



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://emnrnd.state.nm.us/ocd/District III/District.htm](http://emnrnd.state.nm.us/ocd/District%20III/District.htm)

BRADENHEAD TEST REPORT

(submit 1 copy to above address)

Date of Test 9-4-12 Operator Fou-SIA Oil Gas API # 30-045-30604

Property Name John Charles Well No 602 Location: Unit      Section 13 Township 22 Range 9W

Well Status (Shut-In or Producing) Producing Initial PSI: Tubing 64.5 Intermediate N/A Casing 74 Bradenhead 209.5

OPEN BRADENHEAD AND INTERMEDIATE TO ATMOSPHERE INDIVIDUALLY FOR 15 MINUTES EACH

| Testing | PRESSURE   |        |      | FLOW CHARACTERISTICS |              |
|---------|------------|--------|------|----------------------|--------------|
|         | Bradenhead | INTERM |      | BRADENHEAD           | INTERMEDIATE |
|         | BH         | Int    | Csg  | Int                  | Csg          |
| TIME    | Light      |        |      |                      |              |
| 5 min   | Blow       | N/A    | 71.6 |                      |              |
| 10 min  | Blow       |        | 70.1 |                      |              |
| 15 min  | Blow       |        | 68.1 |                      |              |
| 20 min  | Blow       |        | 67.4 |                      |              |
| 25 min  | Blow       |        | 67.3 |                      |              |
| 30 min  | Blow       |        | 67.2 |                      |              |
|         |            |        |      | Steady Flow          | X Light      |
|         |            |        |      | 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 21.9 INTERMEDIATE N/A

REMARKS:

Blew down to Light Blow in 17 sec than Light Blow for 30 sec

Csg and BH sample Taken

By Randy Calcote

Witness                                 

Caldor service

(Position)

E-mail address Randy.c@caldorservices.com



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

Analysis No: CH120053  
Cust No: 74000-10570

### Well/Lease Information

Customer Name: CHEVRON TEXACO  
Well Name: JOHN CHARLES #6C BHD  
County/State: SAN JUAN NM  
Location:  
Field:  
Formation:  
Cust. Stn. No.:

Source: BRADENHEAD  
Pressure: 209 PSIG  
Sample Temp: DEG. F  
Well Flowing:  
Date Sampled: 09/04/2012  
Sampled By: TONY BECENTI  
Foreman/Engr.:

Remarks:

### Analysis

| Component:: | Mole%:  | **GPM:  | *BTU:   | *SP Gravity: |
|-------------|---------|---------|---------|--------------|
| Nitrogen    | 2.474   | 0.2730  | 0.00    | 0.0239       |
| CO2         | 0.002   | 0.0000  | 0.00    | 0.0000       |
| Methane     | 84.317  | 14.3340 | 851.60  | 0.4670       |
| Ethane      | 5.963   | 1.5990  | 105.53  | 0.0619       |
| Propane     | 4.430   | 1.2240  | 111.46  | 0.0674       |
| Iso-Butane  | 1.039   | 0.3410  | 33.79   | 0.0209       |
| N-Butane    | 1.051   | 0.3320  | 34.29   | 0.0211       |
| I-Pentane   | 0.312   | 0.1140  | 12.48   | 0.0078       |
| N-Pentane   | 0.202   | 0.0730  | 8.10    | 0.0050       |
| Hexane Plus | 0.210   | 0.0940  | 11.07   | 0.0070       |
| Total       | 100.000 | 18.3840 | 1168.32 | 0.6820       |

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

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

COMPRESSIBILITY FACTOR (1/Z): 1.003  
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1174.5  
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1154.1  
REAL SPECIFIC GRAVITY: 0.6838

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

DRY BTU @ 14.650: 1168.1  
DRY BTU @ 14.696: 1171.8  
DRY BTU @ 14.730: 1174.5  
DRY BTU @ 15.025: 1198.0

CYLINDER #: 4084  
CYLINDER PRESSURE: 191 PSIG  
DATE RUN: 9/5/12 9:57 AM  
ANALYSIS RUN BY: BRANDY MEDFORD



CHEVRON TEXACO  
WELL ANALYSIS COMPARISON

Lease: JOHN CHARLES #6C BHD  
Stn. No.:  
Mtr. No.:

