| DE   | OMB<br>Expire   | A APPROVED<br>NO. 1004-0135<br>s: July 31, 2010   |  |   |  |  |  |
|--|---|---|--|---|--|--|--|
|  | UREAU OF LAND MANA  | 0   | 5. Lease Serial No.<br>NMLC030132  | В   |  |  |  |
| BBS OCD SUNDRY<br>Do not use thi<br>abandoned wel  | is form for proposals to<br>II. Use form 3160-3 (AP   | RTS ON WELCS<br>drill or to re-enter an OB<br>D) for such proposals.  | BS 6. If Indian, Allottee  | 6. If Indian, Allottee or Tribe Name  |  |  |  |
| 2820 SUBMIT IN TRI   | PLICATE - Other instru  | ctions on reverse side.   | 7. If Unit or CA/Ag  | reement, Name and/or No   |  |  |  |
| 1. Type of Well Gas Well Oth   | ner   |   | 8. Well Name and N<br>CLOSSON B 26   |   |  |  |  |
| 2. Name of Operator<br>BREITBURN OPERATING LF  | Contact:  | JEANIE MCMILLAN<br>millan@breitburn.com   | 9. API Well No.<br>30-025-26464  | -00-S1  |  |  |  |
| 3a. Address<br>1401 MCKINNEY ST SUITE 1<br>HOUSTON, TX 77010   | 400   | 3b. Phone No. (include area code<br>Ph: 713-634-4696<br>Fx: 713-634-4697  |  | or Exploratory<br>-YATES-7RVRS  |  |  |  |
| 4. Location of Well (Footage, Sec., T.   | C., R., M., or Survey Description   | n)  | 11. County or Parish   | n, and State  |  |  |  |
| Sec 19 T22S R36E SWSE 66   | 0FSL 1880FEL 🧹  |   | LEA COUNTY   | , NM  |  |  |  |
| 12. CHECK APPH   | ROPRIATE BOX(ES) T  | O INDICATE NATURE OF  | NOTICE, REPORT, OR OTH   | ER DATA   |  |  |  |
| TYPE OF SUBMISSION   |   | TYPE O  | F ACTION   |   |  |  |  |
| □ Notice of Intent   | Acidize   | Deepen  | Production (Start/Resume)  | □ Water Shut-Off  |  |  |  |
|  | □ Alter Casing  | Fracture Treat  | □ Reclamation  | U Well Integrity  |  |  |  |
| Subsequent Report  | Casing Repair   | □ New Construction  | Recomplete   | □ Other   |  |  |  |
| Final Abandonment Notice   | Change Plans  | Plug and Abandon  | Temporarily Abandon  |   |  |  |  |
|  | Convert to Injection  | Plug Back   | ack 🛛 Water Disposal   |   |  |  |  |
| If the proposal is to deepen directional<br>Attach the Bond under which the wor<br>following completion of the involved  | ally or recomplete horizontally<br>rk will be performed or provide<br>operations. If the operation re   | e the Bond No. on file with BLM/BI/<br>esults in a multiple completion or rec   | ured and true vertical depths of all per<br>A. Required subsequent reports shall b<br>ompletion in a new interval, a Form 3  | tinent markers and zones.<br>be filed within 30 days<br>160-4 shall be filed once   |  |  |  |
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WUSB/OCD 11/28/2014

#### WATER PRODUCTION & DISPOSAL INFORMATION

In order to process your disposal request, the following information must be completed.

- 1. Name(s) of formation(s) producing water on the lease. JALMAT YATES, SEVEN RIVERS
- Amount of water produced from all formations in barrels per day.
   50 BWPD
- Attach a current water analysis of produced water from all zones showing at least the total dissolved solids, ph, and the concentrations of chlorides and sulfates. (One sample will suffice if water is commingled).
- How water is stored on lease.
   \_\_IN 500 BBL FG STORAGE TANK\_\_\_\_\_\_
- 5. How water is moved to the disposal facility.

WATER IS PUMPED VIA HP LINE THROUGH HP INJECTION LINE TO CLOSSON B FED #18 WIW\_

- 6. Identify the Disposal Facility by:
  A. Facility Operators name. \_BREITBURN OPERATING\_\_\_\_\_\_
  B. Name of facility or well name and number. \_CLOSSON B FEDERAL #018 WIW\_\_\_\_\_\_
  - C. Type of facility or well (WDW) (WIW) etc. \_\_\_\_\_WIW\_\_\_\_\_
  - D. Location by ¼ ¼ \_SW NW \_\_\_\_ Section \_\_19 \_\_\_ Township \_\_22S \_\_Range \_\_\_36E \_\_\_
- 7. Attach a copy of the State issued permit for the Disposal Facility.

