

NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

Form C-110
Revised 7/1/55

(File the original and 4 copies with the appropriate district office)

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION
TO TRANSPORT OIL AND NATURAL GAS

Company or Operator TEXACO Inc. Lease St. of NM "EZ" NCT-1

Well No. 3 Unit Letter E S 13 T 22S R 35E Pool Jalmat

County Lea Kind of Lease (State, Fed. or Patented) State

If well produces oil or condensate, give location of tanks: Unit F S 13 T 22S R 35E

Authorized Transporter of Oil or Condensate Texas-New Mexico Pipe Line Co.

Address Box 1510, Midland, Texas
(Give address to which approved copy of this form is to be sent)

Authorized Transporter of Gas Phillips Petroleum Co.

Address Box 6666, Odessa, Texas Date Connected _____
(Give address to which approved copy of this form is to be sent)

If Gas is not being sold, give reasons and also explain its present disposition:

Reasons for Filing: (Please check proper box) New Well _____ ()

Change in Transporter of (Check One): Oil () Dry Gas () C'head () Condensate ()

Change in Ownership _____ () Other Name Change (✓)

Remarks: _____
(Give explanation below)

Change of Corporate name from The Texas Company
to TEXACO Inc. effective May 1, 1959

The undersigned certifies that the Rules and Regulations of the Oil Conservation Commission have been complied with.

Executed this the 30 day of April 19 59

By [Signature]

Approved _____ 19 _____

Title District Accountant

OIL CONSERVATION COMMISSION

Company The Texas Company

By [Signature]

Address P. O. Box 352

Title _____

Midland, Texas

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 of the paper, we consider the function $F(x)$ defined by the equation

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

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

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

$$G(x) = \int_0^x \frac{1}{1+t^2} dt + \int_0^x \frac{1}{1+t^4} dt + \int_0^x \frac{1}{1+t^6} dt.$$

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

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

$$H(x) = \int_0^x \frac{1}{1+t^2} dt + \int_0^x \frac{1}{1+t^4} dt + \int_0^x \frac{1}{1+t^6} dt + \int_0^x \frac{1}{1+t^8} dt.$$

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

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

$$I(x) = \int_0^x \frac{1}{1+t^2} dt + \int_0^x \frac{1}{1+t^4} dt + \int_0^x \frac{1}{1+t^6} dt + \int_0^x \frac{1}{1+t^8} dt + \int_0^x \frac{1}{1+t^{10}} dt.$$

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

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

$$J(x) = \int_0^x \frac{1}{1+t^2} dt + \int_0^x \frac{1}{1+t^4} dt + \int_0^x \frac{1}{1+t^6} dt + \int_0^x \frac{1}{1+t^8} dt + \int_0^x \frac{1}{1+t^{10}} dt + \int_0^x \frac{1}{1+t^{12}} dt.$$

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

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

$$K(x) = \int_0^x \frac{1}{1+t^2} dt + \int_0^x \frac{1}{1+t^4} dt + \int_0^x \frac{1}{1+t^6} dt + \int_0^x \frac{1}{1+t^8} dt + \int_0^x \frac{1}{1+t^{10}} dt + \int_0^x \frac{1}{1+t^{12}} dt + \int_0^x \frac{1}{1+t^{14}} dt.$$

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

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

$$L(x) = \int_0^x \frac{1}{1+t^2} dt + \int_0^x \frac{1}{1+t^4} dt + \int_0^x \frac{1}{1+t^6} dt + \int_0^x \frac{1}{1+t^8} dt + \int_0^x \frac{1}{1+t^{10}} dt + \int_0^x \frac{1}{1+t^{12}} dt + \int_0^x \frac{1}{1+t^{14}} dt + \int_0^x \frac{1}{1+t^{16}} dt.$$