

# OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

## MISCELLANEOUS REPORTS ON WELLS

Submit this report in triplicate to the Oil Conservation Commission or its proper agent within ten days after the work specified is completed. It should be signed and sworn to before a notary public for reports on beginning drilling operations, results of shooting well, results of test of casing shut off, result of plugging of well, and other important operations, even though the work was witnessed by an agent of the Commission. Reports on minor operations need not be signed and sworn to before a notary public. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of report by checking below.

REPORT ON BEGINNING DRILLING OPERATIONS		REPORT ON REPAIRING WELL	
REPORT ON RESULT OF SHOOTING OR CHEMICAL TREATMENT OF WELL	<b>X</b>	REPORT ON PULLING OR OTHERWISE ALTERING CASING	
REPORT ON RESULT OF TEST OF CASING SHUT-OFF		REPORT ON DEEPENING WELL	
REPORT ON RESULT OF PLUGGING OF WELL			

6-12-50

Hobbs, New Mexico

Date

Place

OIL CONSERVATION COMMISSION,  
SANTA FE, NEW MEXICO

Gentlemen:

Following is a report on the work done and the results obtained under the heading noted above at the \_\_\_\_\_

Shell Oil Company

State "K"

Well No. 1

in the \_\_\_\_\_

Company or Operator

Lease

NE/4

of Sec. 36

, T. 20-S

, R. 36-E

, N. M. P. M.,

Eunice

Field,

Lea

County.

The dates of this work were as follows: \_\_\_\_\_

6-8-50

Notice of intention to do the work was (~~warrant~~) submitted on Form C-102 on 6-7-50 19\_\_\_\_

and approval of the proposed plan was (~~warrant~~) obtained. (Cross out incorrect words.)

### DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

Acidized below formation packer at 3768 feet with 2000 gals. 15% acid.

After recovering hole load flowed 10 bbls. oil, cut 0.1% water in 24

hours thru 27/64" choke.

Witnessed by B. P. Walsh Shell Oil Company Production Foreman  
Name Company Title

Subscribed and sworn before me this \_\_\_\_\_

I hereby swear or affirm that the information given above is true and correct.

26th day of June 1950

Name L. O. Storm *L. O. Storm*

Position District Exploitation Engineer

Representing Shell Oil Company  
Company or Operator

Notary Public

My commission expires My Commission Expires Sept. 16, 1950

Address Box 1457, Hobbs, New Mexico

Remarks:

JUN 28 1950

Date \_\_\_\_\_

Title \_\_\_\_\_

*Ray [Signature]*  
OIL & GAS INSURANCE

THE UNIVERSITY OF CHICAGO

PHYSICS DEPARTMENT

PHYSICS 350

LECTURE 10: THE HARMONIC OSCILLATOR

1. The harmonic oscillator is a fundamental system in physics.

2. The potential energy of a harmonic oscillator is given by  $V(x) = \frac{1}{2}kx^2$ .

3. The equation of motion for a harmonic oscillator is  $m\ddot{x} = -kx$ .

4. The general solution to the equation of motion is  $x(t) = A\cos(\omega t) + B\sin(\omega t)$ .

5. The energy of a harmonic oscillator is constant and is given by  $E = \frac{1}{2}kA^2$ .

6. The probability density of a harmonic oscillator is given by  $P(x) = \frac{1}{\sqrt{\sigma^2}} e^{-x^2/(2\sigma^2)}$ .

7. The expectation value of the position of a harmonic oscillator is zero.

8. The expectation value of the momentum of a harmonic oscillator is zero.