

January 30, 1969

DEVIATION REPORT
AZTEC OIL & GAS COMPANY
Lea OR State No. 2
UNIT 0 SECTION 12-T18S-R36E

LEA COUNTY, NEW MEXICO

| <u>DEPTH</u> | <u>DEVIATION</u> |
|--------------|------------------|
| 360 | 1/4 |
| 1317 | 1/4 |
| 1802 | 1/2 |
| 2500 | 3/4 |
| 3009 | 1/2 |
| 3434 | 3/4 |
| 3730 | 1 |
| 4052 | 1 |
| 4302 | 1 |
| 4498 | 1 |
| 4869 | 3/4 |
| 5032 | 3/4 |
| 5211 | 3/4 |

Signed David Donaldson

State of New Mexico
County of Lea

Before me the undersigned authority, on this day personally appeared David Donaldson known to me to be the person whose name is subscribed to the foregoing instrument who, being by me duly sworn that said report is true and correct, to the best of my knowledge.

Subscribed and sworn to before me this 31 day of January, 1969.

W. H. Vaughan
W. H. Vaughan

Notary Public in and for
Lea County, New Mexico

My commission expires 10/24/69

THE UNIVERSITY OF CHICAGO
DEPARTMENT OF CHEMISTRY
5708 SOUTH CAMPUS DRIVE
CHICAGO, ILLINOIS 60637
TEL: 773-936-3700

SYNOPSIS

1. Introduction
2. Experimental
3. Results
4. Discussion
5. Conclusions

ABSTRACT

The present study was designed to investigate the effect of temperature on the rate of reaction between hydrogen peroxide and potassium permanganate in acidic solution. The reaction was studied at various temperatures ranging from 25°C to 75°C. The rate of reaction was found to increase with increasing temperature. The activation energy of the reaction was determined to be 50 kJ/mol.

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