Submit to this office, **620 EAST GREENE ST, CARLSBAD NM, 88220**, the above required information on a Sundry Notice 3160-5. Submit 1 original and 3 copies, within abatement period. (This form may be used as an attachment to the Sundry Notice).

#### WATER PRODUCTION & DISPOSAL INFORMATION

In order to process your disposal request, the following information must be completed.

- Name(s) of formation(s) producing water on the lease. JALMAT YATES, SEVEN RIVERS\_\_\_\_\_\_
- Amount of water produced from all formations in barrels per day.
   \_\_\_\_25 BWPD\_\_\_\_\_\_
- Attach a current water analysis of produced water from all zones showing at least the total dissolved solids, ph, and the concentrations of chlorides and sulfates. (One sample will suffice if water is commingled).
- How water is stored on lease.
   \_\_IN 300 BBL FG STORAGE TANK\_\_\_\_\_\_
- 5. How water is moved to the disposal facility.

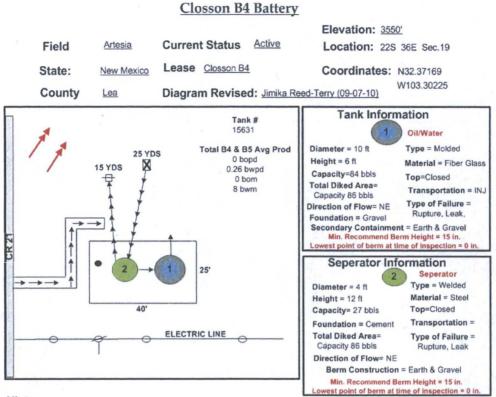
WATER IS TRANSFERRED VIA 3" POLY FLOW LINE TO CLOSSON B FED BATTER 1 FOR DISPOSAL

- 6. Identify the Disposal Facility by:
  A. Facility Operators name. \_BREITBURN OPERATING\_\_\_\_\_\_
  B. Name of facility or well name and number. \_CLOSSON B FEDERAL #018 WIW

  - C. Type of facility or well (WDW) (WIW) etc. \_\_\_\_\_WIW\_\_\_\_\_
  - D. Location by ¼ ¼ \_NE SW \_\_\_\_ Section \_\_\_30 \_\_\_ Township \_\_22S \_\_Range \_\_\_36E \_\_\_

7. Attach a copy of the State issued permit for the Disposal Facility.

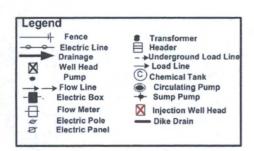
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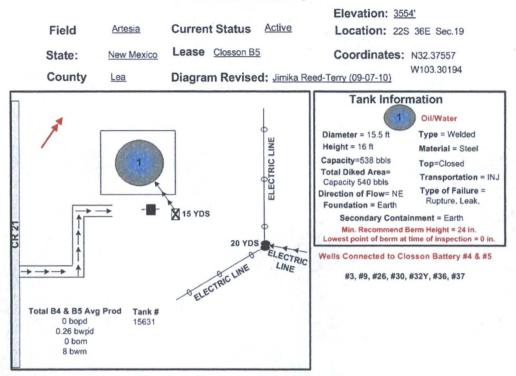


History

Wells Connected to Closson Battery #4 & #5

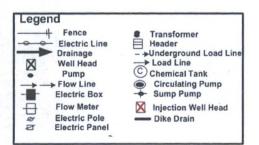
#3, #9, #26, #30, #32Y, #36, #37





**Closson B5 Battery** 

History





Catalyst Oilfield Services 11999 E Hwy 158 Gardendale, TX 79758 (432) 563-0727 Fax: (432) 224-1038

# Water Analysis Report

| Company:      | Breitburn Operating |   | Sample #:      | 29038 |  |
|---------------|---------------------|---|----------------|-------|--|
| Area:         | Permian Basin       |   | Analysis ID #: | 34158 |  |
| Lease:        | Closson B           |   |                |       |  |
| Location:     | B2 Battery          | 0 |                | -     |  |
| Sample Point: | Wellhead            |   |                |       |  |

