



OIL CONSERVATION DIVISION  
AZTEC DISTRICT OFFICE  
1030 RIO BRAZOS ROAD  
AZTEC NM 87410  
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[http://emrnd.state.nm.us/ocd/District III/3district.htm](http://emrnd.state.nm.us/ocd/District%20III/3district.htm)

OPEN BRADENHEAD AND INTERMEDIATE TO ATMOSPHERE INDIVIDUALLY FOR 15 MINUTES EACH

|        | PRESSURE |     |      |
|--------|----------|-----|------|
|        | BH       | Int | Csg  |
| TIME   |          |     |      |
| 5 min  | 4.7      |     | 112  |
| 10 min | 6.0      |     | 94.7 |
| 15 min | 4.8      |     | 94.9 |
| 20 min | 3.2      |     | 95.2 |
| 25 min | 1.7      |     | 95.3 |
| 30 min | 1.0      |     | 97   |

|                 | BRADENHEAD    | INTERMEDIATE |
|-----------------|---------------|--------------|
| Steady Flow     | X             |              |
| Surges          |               |              |
| Down to Nothing |               |              |
| Nothing         |               |              |
| Gas             |               |              |
| Gas & Water     | X gassy smell |              |
| Water           | X             |              |

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

CLEAR *X Start* FRESH \_\_\_\_\_ SALTY \_\_\_\_\_ SULFUR \_\_\_\_\_ BLACK \_\_\_\_\_  
*To Start*

5 MINUTE SHUT-IN PRESSURE      BRADENHEAD 27.3      INTERMEDIATE n/a

## REMARKS:

REMARKS: Below gas for 1 min then water at Sgal in 25 sec for 2 min then Sgal in 10 sec for 3 min, then no water for 2 min then water at Sgal in 35 sec <sup>at 15 min</sup> flow Sgal in 45 sec water sampler pulled for B-Mead and production / AT 50 min Sgal in 38 sec

By Randy Calcoff  
Calder service  
(Position)

Witness \_\_\_\_\_

350 gallon  
Approx Total

E-mail address Randy.c@calderservices.com

50015  
Buck  
Col

184

[illegible]



# BAKER HUGHES

## Farmington District Lab

### Water Analysis Report

Test # 2099

#### Customer/Well Information

Company: Chevron Date: 9/14/2012  
 Well Name: Prepared for:  
 Location: Submitted by: Allen Eaker  
 State: County, New Mexico Prepared by: Dave Rasmussen  
 Formation: Water Type:  
 Depth: Tank #: JohnCharles7 BradenHead

#### Background Information

Reason for Testing: \_\_\_\_\_  
 Completion type: \_\_\_\_\_  
 Well History: \_\_\_\_\_  
 Comments: \_\_\_\_\_

#### Sample Characteristics

Sample Temp: 77 (°F) Viscosity: 1 cp  
 pH: 9.3.9 Color: Clear  
 Specific Gravity: 1.002 Odor: None  
 S.G. (Corrected): 1.005 @ 60 °F Turbidity: Clear  
 Resistivity (Calc): 0.91 Ω-m Filtrates: None

#### Sample Composition

| CATIONS        | mg/l | me/l | ppm  |
|----------------|------|------|------|
| Sodium (calc.) | 1784 | 77.6 | 1780 |
| Calcium        | 104  | 5.2  | 104  |
| Magnesium      | 10   | 0.8  | 10   |
| Barium         | 0    | 0.0  | 0    |
| Potassium      | 0    | 0.0  | 0    |
| Iron           | 0.00 | 0.0  | 0.00 |

