

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

Place

May 31, 1936

Date

OIL CONSERVATION COMMISSION,  
Santa Fe, New Mexico.

Gentlemen:

Following is a notice of intentiton to do certain work as described below at the

Amerada Petroleum Corporation State "T" Well No. 1 in SE 1/4 SW 1/4  
Company or Operator Lease  
of Sec. 25, T. 19, 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

8-5/8" ~~20#~~ 8-thd. New Electric welded casing was set in this well at 2484' and cemented by the Halliburton Method with 200 sacks of cement.

Casing and fittings will be tested with 1200# pump pressure and allowed to stand undistrubed for thirtymminutes. If no drop in pressure results then the cement will be drilled out of casing and the same test again applied and allowed to stand undisturbed for thirty minutes. If no drop in pressure results then drilling will be resumed.

DUPLICATE

JUN 6 1936

Approved \_\_\_\_\_, 19\_\_\_\_  
except as follows:

Amerada Petroleum Corporation  
Company or Operator

By J. A. Starkey  
Position Farm Boss

Send communications regarding well to

Name J. A. Starkey

Address Monument, New Mexico

OIL CONSERVATION COMMISSION,

By F. J. [Signature]  
Title Oil & Gas Inspector

DEPARTMENT OF CHEMISTRY

For the purpose of this experiment, the following procedure was followed: A solution of 1.00 g of the substance was prepared in 100 ml of water. The solution was then titrated with a standard solution of sodium hydroxide.

The titration curve shows a sharp increase in pH at the equivalence point, which is characteristic of a weak acid-strong base titration. The pH at the equivalence point is approximately 8.5.

The following table shows the pH values recorded during the titration:

Volume of NaOH (ml)	pH
0.0	3.5
1.0	3.8
2.0	4.2
3.0	4.8
4.0	5.5
5.0	6.5
6.0	7.5
7.0	8.5
8.0	9.0
9.0	9.2
10.0	9.3

From the titration curve, the pKa of the substance can be determined as the pH at the half-equivalence point, which is approximately 4.5.

The molar mass of the substance can be calculated from the titration data. The amount of NaOH required to reach the equivalence point is 7.0 ml of a 0.10 M solution, which corresponds to 0.0007 moles of NaOH.

Since the substance is a weak acid, it reacts with NaOH in a 1:1 molar ratio. Therefore, the amount of substance is also 0.0007 moles. The molar mass is calculated as 1.00 g / 0.0007 mol = 1428.6 g/mol.

The following table shows the calculated values for the substance:

Property	Value
pKa	4.5
Molar Mass (g/mol)	1428.6

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