

NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

MISCELLANEOUS NOTICES

Submit this notice in triplicate to the Oil Conservation Commission or its proper agent before the work specified is to begin. A copy will be returned to the sender on which will be given the approval, with any modifications considered advisable, or the rejection by the Commission or agent, of the plan submitted. The plan as approved should be followed, and work should not begin until approval is obtained. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of notice by checking below:

NOTICE OF INTENTION TO TEST CASING SHUT-OFF	X	NOTICE OF INTENTION TO SHOOT OR CHEMICALLY TREAT WELL	
NOTICE OF INTENTION TO CHANGE PLANS		NOTICE OF INTENTION TO PULL OR OTHERWISE ALTER CASING	
NOTICE OF INTENTION TO REPAIR WELL		NOTICE OF INTENTION TO PLUG WELL	
NOTICE OF INTENTION TO DEEPEN WELL			

Lubbock, Texas

January 3, 1949

Place

Date

OIL CONSERVATION COMMISSION,
Santa Fe, New Mexico.

Gentlemen:

Following is a notice of intention to do certain work as described below at the _____
 Great Western Producers, Inc. State "S" Well No. 1 in NW/4 of SW/4
 Company or Operator Lease
 of Sec. 5, T. 13S, R. 32E, N. M. P. M., Caprock Field,
 Lea County.

FULL DETAILS OF PROPOSED PLAN OF WORK

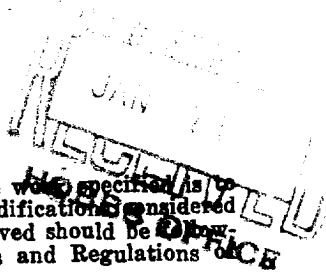
FOLLOW INSTRUCTIONS IN THE RULES AND REGULATIONS OF THE COMMISSION

Set 3013' of 5 1/2" casing @ 3027'. Cemented with 600 sax January 2, 1949.

Approved _____, 19____
 except as follows:

OIL CONSERVATION COMMISSION,
 By Ray. Yunker
 Title OIL & GAS INSPECTOR

Great Western Producers, Inc.
 Company or Operator
 By James S. Hampton
 Position Geologist
 Send communications regarding well to
 Name Great Western Producers, Inc.
 Address P. O. Box 191, Lubbock, Texas
Lubbock, Texas



THE UNIVERSITY OF CHICAGO

PHYSICS DEPARTMENT

PHYSICS 341

Problem Set 10

Due: Friday, November 12, 2010

1. A particle of mass m moves in a potential $V(x) = \frac{1}{2}kx^2$. The energy is E . Find the period of oscillation.

2. A particle of mass m moves in a potential $V(x) = \frac{1}{2}kx^2 + \frac{1}{4}bx^4$. Find the period of oscillation for small amplitudes.

3. A particle of mass m moves in a potential $V(x) = \frac{1}{2}kx^2 + \frac{1}{4}bx^4 + \frac{1}{6}cx^6$. Find the period of oscillation for small amplitudes.

4. A particle of mass m moves in a potential $V(x) = \frac{1}{2}kx^2 + \frac{1}{4}bx^4 + \frac{1}{6}cx^6 + \frac{1}{8}dx^8$. Find the period of oscillation for small amplitudes.

5. A particle of mass m moves in a potential $V(x) = \frac{1}{2}kx^2 + \frac{1}{4}bx^4 + \frac{1}{6}cx^6 + \frac{1}{8}dx^8 + \frac{1}{10}ex^{10}$. Find the period of oscillation for small amplitudes.

6. A particle of mass m moves in a potential $V(x) = \frac{1}{2}kx^2 + \frac{1}{4}bx^4 + \frac{1}{6}cx^6 + \frac{1}{8}dx^8 + \frac{1}{10}ex^{10} + \frac{1}{12}fx^{12}$. Find the period of oscillation for small amplitudes.

7. A particle of mass m moves in a potential $V(x) = \frac{1}{2}kx^2 + \frac{1}{4}bx^4 + \frac{1}{6}cx^6 + \frac{1}{8}dx^8 + \frac{1}{10}ex^{10} + \frac{1}{12}fx^{12} + \frac{1}{14}gx^{14}$. Find the period of oscillation for small amplitudes.

8. A particle of mass m moves in a potential $V(x) = \frac{1}{2}kx^2 + \frac{1}{4}bx^4 + \frac{1}{6}cx^6 + \frac{1}{8}dx^8 + \frac{1}{10}ex^{10} + \frac{1}{12}fx^{12} + \frac{1}{14}gx^{14} + \frac{1}{16}hx^{16}$. Find the period of oscillation for small amplitudes.

9. A particle of mass m moves in a potential $V(x) = \frac{1}{2}kx^2 + \frac{1}{4}bx^4 + \frac{1}{6}cx^6 + \frac{1}{8}dx^8 + \frac{1}{10}ex^{10} + \frac{1}{12}fx^{12} + \frac{1}{14}gx^{14} + \frac{1}{16}hx^{16} + \frac{1}{18}ix^{18}$. Find the period of oscillation for small amplitudes.

10. A particle of mass m moves in a potential $V(x) = \frac{1}{2}kx^2 + \frac{1}{4}bx^4 + \frac{1}{6}cx^6 + \frac{1}{8}dx^8 + \frac{1}{10}ex^{10} + \frac{1}{12}fx^{12} + \frac{1}{14}gx^{14} + \frac{1}{16}hx^{16} + \frac{1}{18}ix^{18} + \frac{1}{20}jx^{20}$. Find the period of oscillation for small amplitudes.

11. A particle of mass m moves in a potential $V(x) = \frac{1}{2}kx^2 + \frac{1}{4}bx^4 + \frac{1}{6}cx^6 + \frac{1}{8}dx^8 + \frac{1}{10}ex^{10} + \frac{1}{12}fx^{12} + \frac{1}{14}gx^{14} + \frac{1}{16}hx^{16} + \frac{1}{18}ix^{18} + \frac{1}{20}jx^{20} + \frac{1}{22}kx^{22}$. Find the period of oscillation for small amplitudes.

12. A particle of mass m moves in a potential $V(x) = \frac{1}{2}kx^2 + \frac{1}{4}bx^4 + \frac{1}{6}cx^6 + \frac{1}{8}dx^8 + \frac{1}{10}ex^{10} + \frac{1}{12}fx^{12} + \frac{1}{14}gx^{14} + \frac{1}{16}hx^{16} + \frac{1}{18}ix^{18} + \frac{1}{20}jx^{20} + \frac{1}{22}kx^{22} + \frac{1}{24}lx^{24}$. Find the period of oscillation for small amplitudes.

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