BRADENHEAD

09/06/2012  
74000-10570

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|            |            |            |
|------------|------------|------------|
| Smpl Date: | 09/04/2012 | 12/16/2003 |
| Test Date: | 09/05/2012 | 12/17/2003 |
| Run No:    | CH120053   | CH230013   |
| Nitrogen:  | 2.474      | 2.706      |
| CO2:       | 0.002      | 0.000      |
| Methane:   | 84.317     | 85.394     |
| Ethane:    | 5.963      | 5.940      |
| Propane:   | 4.430      | 3.660      |
| I-Butane:  | 1.039      | 0.779      |
| N-Butane:  | 1.051      | 0.970      |
| I-Pentane: | 0.312      | 0.279      |
| N-Pentane: | 0.202      | 0.168      |
| Hexane+:   | 0.210      | 0.104      |
| BTU:       | 1174.5     | 1145.8     |
| GPM:       | 18.3840    | 18.1880    |
| SPG:       | 0.6838     | 0.6682     |



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

Analysis No: CH120054  
Cust No: 74000-11395

### Well/Lease Information

Customer Name: CHEVRON TEXACO  
Well Name: JOHN CHARLES #6C CSG  
County/State: SAN JUAN NM  
Location:  
Field:  
Formation:  
Cust. Stn. No.:

Source: CASING  
Pressure: 74 PSIG  
Sample Temp: DEG. F  
Well Flowing:  
Date Sampled: 09/04/2012  
Sampled By: CALDER  
Foreman/Engr.:

Remarks:

### Analysis

| Component:: | Mole%:  | **GPM:  | *BTU:   | *SP Gravity: |
|-------------|---------|---------|---------|--------------|
| Nitrogen    | 0.863   | 0.0960  | 0.00    | 0.0083       |
| CO2         | 0.009   | 0.0020  | 0.00    | 0.0001       |
| Methane     | 65.841  | 11.2310 | 664.99  | 0.3647       |
| Ethane      | 9.848   | 2.6500  | 174.28  | 0.1022       |
| Propane     | 9.607   | 2.6630  | 241.72  | 0.1463       |
| Iso-Butane  | 3.610   | 1.1890  | 117.39  | 0.0724       |
| N-Butane    | 4.376   | 1.3880  | 142.76  | 0.0878       |
| I-Pentane   | 2.677   | 0.9850  | 107.10  | 0.0667       |
| N-Pentane   | 1.941   | 0.7080  | 77.81   | 0.0484       |
| Hexane Plus | 1.228   | 0.5510  | 64.73   | 0.0406       |
| Total       | 100.000 | 21.4630 | 1590.79 | 0.9376       |

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

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

COMPRESSIBILITY FACTOR (1/Z): 1.0064  
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1604.7  
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1576.8  
REAL SPECIFIC GRAVITY: 0.9433

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

DRY BTU @ 14.650: 1596.0  
DRY BTU @ 14.696: 1601.0  
DRY BTU @ 14.730: 1604.7  
DRY BTU @ 15.025: 1636.8

CYLINDER #: 7017  
CYLINDER PRESSURE: 65 PSIG  
DATE RUN: 9/5/12 10:00 AM  
ANALYSIS RUN BY: BRANDY MEDFORD



CHEVRON TEXACO  
WELL ANALYSIS COMPARISON

Lease: JOHN CHARLES #6C CSG  
Stn. No.:  
Mtr. No.:

