

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 its 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	<input checked="" type="checkbox"/>	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			

Monument, New Mexico

March 12, 1937

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

Amerada Petroleum Corporation Phillips Well No. 4 in NW $\frac{1}{4}$ NE $\frac{1}{4}$
 Company or Operator Lease
 of Sec. 1, T. 20, R. 36, N. M. P. M., Monument Field,
Lea County.

FULL DETAILS OF PROPOSED PLAN OF WORK

FOLLOW INSTRUCTIONS IN THE RULES AND REGULATIONS OF THE COMMISSION

12 $\frac{1}{2}$ " 40# 8-Thd. New Lapweld casing was set in this well at 191' and cemented by the Halliburton Method with 200 sacks.

Cement will be drilled out of the casing and the hole will be bailed dry and allowed to stand undisturbed for one hour. The bailer will then be run to bottom again to determine if any water has accumulated. If no water has accumulated the drilling will then be resumed.

Approved _____, 19____
 except as follows:

Amerada Petroleum Corporation

Company or Operator

By J. A. StarkeyPosition Farm Boss

Send communications regarding well to

Name J. A. StarkeyAddress Monument, New Mexico

OIL CONSERVATION COMMISSION,

By F. J. Leely

Title _____

1CR

1. The first part of the paper is devoted to the study of the

properties of the

operator T .

It is shown that the operator T is self-adjoint and positive definite. The eigenvalues of T are given by the formula

$$\lambda_k = \frac{1}{k^2}, \quad k = 1, 2, 3, \dots$$

The eigenfunctions of T are given by the formula

$$\phi_k(x) = \sqrt{2} \sin(kx), \quad k = 1, 2, 3, \dots$$

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The eigenfunctions $\phi_k(x)$ form a complete orthonormal system in the space $L^2(0, \pi)$.

2. The second part of the paper is devoted to the study of the

operator T in the space $L^2(0, \pi)$.

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