| Sampling Date:      | 7/9/2015  | Anions                  | mg/l          | meq/l  | Cations                               | mg/l          | meq/l          |
|---------------------|-----------|-------------------------|---------------|--------|---------------------------------------|---------------|----------------|
| Analysis Date:      | 7/14/2015 | Chloride:               | 23971.9       | 676.16 | Sodium:                               | 10350.0       | 450.2          |
| Analyst:            | Catalyst  | Bicarbonate:            | 2169.2        | 35.55  | Magnesium:                            | 3101.0        | 255.1          |
| TDS (mg/l or g/m3): | 41738     | Carbonate:              |               |        | Calcium:                              | 440.4         | 21.98          |
| Density (g/cm3):    | 1.03      | Sulfate:                | 740.0         | 15.41  | Strontium:                            | 16.3          | 0.37           |
| Density (groms):    | 1.03      |                         |               |        | Barium:                               | 0.0           | 0.             |
|                     |           |                         |               |        | Potassium:                            | 302.3         | 7.73           |
| Hydrogen Sulfide:   | 504.9     |                         |               |        | Iron:                                 | 0.0           | 0.             |
|                     |           |                         |               |        | Manganese:                            | 0.000         | 0.             |
| Carbon Dioxide:     | 0         |                         |               |        |                                       |               |                |
|                     |           | pH at time of sampling: |               | 7.496  |                                       |               |                |
| Comments:           |           | pH at time of analysis: |               |        |                                       |               |                |
|                     |           | pH used in Calculation  | 1:            | 7.496  | 1                                     | 1.1.1.1.1.1.1 |                |
|                     |           | Temperature @ lab co    | nditions (F): | 75     | Conductivity (mie<br>Resistivity (ohm |               | 66300<br>.1508 |

|      |       | Values Calculated at the Given Conditions - Amounts of Scale in Ib/1000 bbl |       |        |       |                            |       |        |       |        |         |  |
|------|-------|---|-------|--------|-------|----------------------------|-------|--------|-------|--------|---------|--|
| Гетр |       |   |       |        |       | ydrite<br>aSO <sub>4</sub> |       |        |       |        |         |  |
| °F   | Index | Amount  | Index | Amount | Index | Amount                     | Index | Amount | Index | Amount |         |  |
| 80   | 1.18  | 172.52  | -1.18 | 0.00   | -1.23 | 0.00                       | -0.81 | 0.00   | 0.00  | 0.00   | 3.5     |  |
| 100  | 1.25  | 193.04  | -1.20 | 0.00   | -1.19 | 0.00                       | -0.81 | 0.00   | 0.00  | 0.00   | 1-1-1-1 |  |
| 120  | 1.31  | 214.23  | -1.22 | 0.00   | -1.12 | 0.00                       | -0.79 | 0.00   | 0.00  | 0.00   | 1.0     |  |
| 140  | 1.38  | 235.41  | -1.22 | 0.00   | -1.04 | 0.00                       | -0.77 | 0.00   | 0.00  | 0.00   | and a   |  |
| 160  | 1.45  | 256.60  | -1.22 | 0.00   | -0.94 | 0.00                       | -0.74 | 0.00   | 0.00  | 0.00   | 18.11   |  |
| 180  | 1.53  | 277.11  | -1.22 | 0.00   | -0.82 | 0.00                       | -0.70 | 0.00   | 0.00  | 0.00   | 1.24    |  |
| 200  | 1.61  | 295.95  | -1.21 | 0.00   | -0.69 | 0.00                       | -0.66 | 0.00   | 0.00  | 0.00   | 2.      |  |
| 220  | 1.70  | 312.76  | -1.20 | 0.00   | -0.55 | 0.00                       | -0.62 | 0.00   | 0.00  | 0.00   | 1       |  |



Catalyst Oilfield Services 11999 E Hwy 158 Gardendale, TX 79758 (432) 563-0727 Fax: (432) 224-1038

# Water Analysis Report

| Company:      | Breitburn Operating |   | Sample #:      | 29037 |  |
|---------------|---------------------|---|----------------|-------|--|
| Area:         | Permian Basin       | - | Analysis ID #: | 34157 |  |
| Lease:        | Closson B           |   |                |       |  |
| Location:     | B1 Battery          | 0 |                |       |  |
| Sample Point: | Wellhead            |   |                |       |  |

