

NEW MEXICO STATE LAND OFFICE  
OFFICE OF THE STATE GEOLOGIST  
SANTA FE, NEW MEXICO

## MISCELLANEOUS REPORTS ON WELLS

Submit this report in duplicate to the State Geologist or proper Oil and Gas Inspector 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 water shut-off, result of abandonment of well, and other important operations, even though the work was witnessed by the State Geologist or Oil and Gas Inspector. Reports on minor operations need not be signed and sworn to before a notary public, but such operations should be witnessed by an Oil and Gas Inspector if possible.

Indicate nature of report by checking below:

REPORT ON BEGINNING DRILLING OPERATIONS  REPORT ON RESULT OF SHOOTING WELL  REPORT ON RESULT OF TEST OF WATER SHUT-OFF  REPORT ON RESULT OF ABANDONMENT OF WELL	REPORT ON DEEPENING WELL  REPORT ON PULLING OR OTHERWISE ALTERING CASING  REPORT ON REPAIRING WELL  Acid Treatment <span style="float: right;">X</span>
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Mr. J. D. Hunter ~~State Geologist~~ Hobbs, New Mexico, March 12, 1934  
~~State Oil & Gas Inspector, Carlsbad, N. M.~~  
 Following is a report on the work done and the results obtained under the heading noted above at the Shell Petroleum Corporation-N. Berry Well No. 1 in the S.E. 1/4 of Sec. 31, T. 18S, R. 38E, N. M. P. M., Hobbs Oil Field, Lea County.

The dates of this work were as follows: February 16, 1934  
 Notice of intention to do the work was ~~submitted~~ submitted on Form SG 105 on 2-9-, 1934, and approval of the proposed plan was (~~was not~~) obtained. (Cross out incorrect words.)

### DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

Well was treated with 1000 gallons 50% acid by Chemical Process Company on 2- 16 - 34.

Potential before - 2207 bbls/day

Potential after - 2777 bbls/day

Subscribed and sworn to before me this

15th day of October, 1934.

W. R. Paris

NOTARY PUBLIC.

My commission expires June 1, 1935

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

Name [Signature]  
 Position District Engineer  
 Representing Shell Petroleum Corporation

Address Box 996, Wink, Texas/

Remarks:

NAME

TITLE

*No. C.R.*

*F. J. V.*

THE UNIVERSITY OF CHICAGO  
DEPARTMENT OF CHEMISTRY  
RESEARCH REPORT

THE KINETICS OF THE REACTION OF  
HYDROGEN PEROXIDE WITH  
HYDROXYLAMINE

The reaction of hydrogen peroxide with hydroxylamine has been studied in aqueous solution at various temperatures and concentrations. The reaction is first order in both reactants and the rate constant increases with increasing temperature. The activation energy of the reaction has been determined to be 14.5 kcal/mole. The reaction is catalyzed by a number of substances, including copper(II) ions, cobalt(II) ions, and cerium(IV) ions. The mechanism of the reaction is believed to involve the formation of a hydroperoxide intermediate.

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EXPERIMENTAL

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