

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OCD-HOBBS

FORM APPROVED  
OMB No 1004-0137  
Expires March 31, 2007

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

5. Lease Serial No  
NMNM 110843

6. If Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE – Other instructions on page 2.**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator  
CHESAPEAKE OPERATING, INC.

ATTN: LINDA GOOD

3a. Address  
P O BOX 18496  
OKLAHOMA CITY, OK 73154-0496

3b. Phone No (include area code)  
405-767-4275

7. If Unit of CA/Agreement, Name and/or No.

8. Well Name and No  
YOUNG 11 FEDERAL 1 TANK BATTERY

9. API Well No  
30-025-37056

10. Field and Pool or Exploratory Area  
WILDCAT; WOLFCAMP

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
SECTION 2, T13S, R38E

11. Country or Parish, State  
LEA CO., NM

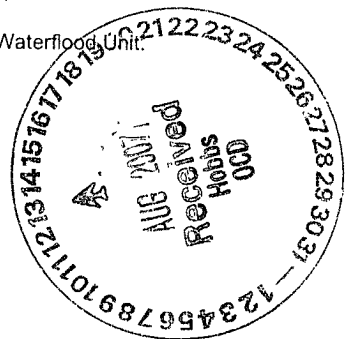
12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input checked="" type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation. Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

Chesapeake is truck hauling the salt water to the TBAU Waterflood Unit located 900' FSL & 1859' FEL of Section 22, T12S, R38E.

Attached is the Water Production & Disposal Information, Water Analysis Report, and the Order for the Trinity Burrus Abo Waterflood Unit.



(CHK PN 819523)

14. I hereby certify that the foregoing is true and correct  
Name (Printed/Typed)  
LINDA GOOD

Title FEDERAL REGULATORY ANALYST

Signature

*Linda Good*

Date 07/24/2007

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Title

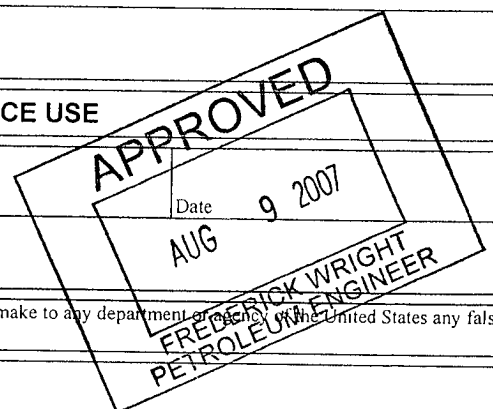
Office

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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.

(Instructions on page 2)

GWW



ATTACHMENT TO INCIDENT OF NON COMPLIANCE NUMBER KHT-067-07**WATER PRODUCTION & DISPOSAL INFORMATION**

In order to process your disposal request, the following information must be completed:

1. Names(s) of all formation(s) producing water on the lease.  
Wolf Camp
2. Amount of water produced from all formations in barrels per day.  
94 barrels
- ✓ 3. A Current water analysis of produced water from all zones showing at least the total dissolved solids, ph, and the concentrations of chlorides and sulfates.
4. How water is stored on the lease.  
500 bbl fiberglass tank
5. How water is moved to the disposal facility.  
trucking
6. Identify the Disposal Facility by:
  - A. Facility Operator Name Chesapeake Operating, Inc.
  - B. Name of facility of well name & number TBAU Waterflood Unit
  - C. Type of facility of well (WDW)(WIW), etc. Waterflood facility
  - D. Location by ¼, ¼, Section, Township and Range NE SW SE 900 FSL  
Sec. 22-12S-38E 1859 FEL
7. Attach a copy of the State issued permit for the Disposal Facility.

Submit all of the above required information to this office, 414 West Taylor, Hobbs, NM 88240, on a Sundry Notice Form 3160-5, 1 Original and 5 copies, within the required time frame. (This form may be used as an attachment to the Sundry Notice.) Call (505) 393-3612 if you need to further discuss this matter.

