

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB NO. 1004-0135  
Expires: July 31, 2010

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*

OCD-ARTESIA

5. Lease Serial No.  
NMNM14845

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.  
LEONARD FEDERAL 2

9. API Well No.  
30-015-03219-00-S1

10. Field and Pool, or Exploratory  
GRAYBURG

11. County or Parish, and State  
EDDY COUNTY, NM

**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well  
 Oil Well  Gas Well  Other

2. Name of Operator  
BREITBURN OPERATING LP Contact: JEANIE MCMILLAN

3a. Address  
300 TRAVIS STREET SUITE 4800  
HOUSTON, TX 77002

3b. Phone No. (include area code)  
Ph: 713.634.4696

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
Sec 33 T17S R29E SWNW 1980FNL 660FWL

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input checked="" type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Conditions of Approval Operator Change required that we submit some additional information for each lease. Breitburn Operating LP respectfully submits the following regarding these conditions of approval.

Attached hereto is a facility Diagram as per Onshore Order #3  
Attached is a water analysis along with Water Production and Disposal information.

Accepted for Record Purposes.  
Approval Subject to Onsite Inspection.  
Date: 11.09.16  
Stueh

**NM OIL CONSERVATION**  
ARTESIA DISTRICT  
NOV 22 2016

SEE ATTACHED FOR  
CONDITIONS OF APPROVAL

**APPROVED**

NOV - 9 2016  
Stueh for  
JAMES A. AMOS  
SUPERVISOR-EPS

14. I hereby certify that the foregoing is true and correct.

**RECEIVED**  
Electronic Submission #344214 verified by the BLM Well Information System  
For BREITBURN OPERATING LP, sent to the Carlsbad  
Committed to AFMSS for processing by PRISCILLA PEREZ on 08/12/2016 (16PP2045SE)

Name (Printed/Typed) JEANIE MCMILLAN Title REGULATORY MANAGER

Signature (Electronic Submission) Date 07/08/2016

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office \_\_\_\_\_

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.





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

### Water Analysis Report

Customer:	Breitburn Operating	Sample #:	35845
Area:	Permian Basin	Analysis ID #:	34102
Lease:	Leonard Fed		
Location:	Battery 0		
Sample Point:	Heater Treater		

<b>Sampling Date:</b>	6/22/2016	<b>Anions</b>	mg/l	meq/l	<b>Cations</b>	mg/l	meq/l
<b>Analysis Date:</b>	6/27/2016	<b>Chloride:</b>	124728.4	3518.13	<b>Sodium:</b>	68600.0	2983.93
<b>Analyst:</b>	Catalyst	<b>Bicarbonate:</b>	48.0	0.79	<b>Magnesium:</b>	3678.0	302.57
<b>TDS (mg/l or g/m3):</b>	204421.7	<b>Carbonate:</b>			<b>Calcium:</b>	4559.0	227.5
<b>Density (g/cm3):</b>	1.141	<b>Sulfate:</b>	1200.0	24.98	<b>Potassium:</b>	1221.0	31.23
Hydrogen Sulfide:	0	<b>Borate*:</b>	282.6	1.79	<b>Strontium:</b>	91.4	2.09
Carbon Dioxide:	100	<b>Phosphate*:</b>			<b>Barium:</b>	0.0	0.0
Comments:		*Calculated based on measured elemental boron and phosphorus.			<b>Iron:</b>	13.3	0.48
		pH at time of sampling:		5.5	<b>Manganese:</b>	0.000	0.0
		pH at time of analysis:					
		pH used in Calculation:		5.5	<b>Conductivity (micro-ohms/cm):</b>		190900
		Temperature @ lab conditions (F):		75	<b>Resistivity (ohm meter):</b>		.0524

#### Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl

Temp	Calcite CaCO <sub>3</sub>		Gypsum CaSO <sub>4</sub> *2H <sub>2</sub> O		Anhydrite CaSO <sub>4</sub>		Celestite SrSO <sub>4</sub>		Barite BaSO <sub>4</sub>	
	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount
80	-1.37	0.00	-0.32	0.00	-0.29	0.00	-0.37	0.00	0.00	0.00
100	-1.28	0.00	-0.39	0.00	-0.30	0.00	-0.40	0.00	0.00	0.00
120	-1.18	0.00	-0.46	0.00	-0.29	0.00	-0.41	0.00	0.00	0.00
140	-1.08	0.00	-0.51	0.00	-0.25	0.00	-0.42	0.00	0.00	0.00
160	-0.97	0.00	-0.56	0.00	-0.19	0.00	-0.42	0.00	0.00	0.00
180	-0.85	0.00	-0.60	0.00	-0.12	0.00	-0.41	0.00	0.00	0.00
200	-0.72	0.00	-0.64	0.00	-0.04	0.00	-0.40	0.00	0.00	0.00
220	-0.59	0.00	-0.67	0.00	0.06	59.27	-0.38	0.00	0.00	0.00

# Leonard Federal Lease

## 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.  
Seven Rivers, Queen, Grayburg, San Andres
2. Amount of water produced from all formations in barrels per day.  
10 BPD
3. 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).  
See Attached
4. How water is stored on lease.  
it is Dumped to 3000 bl. Tank from Hecter Treder
5. How water is moved to the disposal facility.  
Transport truck
6. Identify the Disposal Facility by:
  - A. Facility Operators name. Breitbunn Operating
  - B. Name of facility or well name and number. Antesia Unit Well #001
  - C. Type of facility or well (WDW) (WIW) etc. WDW
  - D. Location by  $\frac{1}{4}$   $\frac{1}{4}$  NW<sup>SW</sup> Section 26 Township 17S Range 28E Eddy County N.M.
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).

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