

OIL CONSERVATION COMMISSION

P. O. BOX 2045

HOBBS, NEW MEXICO

Date March 6, 1956

TO:

Skelly Oil Co.

Box 38

Hobbs, New Mexico

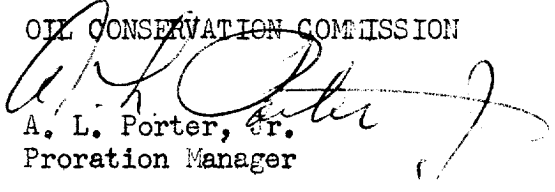
Gentlemen:

In accordance with the provisions of Commission Order No. R-737,
your H. O. Sims #4-D 3-23-37,
Lease and Well No. S-T-R,
which is producing from the Queen formation, has been
placed in the Langlie-Pattix Pool, and from this date forward
will be subject to the Commission's rules and regulations governing
that pool.

You are hereby instructed to file Form C-110 in quintuplicate with
the Hobbs office showing the change in pool designation.

All future Commission reports for this well must be filed under
the name of the pool in which it is now located.

OIL CONSERVATION COMMISSION


A. L. Porter, Jr.
Proration Manager

cc: OCC, Santa Fe
Transporter- **Shell**

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 $(-\infty, \infty)$. Moreover, the function $f(x)$ is bounded on the interval $(-\infty, \infty)$ and its range is the interval $(0, \pi/2)$. The function $f(x)$ is also shown to be continuous on the interval $(-\infty, \infty)$ and to have a horizontal asymptote at $y = \pi/2$ as $x \rightarrow \infty$.

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

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

It is shown that the function $g(x)$ is increasing and concave down on the interval $(-\infty, \infty)$. Moreover, the function $g(x)$ is bounded on the interval $(-\infty, \infty)$ and its range is the interval $(0, \pi/2)$.

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