

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NMOCD

Artesia

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018**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.
NMNM131581

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.
WHITE ROCK FEDERAL 1H9. API Well No.
30-005-6430010. Field and Pool or Exploratory Area
ROUND TANK, SAN ANDRES11. County or Parish, State
CHAVES COUNTY, NM**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

MACK ENERGY CORPORATION

Contact: JERRY SHERRELL

E-Mail: jerrys@mec.com

3a. Address

PO BOX 960
ARTESIA, NM 88211-0960

3b. Phone No. (include area code)

Ph: 575-748-1288

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

Sec 28 T15S R29E Mer NMP NWNW 140FNL 555FWL

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" 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 type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<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 must 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 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

1. Name of formations producing water on this lease. ROUND TANK SAN ANDRES.

2. Amount of water produced in barrels per day. 2050.

3. Water analysis. ATTACHED.

4. How is water stored on lease. FIBERGLASS TANKS.

5. How water is moved to disposal facility. PIPELINE.

6. Disposal facility. MACK ENERGY CORPORATION, ROUND TANK SWD #1, WDW, NESW SEC. 19 T15S R29E.

RECEIVED

NOV 28 2018

DISTRICT II-ARTESIA O.C.D.

GC 12-3-18
Accepted for record - NMOCDSEE ATTACHED FOR
CONDITIONS OF APPROVAL

14. I hereby certify that the foregoing is true and correct.	
Electronic Submission #444803 verified by the BLM Well Information System For MACK ENERGY CORPORATION, sent to the Roswell Committed to AFMSS for processing by JENNIFER SANCHEZ on 11/20/2018 ()	
Name (Printed/Typed) JERRY SHERRELL	Title PRODUCTION CLERK
Signature (Electronic Submission)	Date 11/20/2018
THIS SPACE FOR FEDERAL OR STATE OFFICE USE	
Approved By _____	Title _____
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.	

(Instructions on page 2)

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **



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

Water Analysis Report

Customer:	Mack Energy Corporation	Sample #:	69216
Area:	Artesia	Analysis ID #:	66858
Lease:	White Rock		
Location:	2H		0
Sample Point:	Wellhead		

		Anions		Cations	
		mg/l	meq/l	mg/l	meq/l
Sampling Date:	7/19/2018	Chloride:	107459.3	Sodium:	66850.0
Analysis Date:	7/30/2018	Bicarbonate:	950.4	Magnesium:	1064.0
Analyst:	Catalyst	Carbonate:		Calcium:	2647.0
TDS (mg/l or g/m3):	184246.9	Sulfate:	4500.0	Potassium:	544.0
Density (g/cm3):	1.122	Borate*:	172.9	Strontium:	54.2
		Phosphate*		Barium:	0.3
Hydrogen Sulfide:	12	*Calculated based on measured elemental boron and phosphorus.		Iron:	4.2
Carbon Dioxide:	152			Manganese:	0.565
Comments:				Conductivity (micro-ohms/cm):	185718
				Resistivity (ohm meter):	.0538
		pH at time of sampling:	6.5		
		pH at time of analysis:			
		pH used in Calculation:	6.5		
		Temperature @ lab conditions (F):	75		

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

Temp	Calcite CaCO ₃		Gypsum CaSO ₄ ·2H ₂ O		Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO ₄	
	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount
°F										
80	0.66	82.32	0.03	97.26	0.05	128.90	0.01	1.17	0.87	0.00
100	0.75	93.74	-0.05	0.00	0.04	99.90	-0.02	0.00	0.67	0.00
120	0.83	105.46	-0.11	0.00	0.05	137.69	-0.03	0.00	0.49	0.00
140	0.91	117.18	-0.17	0.00	0.09	230.26	-0.04	0.00	0.33	0.00
160	0.99	129.19	-0.22	0.00	0.14	362.09	-0.04	0.00	0.20	0.00
180	1.06	141.20	-0.26	0.00	0.21	518.81	-0.04	0.00	0.08	0.00
200	1.14	153.21	-0.29	0.00	0.30	687.55	-0.03	0.00	-0.02	0.00
220	1.22	164.64	-0.32	0.00	0.40	857.17	-0.02	0.00	-0.10	0.00

BUREAU OF LAND MANAGEMENT

Roswell Field Office

2909 West Second Street

Roswell, New Mexico 88201

(575) 622-5335

**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 wire screen 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 to the BLM Roswell Field office at 2909 West Second Street, Roswell, New Mexico 88201 if you have not already done so.