

RECEIVED

HOBBS (N)

## OIL CONSERVATION DIVISION

20 South St. Francis Dr.

Santa Fe, NM 87505

WELL API NO.

30-025-33883

5. Indicate Type of Lease

STATE ☐FEE ☒

6. State Oil &amp; Gas Lease No.

7. Lease Name or Unit Agreement Name  
SV Big Bertha

8. Well Number 1

9. OGRID Number

147179

10. Pool name or Wildcat

SWD; Wolfcamp

## SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well ☐ Gas Well ☐ Other SWD ☒

2. Name of Operator Chesapeake Operating, Inc.

3. Address of Operator P.O. Box 18496  
Oklahoma City, OK 73154-0496

4. Well Location

Unit Letter F : 2081' feet from the North line and 1870' feet from the West line

Section 11 Township 16 S Range 36 E NMPM County Lea

11. Elevation (Show whether DR, RKB, RT, GR, etc.)  
3893' GR

## 12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

## NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐  
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐  
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐  
DOWNHOLE COMMINGLE ☐

## SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐  
COMMENCE DRILLING OPNS. ☐ P AND A ☐  
CASING/CEMENT JOB ☐

OTHER: Re-enter existing SWD well.

☒

OTHER:

☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Dear Sirs/Madams:

Please find the attached:

Work over procedure to re-enter well.

C-144(CLEZ) pit permit.

SWD-671-C Administrative order.

Spud Date:

05/09/1997

Rig Release Date:

06/05/1997

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE

Linda Weeks

TITLE Reg. Compliance Specialist

DATE 09/19/2008

Type or print name Linda Weeks

E-mail address: linda.weeks@chk.com

PHONE: (405)879-6854

For State Use Only

APPROVED BY:

[Signature]

TITLE

PETROLEUM ENGINEER

DATE

Conditions of Approval (if any):

OCT 17 2008



**Big Bertha 1-11**  
**Add Pay**  
**Lea County, New Mexico**

**Date:** May 6, 2008

**Location:** 2,081' FNL & 1,870' FWL Sec. 11-T16S-R36E

**Prod. Casing:** 4-1/2", flush joint 0-9,814'  
5-1/2", casing 9,814'-10,895'

**Tubing:** 2-3/8", 4.7#, N-80 plastic coated tubing with nickel plated Arrowset packer set at 9,758'

**PBTD/TD:** 10,500' / 10,900'

**Existing Perfs:** 9,830' – 9,871' Wolfcamp  
9,892' – 9,920' Wolfcamp  
10,095' – 10,118' Wolfcamp  
10,592' – 10,599' Wolfcamp

**Procedure**

1. Safety meetings are to be held prior to each day as well as prior to each major operation.
2. Prepare location. MIRU workover rig. ND WH. NU BOP. Unset 4-1/2" Arrowset packer, TOH with packer and 2-3/8" plastic coated injection tubing, LD. Unload rack and tally 2-3/8" work string.
3. PU 3-3/4" bit, DC's and 2-3/8" tubing and TIH to plug set at 10,500'. Circulate hole clean and then DO plug set at 10,500'. Continue TIH to CICR set at 10,675'. Circulate hole clean. TOH.
4. MIRU wireline unit. RIH and perforate Wolfcamp as follows

Wolfcamp	10,608' – 10,638'	30'	4 SPF	120 holes
Wolfcamp	10,592' – 10,599'	7'	4 SPF	28 holes
	10,592' – 10,638'	37'	4 SPF	148 holes

Correlate to CN-GR log run in 6/3/97. RDMO wireline unit.

5. TIH w/ 2-3/8" work string and 4-1/2" treating packer to bottom perf 10,638' and spot 15% HCl acid across Wolfcamp perfs (10,592' – 10,638'). PUH and set packer at 10,550'.
6. RU acid service. Acidize Wolfcamp (10,592' – 10,638') with 3,500 gals 15% HCl and 225 ball sealers (150%). Surge off balls. Unset packer and TOH, LD.
7. PU and TIH with 4-1/2" Arrowset injection packer and 2-3/8" plastic coated injection tubing to 9,750'. Circulate packer fluid. Set packer.
8. ND BOP. NU WH.
9. Return well to injection.

