UNITED STATES DEPARTMENT OF THE INTERI BUREAU OF LAND MANAGEME

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IOR NT	~	Art

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

		Expues:	Jai	nuar
5.	Lease	Serial No.	•	
	NIMA	M101107	7.	

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

SUNDRY Do not use th	NOTICES AND REPO is form for proposals to	RTS ON WELLS			NMNM101107	
abandoned we	II. Use form 3160-3 (AP	D) for such proposal	S.	. 55	6. If Indian, Allottee	or Tribe Name
<u>and the state of </u>	TRIPLICATE - Other ins	fructions on page 2		*	7. If Unit or CA/Agre NMNM139454	ement, Name and/or No.
Type of Well	her			· · · · · · · · · · · · · · · · · · ·	8. Well Name and No. SASKATOON FE	DERAL COM 1H
2: Name of Operator MACK ENERGY CORPORAT	Contacte FION E-Mail: jerrys@ma	JERRY SHERRELL ckenergycorp.com			9. API Well No. 30-005-64313-0	 00-S1
3a. Address P.O. BOX 960 ARTESIA, NM 88211-0960		3b. Phone No. (include a Ph.: 505.748.1288 Fx: 505.746.9539	ea code)	<u> </u>	10. Field and Pool or ROUND TANK-	Exploratory Area SAN ANDRES
4. Location of Well (Footage, Sec., 7	., R., M., or Survey Description)			11. County or Parish,	State
Sec 18 T15S R29E SWSE 96 33 011276 N Lat, 104 064659	0FSL 1675FEL W Lon				CHAVES COU	NTY, NM
12. CHECK THE AI	PPROPRIATE BOX(ES)	TO INDICATE NATI	JRE OI	NOTICE,	REPORT, OR OTH	IER DATA
TYPE OF SUBMISSION			1 .	ACTION	· · · · · · · · · · · · · · · · · · ·	1
☐ Notice of Intent	☐ Acidize	□ Deepen	,	□ Product	ion (Start/Resume)	■ Water Shut-Off
_	☐ Alter Casing	☐ Hydraulic Frac	turing	☐ Reclam		☐ Water Shut-On
Subsequent Report	□ Casing Repair	☐ New Construct	ion	Recomp	Ł	Other
☐ Final Abandonment Notice	☐ Change Plans	☐ Plug and Aban	don	Tempor	arily Abandon	
Describe Proposed or Completed Ope If the proposal is to deepen directiona	Convert to Injection	☐ Plug Back		⊠ Water D	Pisposal	
testing has been completed. Final Abdetermined that the site is ready for fire 1. Name of formations producing 2. Amount of water produced from 3. Attach a current water analyconcentrations of chlorides and 4. How water is stored on lease 5. How water is moved to dispose 6. Identify the Disposal Facility A. Facility operators name. Ma. B. Name of Facility or well name C. Type of facility or well (WDV D. Location. NESW Sec. 19 T. Attach a copy of the state issue.)	ng water on the lease. Ro om all formations in barre sis of produced water fron d sulfates. e. Fiberglass tank. osal facility. Pipeline. by: ck Energy Corporation. he and number. Round Ta v) (WIW) etc. WDW.	und Tank; San Andres Is per day. 507. In all zones showing at Accepted for Ink SWD #1	i.		DEC 1	NED 1 2019
14. I hereby certify that the foregoing is t	rue and correct.	h	<u> </u>	N. P. L.		
Comm Name (Printed/Typed) JERRY SH	Electronic Submission #4 For MACK ENER itted to AFMSS for process ERRELL	94635 verified by the BL GY CORPORATION, seing by JENNIFER SANG Title P	M-Well-lent to the CHECOGE	nformation Roswell 172/05/2019 TION CLEI	System (20550032SE) RK	
S gnature (Electronic-S	bmission)	Date 12	2/05/201	DEC 05	2019	
	THIS SPACE FOI	FEDERAL OR ST			MANAGEMENT	
rity that the applicant holds legal or equit nich would entitle the applicant to conduct	Approval of this notice does nable title to those/rights in/tile stoperations thereon.	ot warrant or utifice for least	ROS	WELL FIE	U OFFICE	Date
tle 18 U.S.C. Section 1001 and Title 43 U States any false, fictitious or fraudulent sta	S.C Section 212, make it a citements or representations as to	ime for any person knowing any matter within its jurisd	ly and wi	illfully to mak	e to any department or ag	gency of the United
structions on page 2) ** BLM REVIS	SED ** BLM REVISED	** BLM REVISED **	BLM F	REVISED	** BLM REVISED	**