| Sampling Date:                          | 7/9/2015  | Anions                  | mg/l          | meq/l  | Cations                               | mg/l    | meq/l          |
|---|-----------|-------------------------|---------------|--------|---------------------------------------|---------|----------------|
| Analysis Date:                          | 7/14/2015 | Chloride:               | 35081.4       | 989.52 | Sodium:                               | 13700.0 | 595.92         |
| Analyst:                                | Catalyst  | Bicarbonate:            | 1085.8        | 17.79  | Magnesium:                            | 5213.0  | 428.84         |
| TDE (mall or alm2)                      | 61257.7   | Carbonate:              |               | 1.5    | Calcium:                              | 1234.0  | 61.58          |
| TDS (mg/l or g/m3):<br>Density (g/cm3): | 1.042     | Sulfate:                | 3800.0        | 79.12  | Strontium:                            | 32.8    | 0.75           |
| Density (g/cms).                        | 1.042     |                         |               |        | Barium:                               | 0.0     | 0.             |
|   |           |                         |               | 1.00   | Potassium:                            | 353.3   | 9.04           |
| Hydrogen Sulfide:                       | 139.4     |                         |               |        | Iron:                                 | 0.0     | 0.             |
| Carbon Dioxide:                         | 27        |                         |               |        | Manganese:                            | 0.000   | 0.             |
|   |           | pH at time of sampling: |               | 6.66   |                                       |         |                |
| Comments:                               |           | pH at time of analysis: |               |        |                                       |         |                |
|   |           | pH used in Calculation  | :             | 6.66   | Conductivity (mi                      |         |                |
|   | - A       | Temperature @ lab cor   | nditions (F): | 75     | Conductivity (mid<br>Resistivity (ohm |         | 88100<br>.1135 |

|            | Values Calculated at the Given Conditions - Amounts of Scale in Ib/1000 bbl |                              |       |   |       |                                |       |                                |       |                             |       |
|------------|---|------------------------------|-------|---|-------|--------------------------------|-------|--------------------------------|-------|-----------------------------|-------|
| Temp<br>°F |   | Calcite<br>CaCO <sub>3</sub> |       | Gypsum<br>CaSO <sub>4</sub> 2H <sub>2</sub> 0 |       | Anhydrite<br>CaSO <sub>4</sub> |       | Celestite<br>SrSO <sub>4</sub> |       | Barite<br>BaSO <sub>4</sub> |       |
|            | Index   | Amount                       | Index | Amount  | Index | Amount                         | Index | Amount                         | Index | Amount                      |       |
| 80         | 0.42  | 64.66                        | -0.18 | 0.00  | -0.23 | 0.00                           | 0.01  | 0.66                           | 0.00  | 0.00                        | 12    |
| 100        | 0.54  | 85.11                        | -0.21 | 0.00  | -0.19 | 0.00                           | 0.02  | 0.66                           | 0.00  | 0.00                        |       |
| 120        | 0.67  | 105.90                       | -0.22 | 0.00  | -0.12 | 0.00                           | 0.03  | 1.32                           | 0.00  | 0.00                        | 24    |
| 140        | 0.81  | 127.01                       | -0.23 | 0.00  | -0.03 | 0.00                           | 0.05  | 2.31                           | 0.00  | 0.00                        | 270   |
| 160        | 0.94  | 147.80                       | -0.22 | 0.00  | 0.07  | 133.28                         | 0.08  | 3.63                           | 0.00  | 0.00                        | 16.18 |
| 180        | 1.08  | 167.92                       | -0.22 | 0.00  | 0.19  | 330.89                         | 0.11  | 5.28                           | 0.00  | 0.00                        | 1     |
| 200        | 1.22  | 186.72                       | -0.21 | 0.00  | 0.32  | 515.31                         | 0.15  | 6.60                           | 0.00  | 0.00                        |       |
| 220        | 1.35  | 204.21                       | -0.19 | 0.00  | 0.46  | 680.26                         | 0.18  | 7.92                           | 0.00  | 0.00                        |       |

### BUREAU OF LAND MANAGEMENT Carlsbad Field Office 620 East Greene Street Carlsbad, New Mexico 88220 575-234-5972

### Disposal of Produced Water From Federal Wells Conditions of Approval

Approval of the produced water disposal methodology is subject to the following conditions of approval:

- 1. This agency shall be notified of any change in your method or location of disposal.
- 2. Compliance with all provisions of Onshore Order No. 7.
- 3. This agency shall be notified of any spill or discharge as required by NTL-3A.
- 4. This agency reserves the right to modify or rescind approval whenever it determines continued use of the approved method may adversely affect the surface or subsurface environments.
- 5. Any on-lease open top storage tanks shall be covered with a protective cover to prevent entry by birds and other wildlife.
- 6. This approval should not constitute the granting of any right-of-way or construction rights not granted by the lease instrument.
- 7. If water is transported via a pipeline that extends beyond the lease boundary, then you need to submit within 30 days an application for right-of-way approval to the Realty Section in this office if you have not already done so.
- 8. Disposal at any other site will require prior approval.
- 9. Subject to like approval by NMOCD.

7/10/14