#### ANIONS

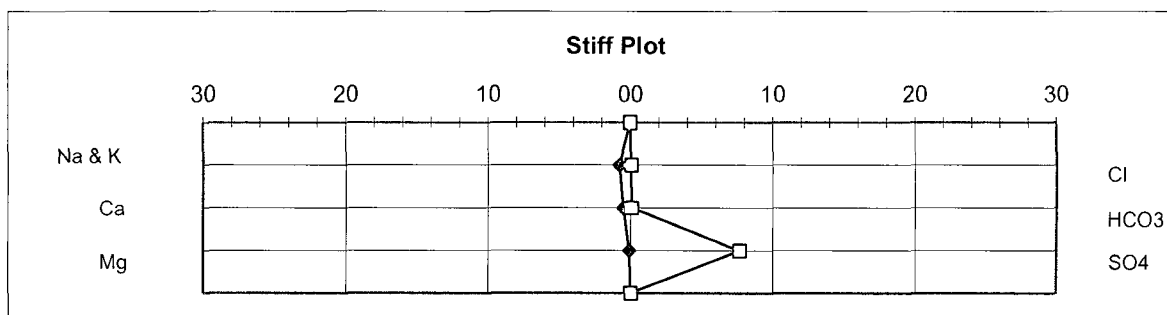
|             |      |      |      |
|-------------|------|------|------|
| Chloride    | 200  | 5.6  | 200  |
| Sulfate     | 3700 | 77.0 | 3693 |
| Hydroxide   | 0    | 0.0  | 0    |
| Carbonate   | 13   | 0.4  | 13   |
| Bicarbonate | 49   | 0.8  | 49   |

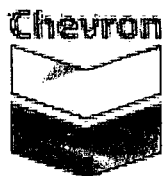
#### SUMMARY

|                               |      |     |      |
|-------------------------------|------|-----|------|
| Total Dissolved Solids(calc.) | 5847 |     | 5835 |
| Total Hardness as CaCO3       | 300  | 6.0 | 300  |

#### Scaling Tendencies

CaCO3 Factor 5087.888 Calcium Carbonate Scale Probability --> REMOTE  
 CaSO4 Factor 385762 Calcium Sulfate Scale Probability -----> REMOTE





**John Charles 7**  
**San Juan County, New Mexico**  
**Current Well Schematic as of 12-18-2007**

API: 30-045-0644500  
Legals: Sec 13 - T 27N - R 9W  
Field: Blanco MV

KB  
KB Elev  
GR Elev

Spud Date: 5/6/60  
Compl Date:

Formation Tops:  
MV 3583  
Point Lookout 4238  
Mid. Gallup 5528  
Lower Gallup 5740  
I Dakota 6373  
II Dakota 6411  
III Dakota 6500  
IV Dakota 6627

Surface Casing:  
10-3/4" 32.75# H-40 Csg Set @ 335 in 15" hole  
Cmt'd with 375 sks  
TOC = 0' (Circ cmt)

Tubing Details:  
2-3/8" tbgr, 4.7# @ 6344'

2-3/8" tbgr, 4.7# @ 4356'

**Pt. Lookout (MV) Perforations: 4 SPF**

| Perforations | Net Feet | Holes |
|--------------|----------|-------|
| 4290-4334    | 44       | 176   |
| 4340-4354    | 14       | 56    |
| 4360-4372    | 12       | 48    |
| 4375-4385    | 10       | 40    |

**Intermediate Casing:**

7" 23# N-80 & J-55  
Set @ 6677'  
1st stage w/550 sks TOC @ 2900' (temp. survey)  
2nd stage w/100 sks

Packer @ 6344' (1960)  
Module 'D'