Revisions to Operator-Submitted EC Data for Sundry Notice #494635

Operator Submitted

DISPOSE SR Sundry Type:

Lease:

NMNM101107

Agreement:

NMNM139454

Operator:

MACK ENERGY CORPORATION PO BOX 960 ARTESIA, NM 88211-0960 Ph: 575-748-1288

Admin Contact:

JERRY SHERRELL PRODUCTION CLERK

E-Mail: jerrys@mec.com

Ph: 575-748-1288

Tech Contact:

JERRY SHERRELL PRODUCTION CLERK

E-Mail: jerrys@mec.com

Ph: 575-748-1288

Location:

State:

CHAVES County:

Field/Pool:

ROUND TANK SAN ANDRES

Well/Facility:

SASKATOON FEDERAL COM 1H Sec 18 T15S R29E Mer NMP SWSE 960FSL 1675FEL 33.011276 N Lat, 104.064659 W Lon

BLM Revised (AFMSS)

DISPOSE SR

NMNM101107

NMNM139454 (NMNM139454)

MACK ENERGY CORPORATION P.O. BOX 960 ARTESIA, NM 88211-0960 Ph: 505-748-1288

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CHAVES

ROUND TANK-SAN ANDRES

SA\$KATOON FEDERAL COM 1H Sec 18 T15S R29E SWSE 960FSL 1675FEL 33.011276 N Lat, 104.064659 W Lon



Catalyst Olifield Services 11990 E Hwy 158 Gardendale, TX 79758 (432) 563-0727 Fax: (432) 224-1038

Water Analysis Report

Çuştomer:	Mack Energy Corporation	Sample #:	81533	er ig		· *:		
Area:	Artesia	Análysis ID #:	80615			*	,	7.75
Lease:	Saskatoon			-4 5-45-45 -	هان سو سره در ده	Topper pr		
Location:	Fed Com 1H 0							
Sample Point:	Wellhead							

Sampling Date:	1/10/2019	Anions	mg/l	meq/l	Cations	mg/1	meq/l
Analysis Date: Analyst:	1/23/2019 Catalyst	Chloride: Bicarbonate:	91681.1 153.7	2585.99 2.52	Sodium: Magnesium:	54050.0 1173.0	2351.04 96.5
TDS (mg/l or g/m3): Density (g/cm3):	151377.2 1.105	Carbonate: Sulfate: Borate*: Phosphate*	700.0 144.3	14.57 0.91	Calcium: Potassium: Strontlum: Barlum:	2767.0 647.0 60.1 0.6	138.07 16.55 1.37 0.01
Hydrogen Sulfide: Carbon Dioxide:	4 90	*Calculated based elemental borón a			fron: Manganese:	0.0 0.416	0.01 0.02
Cơm mẹnts:		pH at time of sampling: pH at time of analysis:	•	7.23			
	***	pH used in Calculation Temperature @ lab co		7.23 75	Conductivity (mid		197210 .0507

	Values Calculated at the Given Conditions - Amounts of Scale in Ib/1000 bbl									
Temp	Calcite CaCO ₃	Gypsum CaSO ₄ 2H ₂ 0	Anhydrice CaSO ₄	Celestite SrSO ₄	Barité BaSO ₄					
°F.	Index Amount	Index Amount	Index Amount	Index Amount	Index 'Amount'	-				
~ 80°	0.57 6.35	70.72 0.00	0.71 0.00	° -0.66 0.00 -	0.45 0.30	-				
100	0.57 7.26.	0.79 0.00	-0.72 0.00	-0.69 0.00	0.25 0.00					
120	0.58 8.77	-0.84 0.00	-0.69 0.00	0.70 0.00	0.07 0.00					
140	0.59 10.28	-0.89 0.00	-0.65 0.00	-0.71 0.00	0.08 0.00	2				
160	0.60 12.10	-0.93 0.00	-0.59 0.00	0.70 0.00	0.21 0.00					
180	0.63 13.91	-0.96 0.00	-0.51 0.00	0.70	-0.32 0.00	- 1				
200	0.66 16.03	0.99 0.00	-0.41 0.00	0.69 0.00	-0.42 0.00					
220	0.71 18.45	-1.01 0.00	-0.31 -0.00	- 0.67 0.00	-0.49 0.00	. 4				



New Mexico Energy, Minerals and Natural Resources Department

Bill Richardson

Joanna Prukop Cabinet Secretary Reese Fullerton Deputy Cabinet Secretary Mark Fesmire Division Director Oil Conservation Division



March 9, 2009

Jerry W. Sherrell Mack Energy Corp PO Box 960 Artesia, NM 88211-0960 Administrative Order SWD-1163

ADMINISTRATIVE ORDER OF THE OIL CONSERVATION DIVISION

Under the provisions of Division Rule 26.8B., Mack Energy Corp seeks an administrative order to utilize its Roundtank SWD Well No. 1 (API 30-005-64095) located 1980 feet from the South line and 1980 feet from the West line, Unit K of Section 19, Township 15 South, Range 29 East, NMPM, Chaves County, New Mexico, for produced water disposal purposes.