# New Mexico Energy, Minerals and Natural Resources Department

**Bill Richardson**  
Governor

**Joanna Prukop**  
Cabinet Secretary  
**Reese Fullerton**  
Deputy Cabinet Secretary

**RECEIVED**

**SEP 22 2008**  
**HOBBS (11)**

**Mark Fesmire**  
Division Director  
Oil Conservation Division



**Administrative Order SWD-671-C**  
**September 9, 2008**

## APPLICATION OF CHESAPEAKE OPERATING, INC. FOR PRODUCED WATER DISPOSAL, LEA COUNTY, NEW MEXICO

### ADMINISTRATIVE ORDER OF THE OIL CONSERVATION DIVISION

Under the provisions of Rule 701(B), Chesapeake Operating, Inc. (OGRID 147179) made application to the New Mexico Oil Conservation Division for permission to utilize for produced water disposal its SV Big Bertha Well No. 1 (API No. 30-025-33883) located 2081 feet from the North line and 1870 feet from the West line of Section 11, Township 16 South, Range 36 East, NMPM, Lea County, New Mexico.

#### THE DIVISION DIRECTOR FINDS THAT:

- (1) The application has been duly filed under the provisions of Rule 701(B) of the Division Rules and Regulations;
- (2) Satisfactory information has been provided that all offset operators and surface owners have been duly notified;
- (3) The applicant has presented satisfactory evidence that all requirements prescribed in Rule 701 will be met;
- (4) No objections have been received within the waiting period prescribed by said rule; and
- (5) The operator is in compliance with the Division's Rule 40.

#### IT IS THEREFORE ORDERED THAT:

Chesapeake Operating, Inc. is hereby authorized to utilize its SV Big Bertha Well No. 1 (API No. 30-025-33883) located 2081 feet from the North line and 1870 feet from the West line of Section 11, Township 16 South, Range 36 East, NMPM, Lea County,



New Mexico, in such manner as to permit the injection of produced water for disposal purposes into the Wolfcamp formation through perforations from 9,830 feet to 10,530 feet and through plastic-lined tubing set with a packer located within 100 feet of the top of the injection interval.

IT IS FURTHER ORDERED THAT:

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

As preparation for injection, the operator shall swab test all sets of new perforations to be used for injection and report the results of these swab tests to the Hobbs district on, or attached to, a sundry form.

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.

After installing injection tubing, the casing shall be pressure tested from the surface to the packer setting depth to assure casing integrity.

The wellhead injection pressure on the well shall be limited to **no more than 1,966 psi**. In addition, the injection well or system shall be equipped with a pressure limiting device in workable condition which shall, at all times, limit surface injection pressure to the maximum allowable pressure for this well.

The Director of the Division may authorize an increase in injection pressure upon a proper showing by the operator of said well that such higher pressure will not result in migration of the injected fluid from the injection formation. Such proper showing shall consist of a valid step-rate test run in accordance with and acceptable to this office.

The operator shall notify the supervisor of the Hobbs district office of the Division 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 immediately notify the supervisor of the Hobbs district office of the Division of the failure of the tubing, casing, or packer in said well and shall take such steps as may be timely and necessary to correct such failure or leakage.

PROVIDED FURTHER THAT, 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 water or (2) consistent with the requirements in this order, whereupon the Division may, after notice and hearing, terminate the injection authority granted herein.

The operator shall provide written notice of the date of commencement of injection to the Hobbs district office of the Division.

The operator shall submit monthly reports of the disposal operations on Division Form C-115, in accordance with Rule Nos. 706 and 1120 of the Division Rules and Regulations.

The injection 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 by the operator received by the Division prior to the termination date, may grant an extension thereof for good cause shown.



MARK E. FESMIRE, P.E.  
Director

MEF/wvjj

cc: Oil Conservation Division – Hobbs  
State Land Office – Oil, Gas, and Minerals Division