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Form 3160-5
(June 1990)

OCT 27 2010

HOBBSSOCD

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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)

1650 FSL & 2310 FWL Sec. 8 T17S R32E

FORM APPROVED

Budget Bureau No. 1004-0135

Expires: March 31, 1993

5. Lease Designation and Serial No.

NMLC-029406B

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Pintail Federal #1

9. API Well No.

30-025-39527

10. Field and Pool, or Exploratory Area

Maljamar; Yeso, West

11. County or Parish, State

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 **Maljamar; Yeso, West**

Amount of water produced from each formation in barrels per day **400**

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

pipeline

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
Pronghorn SWD**

NE/4 NW/4 Sec. 20 T17S R32E

Disposal Permit

**SEE ATTACHED FOR
CONDITIONS OF APPROVAL**

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

Signed *James W. Shenall*

Title Production Clerk

Date 10/14/10

(This space for Federal or State office use)

Approved by

Conditions of approval, if any:

Title

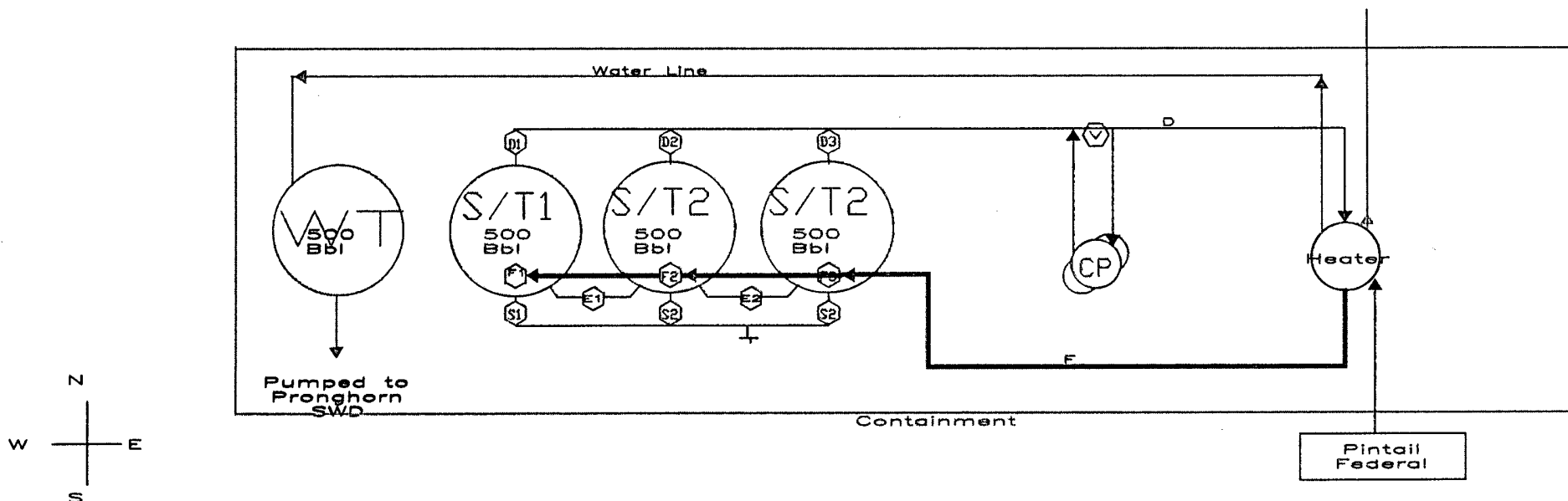
Date

NOV 01 2010

PETROLEUM ENGINEER

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



Production Phase

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

Sales Phase

Pintall 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 Closed	S1-2 Closed	
D2 Open	D2 Closed	F3 Closed	
S2 Open	S2 Closed	D3 Closed	
S2 Closed	S2 Open	S3 Open	

MACK
Energy Corporation



0
Pintall
Federal
#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
Pintall Federal Tank Battery
NE/4 SW/4
Section 8 T17S R32E

————— Pintall Federal Lease



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 #: 2507
 Area: Artesia Analysis ID #: 4880
 Lease: PINTAIL
 Location: 1 0
 Sample Point: Wellhead

		Anions		mg/l	meq/l	Cations		mg/l	meq/l
Sampling Date:	8/25/2010	Chloride:		67569.6	1905.89	Sodium:		40740.0	1772.09
Analysis Date:	8/27/2010	Bicarbonate:		395.3	6.48	Magnesium:		903.4	74.32
Analyst:	Catalyst	Carbonate:				Calcium:		2349.0	117.22
TDS (mg/l or g/m3):	115399.5	Sulfate:		3000.0	62.46	Potassium:		375.8	9.61
Density (g/cm3):	1.078					Strontium:		48.3	1.1
						Barium:		0.0	0.
Hydrogen Sulfide:	67					Iron:		18.1	0.65
Carbon Dioxide:	35					Manganese:		0.000	0.
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):			148629
						Resistivity (ohm meter):			.0673

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	0.63	25.04	-0.12	0.00	-0.14	0.00	-0.05	0.00	0.00	0.00		
100	0.70	30.05	-0.18	0.00	-0.13	0.00	-0.07	0.00	0.00	0.00		
120	0.77	35.37	-0.23	0.00	-0.09	0.00	-0.08	0.00	0.00	0.00		
140	0.83	41.00	-0.26	0.00	-0.04	0.00	-0.08	0.00	0.00	0.00		
160	0.89	46.63	-0.29	0.00	0.04	83.25	-0.08	0.00	0.00	0.00		
180	0.95	52.89	-0.31	0.00	0.13	259.46	-0.06	0.00	0.00	0.00		
200	1.01	58.84	-0.32	0.00	0.24	435.05	-0.05	0.00	0.00	0.00		
220	1.08	64.79	-0.33	0.00	0.35	600.31	-0.03	0.00	0.00	0.00		

**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. Disposal at any other site will require prior approval.
10. Subject to like approval by NMOCD.

9/30/2010