THE DIVISION DIRECTOR FINDS THAT:

The application has been duly filed under the provisions of Division Rule 26.8B. Satisfactory information has been provided that affected parties as defined in Rule 26.8B.(2) have been notified and no objections have been received within the prescribed waiting period. The applicant has presented satisfactory evidence that all requirements prescribed in Rule 26.8 will be met and the operator is in compliance with Division Rule 5.9.

IT IS THEREFORE ORDERED THAT:

The applicant Mack Energy Corp, is hereby authorized to utilize its Roundtank SWD Well No. 1 (API 30-005-64095) located 1980 feet from the South line and 1980 feet from the West line, Unit K of Section 19, Township 15 South, Range 29 East, NMPM, Chaves County, New Mexico, for disposal of produced water into the Devonian formation from approximately 10500 feet to 11200 feet through 2-7/8 inch or smaller diameter, plastic-lined tubing set within 100 feet of the disposal interval.

As preparation and prior to commencing disposal, the operator shall perform the following work on the subject well:

Unless hole-conditions prevent this, run openhole resistivity and porosity logs from total depth to surface and supply copies of these electric logs to the Division (send to Hobbs district for scanning).

2) Send a copy of a mudlog with plots of lithology, drilltimes, and any hydrocarbon



shows through this Devonian interval - OR

3) If a mudlog is NOT available, perforate and swab test the new perforations for hydrocarbon potential and catch a water sample for analysis. The Division's district office shall be noticed prior to this test and given the opportunity to witness the swab test. The results of the swab test and water analysis shall be sent to the Division attached to a sundry notice.

IT IS FURTHER ORDERED THAT:

The operator shall take all steps necessary to ensure that the disposed water enters only the proposed disposal interval and is not permitted to escape to other formations or onto the surface.

After installing tubing, the casing-tubing annulus shall be loaded with an inert fluid and equipped with a pressure gauge or an approved leak detection device in order to determine leakage in the casing, tubing, or packer. The casing shall be pressure tested from the surface to the packer setting depth to assure easing integrity.

The wellhead injection pressure on the well shall be limited to no more than 2100 psi. In addition, the disposal well or system shall be equipped with a pressure limiting device in workable condition which shall, at all times, limit surface tubing pressure to the maximum allowable pressure for this well.

The Director of the Division may authorize an increase in tubing pressure upon a proper showing by the operator of said well that such higher pressure will not result in migration of the disposed fluid from the target formation. Such proper showing shall be demonstrated by an acceptable Step-Rate-Test.

The operator shall notify the supervisor of the Division's district II office in Artesia of the date and time of the installation of disposal equipment and of any mechanical integrity test so that the same may be inspected and witnessed. The operator shall provide written notice of the date of commencement of disposal to the Division's district II office. The operator shall submit monthly reports of the disposal operations on Division Form C-115, in accordance with Division Rules 26.13 and 7.24.

Without limitation on the duties of the operator as provided in Division Rules 30 and 29, or otherwise, the operator shall immediately notify the Division's district office of any failure of the tubing, casing or packer in the well, or of any leakage or release of water, oil or gas from around any produced or plugged and abandoned well in the area, and shall take such measures as may be timely and necessary to correct such failure or leakage.

In accordance with Division Rule No 26.12.C., the disposal authority granted herein shall terminate one year after the effective date of this order if the operator has not commenced injection operations into the subject well, provided however, the Division, upon written request, mailed by the operator prior to the termination date, may grant an extension thereof for good

cause. One year after disposal into the well has ceased, the authority to dispose will terminate ipso facto.

Compliance with this order does not relieve the operator of the obligation to comply with other applicable federal, state or local laws or rules, or to exercise due care for the protection of fresh water, public health and safety and the environment.

Jurisdiction is retained by the Division for the entry of such further orders as may be necessary for the prevention of waste and/or protection of correlative rights or upon failure of the operator to conduct operations (1) to protect fresh or protectable waters or (2) consistent with the requirements in this order, whereupon the Division may, after notice and hearing, terminate the disposal authority granted herein.

MARK E. FESMIRE, P.E.

Director

MEF/wvjj

cc: Oil Conservation Division - Artesia

State Land Office - Oil, Gas, and Minerals Division