1

INTERMEDIATE     

REMARKS:

Hard blow after 5 min

Slight blow after 11 mins

Slight blow after 15

Took gas samples

By Cellan Keller

Witness Paul Wiche

Switcher  
(Position)

E-mail address



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

Analysis No: GW140013  
Cust No: 33050-10135

### Well/Lease Information

Customer Name: GREAT WESTERN DRILLING  
Well Name: ATLANTIC C 101 E BHD  
County/State: SAN JUAN  
Location:  
Field:  
Formation: BASIN DAKOTA  
Cust. Stn. No.: 88644

Source: BRADENHEAD  
Pressure: 130 PSIG  
Sample Temp: 68 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    | 0.168   | 0.0190  | 0.00    | 0.0016       |
| CO2         | 0.005   | 0.0010  | 0.00    | 0.0001       |
| Methane     | 80.281  | 13.6560 | 810.84  | 0.4447       |
| Ethane      | 10.597  | 2.8440  | 187.54  | 0.1100       |
| Propane     | 5.203   | 1.4380  | 130.91  | 0.0792       |
| Iso-Butane  | 1.173   | 0.3850  | 38.14   | 0.0235       |
| N-Butane    | 1.273   | 0.4030  | 41.53   | 0.0255       |
| I-Pentane   | 0.582   | 0.2140  | 23.29   | 0.0145       |
| N-Pentane   | 0.431   | 0.1570  | 17.28   | 0.0107       |
| Hexane Plus | 0.287   | 0.1280  | 15.13   | 0.0095       |
| Total       | 100.000 | 19.2450 | 1264.65 | 0.7194       |

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

\*\*@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0036

BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1272.2

BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1250.1

REAL SPECIFIC GRAVITY: 0.7217

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

DRY BTU @ 14.650: 1265.3

DRY BTU @ 14.696: 1269.3

DRY BTU @ 14.730: 1272.2

DRY BTU @ 15.025: 1297.7

CYLINDER #: 6056

CYLINDER PRESSURE: 127 PSIG

DATE RUN: 9/5/14 7:55 AM

ANALYSIS RUN BY: PATRICIA KING



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

Analysis No: GW140014  
Cust No: 33050-10140

### Well/Lease Information

Customer Name: GREAT WESTERN DRILLING  
Well Name: ATLANTIC C 101 E WELL HEAD  
County/State: SAN JUAN  
Location:  
Field:  
Formation: BASIN DAKOTA  
Cust. Stn. No.: 88644

Source: WELL HEAD  
Pressure: 70 PSIG  
Sample Temp: 68 DEG. F  
Well Flowing: Y  
Date Sampled: 09/04/2014  
Sampled By: CULLAN KELLER  
Foreman/Engr.:

Remarks:

### Analysis

| Component:: | Mole%:  | **GPM:  | *BTU:   | *SP Gravity: |
|-------------|---------|---------|---------|--------------|
| Nitrogen    | 0.110   | 0.0120  | 0.00    | 0.0011       |
| CO2         | 1.792   | 0.3060  | 0.00    | 0.0272       |
| Methane     | 94.471  | 16.0480 | 954.16  | 0.5233       |
| Ethane      | 2.750   | 0.7370  | 48.67   | 0.0286       |
| Propane     | 0.448   | 0.1240  | 11.27   | 0.0068       |
| Iso-Butane  | 0.112   | 0.0370  | 3.64    | 0.0022       |
| N-Butane    | 0.084   | 0.0270  | 2.74    | 0.0017       |
| I-Pentane   | 0.053   | 0.0190  | 2.12    | 0.0013       |
| N-Pentane   | 0.023   | 0.0080  | 0.92    | 0.0006       |
| Hexane Plus | 0.157   | 0.0700  | 8.28    | 0.0052       |
| Total       | 100.000 | 17.3880 | 1031.80 | 0.5980       |

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

\*\*@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0023  
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1036.6  
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1018.6  
REAL SPECIFIC GRAVITY: 0.5991

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

DRY BTU @ 14.650: 1031.0  
DRY BTU @ 14.696: 1034.2  
DRY BTU @ 14.730: 1036.6  
DRY BTU @ 15.025: 1057.4

CYLINDER #: 5021  
CYLINDER PRESSURE: 59 PSIG  
DATE RUN: 9/5/14 7:57 AM  
ANALYSIS RUN BY: JENNIFER DEAN