

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

CCD-ARTESIA

FORM APPROVED  
Budget Bureau No 1004-0135  
Expires March 31, 1993

5 Lease Designation and Serial No  
NMNM-119269/NMLC-068677  
6 If Indian, Allottee or Tribe Name

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

RECEIVED

DEC 21 2009

NMOCD ARTESIA

1 Type of Well  
☒ Oil Well ☐ Gas Well ☐ Other

2 Name of Operator

Mack Energy Corporation

3 Address and Telephone No

P O. Box 960 Artesia, NM 88211-0960

(575) 748-1288

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

S/2, Sec 8-T16S-R29E

7 If Unit or CA, Agreement Designation

Waiting on CA

8 Well Name and No

Giants Federal #1 & #2

9 API Well No

30-05-36431  
30-05-36523

10 Field and Pool, or Exploratory Area

Ishee Lake; Abo

11 County or Parish, State

Edg  
Lea, NM

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

TYPE OF SUBMISSION

- ☐ Notice of Intent  
☒ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other Onshore Order 7  
☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form)

13 Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work)\*

Name (s) of formation (s) producing water on the lease Ishee Lake; Abo

Amount of water produced from each formation in barrels per day 34

A water analysis of produced water from each zone showing at lease the total dissolved solids, ph, and concentration of chlorides and sulfates.

Attached

How water is stored on lease

Fiberglass Tank

How water is moved to disposal facility

Trucked

Operator's name, well name and location, by 1/4 1/4, section township, and range, of the disposal facility. If the disposal facility is an approved disposal system, the operator's name and the name of the disposal system should suffice.

Mack Energy Corporation

Eagle Nest SWD #2

SE/4 NE/4 Sec 5-T16S-R30E

Disposal Permit

SWD-1173

Accepted for record  
NMOCD

SUBJECT TO LIKE  
APPROVAL BY STATE

14 I hereby certify that the foregoing is true and correct

Signed Jerry W. Sherrell

Title Production Clerk

(This space for Federal or State office use)

Approved by \_\_\_\_\_  
Conditions of approval if any \_\_\_\_\_

Title \_\_\_\_\_

APPROVED

Date 11/10/09

DEC 16 2009

/s/ JD Whitlock Jr

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

BUREAU OF LAND MANAGEMENT  
CARLSBAD FIELD OFFICE

\*See Instruction on Reverse Side



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

## Water Analysis Report

Company:	Mack Energy Corporation	Sample #:	14961
Area:	Artesia	Analysis ID #:	2374
Lease:	Giants		
Location:	1		0
Sample Point:	Wellhead		

		Anions		Cations	
		mg/l	meq/l	mg/l	meq/l
Sampling Date:	8/2/2009	Chloride:	51556.7	Sodium:	24991.0
Analysis Date:	9/8/2009	Bicarbonate:	311.6	Magnesium:	1791.0
Analyst:	Mitchell	Carbonate:	0.0	Calcium:	5258.2
TDS (mg/l or g/m3):	85709.9	Sulfate:	1800.0	Strontium:	
Density (g/cm3):	1.06			Barium:	
				Iron:	0.9
Hydrogen Sulfide:	22.00			Manganese:	0.450
Carbon Dioxide:	37.00				
Comments:		pH at time of sampling:	7		
		pH at time of analysis:			
		pH used in Calculation:	7		
		Temperature @ lab conditions (F):	75	Conductivity (micro-ohms/cm):	122500
				Resistivity (ohm meter):	.0816

### 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>		
°F	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount		
80	0.83	28.99	0.02	34.47	-0.02	0.00	0.00	0.00	0.00	0.00	0.00	
100	0.91	32.86	-0.02	0.00	0.01	19.33	0.00	0.00	0.00	0.00	0.00	
120	0.98	37.05	-0.05	0.00	0.06	106.64	0.00	0.00	0.00	0.00	0.00	
140	1.06	41.24	-0.07	0.00	0.14	215.53	0.00	0.00	0.00	0.00	0.00	
160	1.13	45.43	-0.08	0.00	0.23	329.90	0.00	0.00	0.00	0.00	0.00	
180	1.21	49.61	-0.08	0.00	0.34	438.47	0.00	0.00	0.00	0.00	0.00	
200	1.29	53.80	-0.08	0.00	0.46	533.51	0.00	0.00	0.00	0.00	0.00	
220	1.38	57.67	-0.08	0.00	0.59	612.44	0.00	0.00	0.00	0.00	0.00	