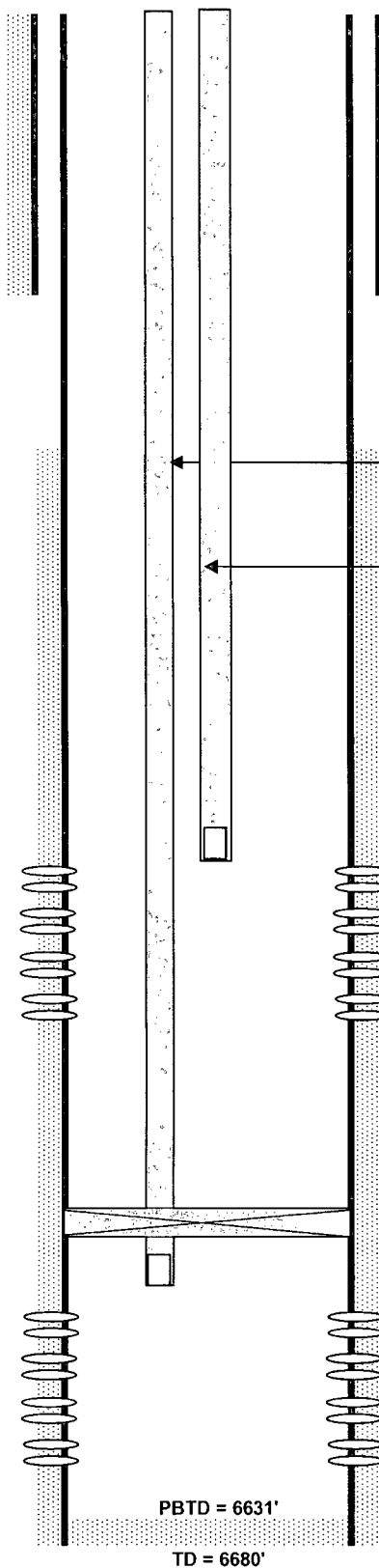
**Dakota Perforations: 4 SPF**

| Perforations | Net Feet | Holes |           |
|--------------|----------|-------|-----------|
| 6374-90      | 16       | 64    | Dakota I  |
| 6450-56      | 6        | 24    | Dakota II |
| 6464-80      | 16       | 64    | Dakota II |

6/09/60 Dakota II (6450-80') 20,000# 40-60 Sand & 27,105 gals Crude Oil  
BDP 4000-2800#, avg IR 8.2 bpm

6/11/60 Dakota I (6374-90') 20,000# 40-60 Sand & 26,100 gals Crude Oil  
BDP 3700#, avg IR 8 bpm

7-01-60 Test (3hrs) Dakota (6374-6480')  
950 mcf/d, CAOF 985 mcf/d



Prepared by: Jean Kohoutek  
Date: 1/3/2008

Revised by:  
Date:



# BAKER HUGHES

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Company: Chevron Date: 9/14/2012  
 Well Name: Prepared for:  
 Location: Submitted by: Allen Eaker  
 State: County, New Mexico Prepared by: Dave Rasmussen  
 Formation: Water Type:  
 Depth: Tank #: JohnCharles7 Production

#### Background Information

Reason for Testing: \_\_\_\_\_  
 Completion type: \_\_\_\_\_  
 Well History: \_\_\_\_\_  
 Comments: \_\_\_\_\_

#### Sample Characteristics

Sample Temp: 78 (°F) Viscosity: 1 cp  
 pH: 7.81 Color: Clear  
 Specific Gravity: 1.000 Odor: None  
 S.G. (Corrected): 1.004 @ 60 °F Turbidity: Clear  
 Resistivity (Calc): 3.02 Ω-m Filtrates: None

#### Sample Composition

| CATIONS        | mg/l | me/l | ppm  |
|----------------|------|------|------|
| Sodium (calc.) | 502  | 21.8 | 502  |
| Calcium        | 24   | 1.2  | 24   |
| Magnesium      | 19   | 1.6  | 19   |
| Barium         | 0    | 0.0  | 0    |
| Potassium      | 0    | 0.0  | 0    |
| Iron           | 0.00 | 0.0  | 0.00 |

#### ANIONS

|             |     |      |      |
|-------------|-----|------|------|
| Chloride    | 600 | 16.9 | 600  |
| Sulfate     | 0   | 0.0  | 0    |
| Hydroxide   | 0   | 0.0  | 0    |
| Carbonate   | < 1 | ---- | ---- |
| Bicarbonate | 476 | 7.8  | 476  |

#### SUMMARY

|                               |      |     |      |
|-------------------------------|------|-----|------|
| Total Dissolved Solids(calc.) | 1621 |     | 1621 |
| Total Hardness as CaCO3       | 140  | 2.8 | 140  |

#### Scaling Tendencies

CaCO3 Factor 11447.75 Calcium Carbonate Scale Probability --> REMOTE  
 CaSO4 Factor 0 Calcium Sulfate Scale Probability -----> REMOTE