# Pro-Kem, Inc.

## WATER ANALYSIS REPORT

### SAMPLE

Oil Co. : **Cheasapeake Energy**  
 Lease : **Young**  
 Well No.: **11**  
 Location:  
 Attention:

Date Sampled : **27-June-2007**  
 Date Analyzed: **06-July-2007**  
 Lab ID Number: **Jul0607.003- 1**  
 Salesperson :  
 File Name : **Jul0607.003**

### ANALYSIS

- |                              |                |
|------------------------------|----------------|
| 1. Ph                        | 6.300          |
| 2. Specific Gravity 60/60 F. | 1.115          |
| 3. CACO3 Saturation Index    | @ 80F<br>@140F |

-0.237      Negligible  
 0.663      Moderate

#### Dissolved Gasses

- |                     | MG/L.          | EQ. WT. | *MEQ/L |
|---------------------|----------------|---------|--------|
| 4. Hydrogen Sulfide | 0              |         |        |
| 5. Carbon Dioxide   | 100            |         |        |
| 6. Dissolved Oxygen | Not Determined |         |        |

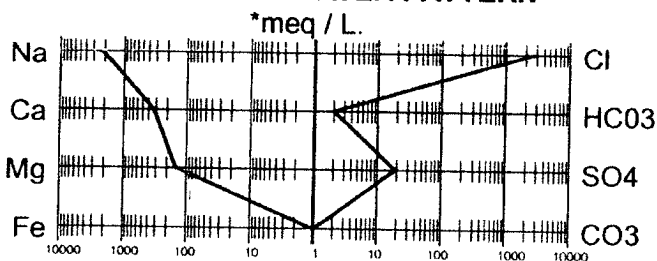
#### Cations

- |              |                    |                |          |          |
|--------------|--------------------|----------------|----------|----------|
| 7. Calcium   | (Ca++)             | 6,357          | / 20.1 = | 316.27   |
| 8. Magnesium | (Mg++)             | 1,707          | / 12.2 = | 139.92   |
| 9. Sodium    | (Na+) (Calculated) | 48,952         | / 23.0 = | 2,128.35 |
| 10. Barium   | (Ba++)             | Not Determined |          |          |

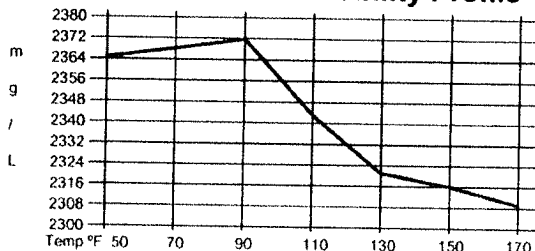
#### Anions

- |                                      |         |                |                    |          |
|--------------------------------------|---------|----------------|--------------------|----------|
| 11. Hydroxyl                         | (OH-)   | 0              | / 17.0 =           | 0.00     |
| 12. Carbonate                        | (CO3=)  | 0              | / 30.0 =           | 0.00     |
| 13. Bicarbonate                      | (HCO3-) | 122            | / 61.1 =           | 2.00     |
| 14. Sulfate                          | (SO4=)  | 900            | / 48.8 =           | 18.44    |
| 15. Chloride                         | (Cl-)   | 90,979         | / 35.5 =           | 2,562.79 |
| 16. Total Dissolved Solids           |         | 149,017        |                    |          |
| 17. Total Iron                       | (Fe)    | 10.00          | / 18.2 =           | 0.55     |
| 18. Manganese                        | (Mn++)  | Not Determined |                    |          |
| 19. Total Hardness as CaCO3          |         | 22,900         |                    |          |
| 20. Resistivity @ 75 F. (Calculated) |         |                | 0.038 Ohm · meters |          |

#### LOGARITHMIC WATER PATTERN



#### Calcium Sulfate Solubility Profile



#### PROBABLE MINERAL COMPOSITION

COMPOUND	*meq/L	X	EQ. WT. =	mg/L.
Ca(HCO3)2	2.00		81.04	162
CaSO4	18.44		68.07	1,255
CaCl2	295.83		55.50	16,419
Mg(HCO3)2	0.00		73.17	0
MgSO4	0.00		60.19	0
MgCl2	139.92		47.62	6,663
NaHCO3	0.00		84.00	0
NaSO4	0.00		71.03	0
NaCl	2,127.04		58.46	124,347

\* milliequivalents per Liter

*Kevin Byrne*

Kevin Byrne, Analyst