

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD-ARTESIA

RECEIVED
JUL 7 2010
NMOCD ARTESIA

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

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

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)

1980 FSL & 330 FEL, Sec. 19 T16S R29E

5 Lease Designation and Serial No

NMNM-89878

6 If Indian, Allottee or Tribe Name

7 If Unit or CA, Agreement Designation

NMNM-124572

8 Well Name and No

Bengals Federal Com #1

9 API Well No

30-015-37213

10 Field and Pool, or Exploratory Area

Pavo Mesa;Abo

11 County or Parish, State

Eddy, 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 Pavo Mesa;Abo

Amount of water produced from each formation in barrels per day 589

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.

COG Operating LLC

Aid State 14 #1

SW/4 SE/4 Sec-14-T17S-R28E

Disposal Permit

Accepted for record

NMOCD RE

7/8/10

SWD-757

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

14 I hereby certify that the foregoing is true and correct

Signed Jerry W. Shewell

Title Production Clerk

Date 6/15/10

(This space for Federal or State office use)

Approved by _____
Conditions of approval, if any

Title _____

Date _____

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 any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction

•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

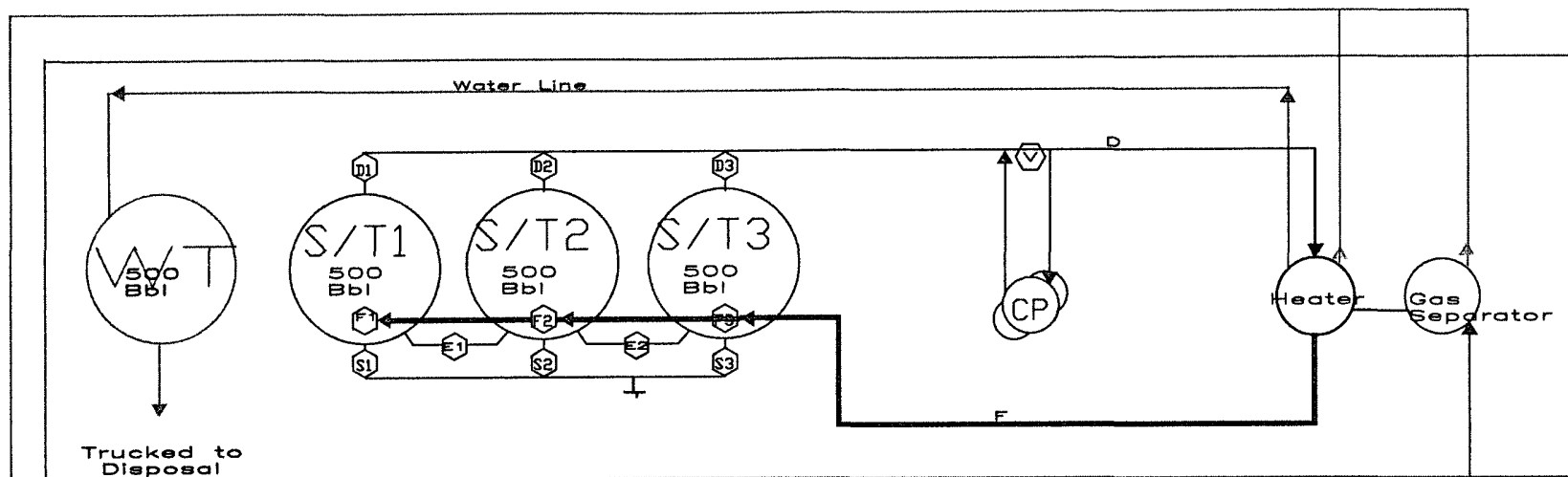
Customer: Mack Energy Corporation Sample #: 1164
Area: Artesia Analysis ID #: 3390
Lease: Bengals Fed
Location: 1 0
Sample Point: Wellhead

		Anions		Cations	
		mg/l	meq/l	mg/l	meq/l
Sampling Date:	3/3/2010	Chloride:	44647.8	Sodium:	21210.0
Analysis Date:	3/8/2010	Bicarbonate:	539.2	Magnesium:	1570.0
Analyst:	Catalyst	Carbonate:		Calcium:	4814.0
TDS (mg/l or g/m3):	74393.6	Sulfate:	1400.0	Strontium:	0.0
Density (g/cm3):	1.053			Barium:	0.9
				Iron:	5.4
				Manganese:	0.337
Hydrogen Sulfide:	83				
Carbon Dioxide:	79				
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):	95000
				Resistivity (ohm meter):	.1053

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		
°F	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount		
80	1.04	65.47	-0.09	0.00	-0.13	0.00	0.00	0.00	1.08	0.33		
100	1.12	71.99	-0.13	0.00	-0.10	0.00	0.00	0.00	0.91	0.33		
120	1.20	78.83	-0.15	0.00	-0.04	0.00	0.00	0.00	0.76	0.33		
140	1.28	85.67	-0.17	0.00	0.03	46.26	0.00	0.00	0.64	0.33		
160	1.36	92.19	-0.17	0.00	0.13	161.89	0.00	0.00	0.53	0.33		
180	1.45	98.70	-0.17	0.00	0.24	269.72	0.00	0.00	0.44	0.33		
200	1.53	104.89	-0.17	0.00	0.37	363.86	0.00	0.00	0.38	0.33		
220	1.62	110.75	-0.16	0.00	0.50	440.73	0.00	0.00	0.32	0.33		

SCANNED



Gas
Meter

Production Phase

Vikings Federal Battery			
S/T 1	S/T 2	S/T 3	
F1 Open	F1-3 Closed	F1-2 Closed	
D1 Open	D1-3 Closed	D1-2 Closed	
E1 Open	E1 Open	E2 Open	
S1 Closed	S1-3 Closed	S1-2 Closed	
D2-3 Closed	F2 Open	F3 Open	
S2-3 Closed	D2 Open	D3 Open	
	S2 Closed	S3 Closed	

Sales Phase

Vikings Federal Battery			
S/T 1	S/T 2	S/T 3	
F1 Closed	F1 Open	F1-2 Open	
D1 Closed	D1 Open	D1-2 Open	
E1 Closed	E1 Closed	E2 Closed	
S1 Open	S1-3 Closed	S1-2 Closed	
D2 Open	F2 Closed	F3 Closed	
S2-3 Closed	D2 Closed	D3 Closed	
	S2 Open	S3 Open	

MACK
Energy Corporation

0
Bengals
FederalCom
#1

This Lease is subject to the site Security plan for southeast New Mexico operations.

The Plan is Located at :

Mack Energy Corporation
P.O. Box 960
Artesia NM 88211-0960

Mack Energy Corporation
Bengals Federal Tank Battery
NE/4 SE/4
Section 19 T16S R29E

————— Bengals Federal Com Lease

**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. All above ground structures on the lease shall be painted Shale Green (5Y 4/2), or as per approved APD stipulations. This is to be done within 90 days, if you have not already done so.
6. Any on-lease open top storage tanks shall be covered with a protective cover to prevent entry by birds and other wildlife.
7. This approval should not constitute the granting of any right-of-way or construction rights not granted by the lease instrument.
8. 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.
9. Subject to like approval by NMOCD.
10. If approved facility is down you must obtain approval prior to taking water to any other facility.

3/25/2010