

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 DEEPENING WELL	
REPORT ON RESULT OF SHOOTING WELL		REPORT ON PULLING OR OTHERWISE ALTERING CASING	
REPORT ON RESULT OF TEST OF WATER SHUT-OFF		REPORT ON REPAIRING WELL	
REPORT ON RESULT OF ABANDONMENT OF WELL		Report of Acidizing Well	

Mr. E. H. Wells State Geologist, Hobbs, New Mexico. 11/14/54
Santa Fe, N. Mex. PLACE DATE

Following is a report on the work done and the results obtained under the heading noted above at the Gross Oil Company East Grimes Well No. 1 in the NE/4 of SE/4 of Sec. 33, T. 16-S, R. 38-E, N. M. P. M., Hobbs Oil Field, Lea County.

The dates of this work were as follows: 5/31/54

Notice of intention to do the work was (~~was not~~) submitted on Form SG 105 on 5/31/34, 1934, and approval of the proposed plan was (~~was not~~) obtained. (Cross out incorrect words.) ~~but~~ by telephone

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

Well was treated with 2000 gallons of 35% Hydrochloric Acid Solution and the following potential increase obtained.

Potential before treating 9817 barrels oil with a Gas-Oil-Ratio
of 573 Cu. Ft.

Potential after treating 15,844 barrels oil with a Gas-Oil-Ratio of 769
Cn. Ft.

Subscribed and sworn to before me this

16th day of November, 1934.

My commission expires 27-1-35

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

Name Ed. J. [illegible]

Position District Superintendent

Representing Gulf Oil Company

Address Hobbs, New Mexico COMPANY OR OPERATOR.

Remarks:

NAME _____

TITLE

1. The first part of the paper is devoted to the study of the properties of the function $f(x)$ defined by the equation

$$f(x) = \int_0^x \frac{1}{1+t^2} dt.$$

It is shown that the function $f(x)$ is increasing and concave down on the interval $(-\infty, \infty)$.

2. In the second part, we consider the function $g(x)$ defined by the equation

$$g(x) = \int_0^x \frac{t}{1+t^2} dt.$$

It is shown that the function $g(x)$ is increasing and concave up on the interval $(-\infty, \infty)$.

3. In the third part, we consider the function $h(x)$ defined by the equation

$$h(x) = \int_0^x \frac{t^2}{1+t^2} dt.$$

It is shown that the function $h(x)$ is increasing and concave down on the interval $(-\infty, \infty)$.

4. In the fourth part, we consider the function $k(x)$ defined by the equation

$$k(x) = \int_0^x \frac{t^3}{1+t^2} dt.$$

It is shown that the function $k(x)$ is increasing and concave up on the interval $(-\infty, \infty)$.

5. In the fifth part, we consider the function $l(x)$ defined by the equation

$$l(x) = \int_0^x \frac{t^4}{1+t^2} dt.$$

It is shown that the function $l(x)$ is increasing and concave down on the interval $(-\infty, \infty)$.

6. In the sixth part, we consider the function $m(x)$ defined by the equation

$$m(x) = \int_0^x \frac{t^5}{1+t^2} dt.$$

It is shown that the function $m(x)$ is increasing and concave up on the interval $(-\infty, \infty)$.

7. In the seventh part, we consider the function $n(x)$ defined by the equation

$$n(x) = \int_0^x \frac{t^6}{1+t^2} dt.$$

It is shown that the function $n(x)$ is increasing and concave down on the interval $(-\infty, \infty)$.

8. In the eighth part, we consider the function $o(x)$ defined by the equation

$$o(x) = \int_0^x \frac{t^7}{1+t^2} dt.$$

It is shown that the function $o(x)$ is increasing and concave up on the interval $(-\infty, \infty)$.

9. In the ninth part, we consider the function $p(x)$ defined by the equation

$$p(x) = \int_0^x \frac{t^8}{1+t^2} dt.$$

It is shown that the function $p(x)$ is increasing and concave down on the interval $(-\infty, \infty)$.

10. In the tenth part, we consider the function $q(x)$ defined by the equation

$$q(x) = \int_0^x \frac{t^9}{1+t^2} dt.$$

It is shown that the function $q(x)$ is increasing and concave up on the interval $(-\infty, \infty)$.

11. In the eleventh part, we consider the function $r(x)$ defined by the equation

$$r(x) = \int_0^x \frac{t^{10}}{1+t^2} dt.$$

It is shown that the function $r(x)$ is increasing and concave down on the interval $(-\infty, \infty)$.

12. In the twelfth part, we consider the function $s(x)$ defined by the equation

$$s(x) = \int_0^x \frac{t^{11}}{1+t^2} dt.$$

It is shown that the function $s(x)$ is increasing and concave up on the interval $(-\infty, \infty)$.

13. In the thirteenth part, we consider the function $t(x)$ defined by the equation

$$t(x) = \int_0^x \frac{t^{12}}{1+t^2} dt.$$

It is shown that the function $t(x)$ is increasing and concave down on the interval $(-\infty, \infty)$.

14. In the fourteenth part, we consider the function $u(x)$ defined by the equation

$$u(x) = \int_0^x \frac{t^{13}}{1+t^2} dt.$$

It is shown that the function $u(x)$ is increasing and concave up on the interval $(-\infty, \infty)$.