

DUPLICATE**MEXICO OIL CONSERVATION COMMISSION**
Santa Fe, New Mexico**NOTICE OF INTENTION TO DRILL OR RECOMPLETE**

Notice must be given to the District Office of the Oil Conservation Commission and approval obtained before drilling or recompletion begins. If changes in the proposed plan are considered advisable, a copy of this notice showing such changes will be returned to the sender. Submit this notice in **QUINTUPPLICATE**. One copy will be returned following approval. See additional instructions in Rules and Regulations of the Commission.

Fort Worth 1, Texas
(Place)**August 10, 1955**
(Date)OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

Gentlemen:

You are hereby notified that it is our intention to commence the (Drilling) (~~Recompletion~~) of a well to be known as**TEXAS PACIFIC COAL AND OIL COMPANY**

(Company or Operator)

State of New Mexico "P" Ac. 1

(Lease)

Well No. **1**

in "P"

(Unit)

The well is

located **660** feet from the **North** line and **660** feet from the**West** line of Section **31**, T. **15-S**, R. **31-E**, NMPM.

(GIVE LOCATION FROM SECTION LINE)

Drikey Queen

Pool,

Chaves

County

If State Land the Oil and Gas Lease is No. **NM 375**

If patented land the owner is

Address

We propose to drill well with drilling equipment as follows: **Rotary Tools to 1200'****and Cable Tools to Total Depth**The status of plugging bond is **Required Bond on File**Drilling Contractor **Cactus Drilling Company**We intend to complete this well in the **Queen**formation at an approximate depth of **3,500'** feet.**CASING PROGRAM**

We propose to use the following strings of Casing and to cement them as indicated:

Size of Hole	Size of Casing	Weight per Foot	New or Second Hand	Depth	Sacks Cement
17"	13-3/8"	48#	New	300'	Circulated
13"	8-5/8"	32#	"	1400'	To Be Pulled
8-3/4"	5-1/2"	14#	"	3500'	150

If changes in the above plans become advisable we will notify you immediately.

ADDITIONAL INFORMATION (If recompletion give full details of proposed plan of work.)

Approved....., 19.....
Except as follows:

OIL CONSERVATION COMMISSION

By **W. H. Mankin**
Title **Engineer District 7**

Sincerely yours,

TEXAS PACIFIC COAL AND OIL COMPANY

(Company or Operator)

By **J. R. Teague**Position **Manager of Production**

Send Communications regarding well to

Name **J. R. Teague**Address **P. O. Box 2110****Fort Worth 1, Texas**

TEX. PACIFIC COAL AND OIL COM. Y

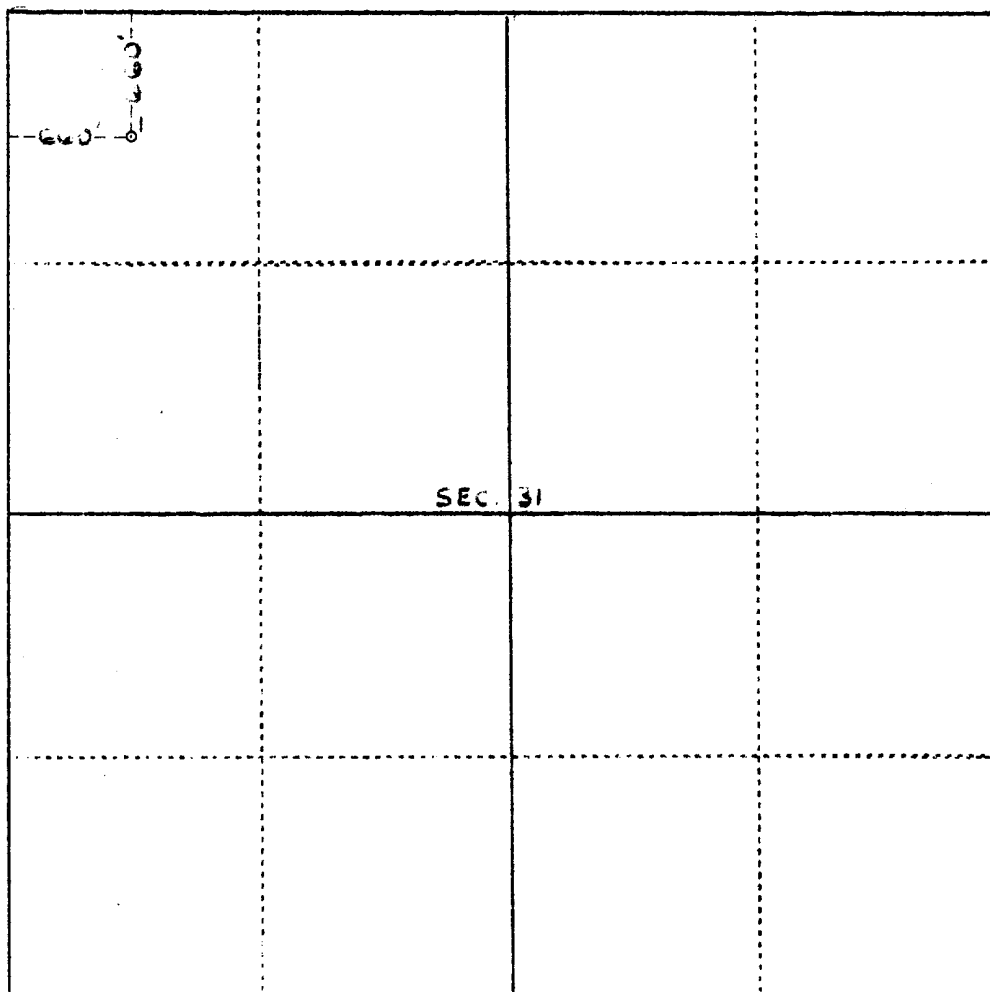
Section No. 31 Township No. 15-S Range No. 31-E

State NEW MEXICO

County CHAVES

Scale: 1 inch equals 1,000 feet

RECORDED IN BOOK 11 PAGE 27



Lessor State of New Mexico "P"

Lease No. NM-375

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 the function $f(x)$ is increasing and concave down.

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

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

for $x \in \mathbb{R}$. It is shown that the function $g(x)$ is increasing and concave down.

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

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

for $x \in \mathbb{R}$. It is shown that the function $h(x)$ is increasing and concave down.

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