

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OCD-ARTESIA

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.*5. Lease Serial No.  
NMNM14845

6. If Indian, Allottee or Tribe Name

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

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

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other8. Well Name and No.  
LEONARD FEDERAL 12. Name of Operator  
BREITBURN OPERATING LP

Contact: JEANIE MCMILLAN

9. API Well No.  
30-015-03216-00-S13a. Address  
300 TRAVIS STREET SUITE 4800  
HOUSTON, TX 770023b. Phone No. (include area code)  
Ph: 713.634.469610. Field and Pool, or Exploratory  
GRAYBURG

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 33 T17S R29E NENW 330FNL 2310FWL

11. County or Parish, and State

EDDY COUNTY, NM

**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	

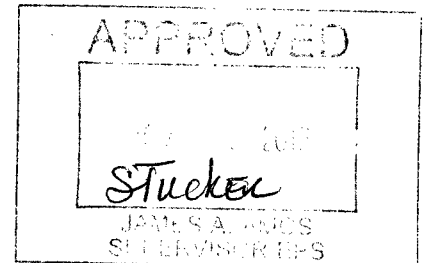
13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths 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 recompleat 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: 11.09.2016  
Stucker

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

SEE ATTACHED FOR  
CONDITIONS OF APPROVAL

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

Electronic Submission #344208 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 (16PP2039SE)

Name (Printed/Typed) JEANIE MCMILLAN

Title REGULATORY MANAGER

Signature (Electronic Submission)

Date 07/08/2016

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE****Accepted For Record  
NMOC**

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.

**\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\***

# Leonard Federal Battery

Field Artesia Current Status Active

State: New Mexico Lease Leonard Federal

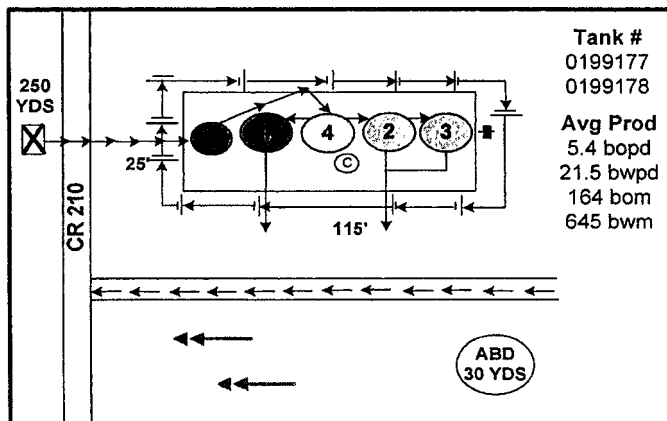
County Eddy Diagram Revised: Jimika Reed-Terry (09-07-10)

Elevation: 3567'

Location: 17N 29E Sec. 33

Coordinates: N32.79293  
W104.08406

Back



## History

8/2008: Jack's hole in water tank. Had water removed cleanup area apply fiberglass patch. New 210 oil tanks on location. Spotted 500 frac tank remove oil from tank. Start taking down old battery. Hauled caliche from Federal 384 PTA to battery for burn. Tear down old battery. Tear down old battery. Remove connections from tank. Wilbanks trucking set old tanks off pad. Note 210 to be used at State 721 had hole in bottom did not leak outside tank. Grando's Backhoe service started clearing out old pad.

## Tank Information

**1** Salt Water

Diameter = 12 ft  
Height = 15 ft  
Capacity=302 bbls  
Total Diked Area= Capacity 370 bbls  
Direction of Flow= W  
Foundation = Gravel  
Secondary Containment = Earth & Gravel  
Min. Recommend Berm Height = 17 in.  
Lowest point of berm at time of inspection = 18 in.

## Tank Information

**2** **3** Oil

Diameter = 10 ft  
Height = 15 ft  
Capacity=210 bbls  
Total Diked Area= Capacity 370 bbls  
Direction of Flow= W  
Foundation = Gravel  
Secondary Containment = Earth & Gravel  
Min. Recommend Berm Height = 17 in.  
Lowest point of berm at time of inspection = 18 in.

## Tank Information

**4** Gun Barrel

Diameter = 10 ft  
Height = 15 ft  
Capacity=210 bbls  
Total Diked Area= Capacity 370 bbls  
Direction of Flow= W  
Foundation = Gravel  
Secondary Containment = Earth & Gravel  
Min. Recommend Berm Height = 17 in.  
Lowest point of berm at time of inspection = 18 in.

## Heater Treater Information

**Heater Treater**

Diameter = 4 ft  
Height = 20 ft  
Capacity=45 bbls  
Foundation = Cement  
Total Diked Area= Capacity 370 bbls  
Direction of Flow= W  
Secondary Containment = Earth & Gravel  
Min. Recommend Berm Height = 17 in.  
Lowest point of berm at time of inspection = 18 in.



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

## Water Analysis Report

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

Sampling Date:	6/22/2016	Anions	mg/l	meq/l	Cations	mg/l	meq/l
Analysis Date:	6/27/2016	Chloride:	124728.4	3518.13	Sodium:	68600.0	2983.93
Analyst:	Catalyst	Bicarbonate:	48.0	0.79	Magnesium:	3678.0	302.57
		Carbonate:			Calcium:	4559.0	227.5
TDS (mg/l or g/m3):	204421.7	Sulfate:	1200.0	24.98	Potassium:	1221.0	31.23
Density (g/cm3):	1.141	Borate*:	282.6	1.79	Strontium:	91.4	2.09
		Phosphate*:			Barium:	0.0	0.
Hydrogen Sulfide:	0	*Calculated based on measured elemental boron and phosphorus.			Iron:	13.3	0.48
Carbon Dioxide:	100				Manganese:	0.000	0.
Comments:			pH at time of sampling:	5.5			
			pH at time of analysis:				
		pH used in Calculation:	5.5		Conductivity (micro-ohms/cm):	190900	
		Temperature @ lab conditions (F):	75		Resistivity (ohm meter):	.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	
°F											
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 Hester Treder
5. How water is moved to the disposal facility.  
Transport truck
6. Identify the Disposal Facility by:
  - A. Facility Operators name. Breithorn 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  $\frac{1}{4}$  NW <sup>SW</sup> Section 26 Township 17S Range 28E Rddy County NM
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