CASING

09/06/2012  
74000-11395

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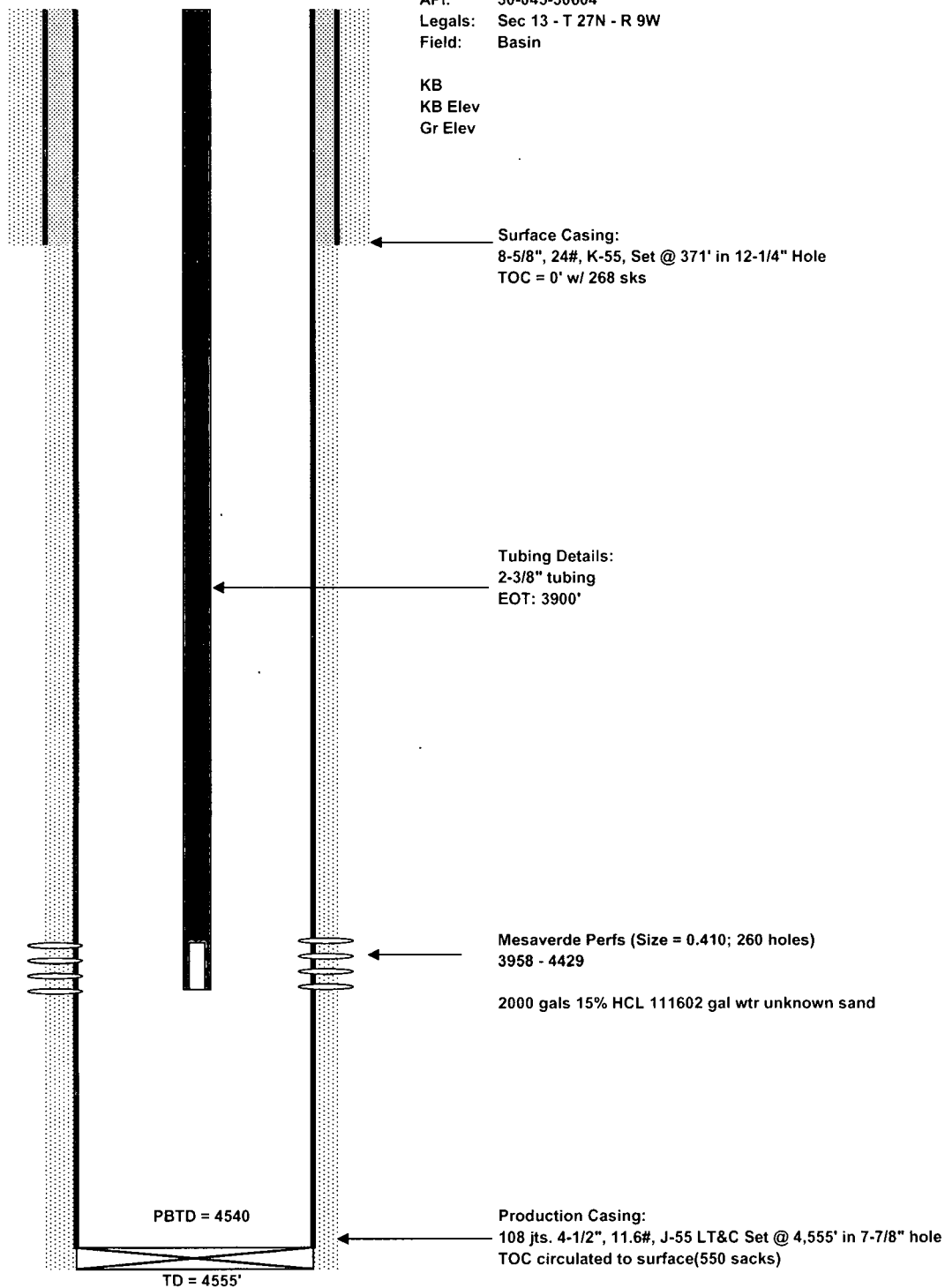
Smpl Date: 09/04/2012  
Test Date: 09/05/2012  
Run No: CH120054  
Nitrogen: 0.863  
CO2: 0.009  
Methane: 65.841  
Ethane: 9.848  
Propane: 9.607  
I-Butane: 3.610  
N-Butane: 4.376  
I-Pentane: 2.677  
N-Pentane: 1.941  
Hexane+: 1.228  
BTU: 1604.7  
GPM: 21.4630  
SPG: 0.9433



**John Charles #6C**  
**San Juan, New Mexico**  
**Current Well Schematic as of 3-30-09**

API: 30-045-30604  
Legals: Sec 13 - T 27N - R 9W  
Field: Basin

KB  
KB Elev  
Gr Elev



Prepared by: Jeannie Kohoutek  
Date: 3/30/2009