

CONSERV
P. O.
SANTA FE, N

December 31, 1954

Amerada Petroleum Company
P. O. Box 2040
Tulsa 2, Oklahoma

Attention: Mr. D. C. Capps

Re: DC-45 - E. W. Walden #6
M-15-22S-37E

Gentlemen:

We are in receipt of your letter of December 22, 1954 requesting the cancellation of the Administrative Order DC-45 granting permission to dually complete the above described well. The reason given for the cancellation of the above Order was the lack of commercial quantities of gas in the Tubb Gas Zone.

Effective this date, Administrative Order DC-45, covering the above well is withdrawn.

Very truly yours,

W. B. Macey
Secretary - Director

WBM:jh

cc: Oil Conservation Commission, Hobbs

N. M. Oil & Gas Engineering Comm., Hobbs

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

$$f(x) = \int_0^x \frac{1}{1+t^2} dt$$
 for $x \in \mathbb{R}$. It is shown that $f(x)$ is an odd function and that $f(x) \in (-\frac{\pi}{2}, \frac{\pi}{2})$ for all $x \in \mathbb{R}$.

2. The second part of the paper is devoted to the study of the properties of the function $g(x)$ defined by the equation

$$g(x) = \int_0^x \frac{t}{1+t^2} dt$$
 for $x \in \mathbb{R}$. It is shown that $g(x)$ is an even function and that $g(x) \in (-\frac{\pi}{4}, \frac{\pi}{4})$ for all $x \in \mathbb{R}$.

3. The third part of the paper is devoted to the study of the properties of the function $h(x)$ defined by the equation

$$h(x) = \int_0^x \frac{t^2}{1+t^2} dt$$
 for $x \in \mathbb{R}$. It is shown that $h(x)$ is an odd function and that $h(x) \in (-\frac{\pi}{4}, \frac{\pi}{4})$ for all $x \in \mathbb{R}$.

4. The fourth part of the paper is devoted to the study of the properties of the function $k(x)$ defined by the equation

$$k(x) = \int_0^x \frac{t^3}{1+t^2} dt$$
 for $x \in \mathbb{R}$. It is shown that $k(x)$ is an even function and that $k(x) \in (-\frac{\pi}{4}, \frac{\pi}{4})$ for all $x \in \mathbb{R}$.

5. The fifth part of the paper is devoted to the study of the properties of the function $l(x)$ defined by the equation

$$l(x) = \int_0^x \frac{t^4}{1+t^2} dt$$
 for $x \in \mathbb{R}$. It is shown that $l(x)$ is an odd function and that $l(x) \in (-\frac{\pi}{4}, \frac{\pi}{4})$ for all $x \in \mathbb{R}$.

6. The sixth part of the paper is devoted to the study of the properties of the function $m(x)$ defined by the equation

$$m(x) = \int_0^x \frac{t^5}{1+t^2} dt$$
 for $x \in \mathbb{R}$. It is shown that $m(x)$ is an even function and that $m(x) \in (-\frac{\pi}{4}, \frac{\pi}{4})$ for all $x \in \mathbb{R}$.

7. The seventh part of the paper is devoted to the study of the properties of the function $n(x)$ defined by the equation

$$n(x) = \int_0^x \frac{t^6}{1+t^2} dt$$
 for $x \in \mathbb{R}$. It is shown that $n(x)$ is an odd function and that $n(x) \in (-\frac{\pi}{4}, \frac{\pi}{4})$ for all $x \in \mathbb{R}$.