

**NEW MEXICO OIL CONSERVATION COMMISSION**  
Santa Fe, New Mexico

**NOTICE OF INTENTION TO DRILL**

Notice must be given to the Oil Conservation Commission or its proper agent and approval obtained before drilling 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 triplicate. One copy will be returned following approval. See additional instructions in Rules and Regulations of the Commission.

Monument, New Mexico

March 3, 1937

OIL CONSERVATION COMMISSION,  
Santa Fe, New Mexico

Place

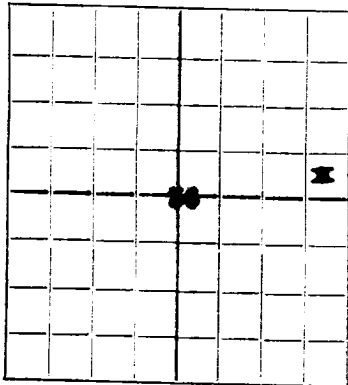
Date

Gentlemen:

You are hereby notified that it is our intention to commence the drilling of a well to be known as \_\_\_\_\_

Amarada Petroleum Corporation State "V" Well No. 3 in SE 1/4 NE 1/4  
Company or Operator Lease

of Sec. 36, T. 19, R. 36, N. M. P. M., Monument Field, Lea County,  
N.



AREA 640 ACRES  
LOCATE WELL CORRECTLY

The well is 2310' feet ~~100'~~ [S.] of the North line and 330' feet  
~~100'~~ [W.] of the East line of 36 - 19 - 36

(Give location from section or other legal subdivision lines. Cross out wrong directions.)

If state land the oil and gas lease is No. \_\_\_\_\_ Assignment No. \_\_\_\_\_

If patented land the owner is \_\_\_\_\_

Address \_\_\_\_\_

If government land the permittee is \_\_\_\_\_

Address \_\_\_\_\_

The lessee is Amarada Petroleum Corporation

Address Tulsa, Oklahoma

We propose to drill well with drilling equipment as follows: \_\_\_\_\_

**Rotary**

The status of a bond for this well in conformance with Rule 39 of the General Rules and Regulations of the Commission is as follows: \_\_\_\_\_

We propose to use the following strings of casing and to land or cement them as indicated:

Size of Hole	Size of Casing	Weight Per Foot	New or Second Hand	Depth	Landed or Cemented	Sacks Cement
<u>17 1/2"</u>	<u>12 1/2"</u>	<u>40#</u>	<u>New Lapweld</u>	<u>Minimum of 150' or 50' in red beds.</u>		<u>200</u>
<u>11"</u>	<u>8-5/8"</u>	<u>32#</u>	<u>New Seamless</u>	<u>2400' or thru Salt</u>		<u>600</u>
<u>7-7/8"</u>	<u>6-5/8"</u>	<u>20#</u>	<u>New Seamless</u>	<u>3800' or on top of Pay</u>		<u>100</u>

If changes in the above plan become advisable we will notify you before cementing or landing casing. We estimate that the first productive oil or gas sand should occur at a depth of about 3800' feet.

Additional information: \_\_\_\_\_

Approved MAY 1937 19\_\_\_\_  
except as follows: \_\_\_\_\_

Subject to special regulations for drilling and casing wells in this area

OIL CONSERVATION COMMISSION,

By J. A. Starkey

Title Oil & Gas Inspector

Sincerely yours,

Amarada Petroleum Corporation  
Company or Operator

By J. A. Starkey

Position Farm Boss

Send communication regarding well to

Name J. A. Starkey

Address Monument, New Mexico

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  $(0, \pi/2)$ .

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

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

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  $(0, \pi/2 + \pi/4)$ .

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

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

It is shown that the function  $h(x)$  is increasing and concave down on the interval  $(-\infty, \infty)$ . Moreover, the function  $h(x)$  is bounded on the interval  $(-\infty, \infty)$  and its range is the interval  $(0, \pi/2 + \pi/4 + \pi/6)$ .

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

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

It is shown that the function  $k(x)$  is increasing and concave down on the interval  $(-\infty, \infty)$ . Moreover, the function  $k(x)$  is bounded on the interval  $(-\infty, \infty)$  and its range is the interval  $(0, \pi/2 + \pi/4 + \pi/6 + \pi/8)$ .

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

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

It is shown that the function  $l(x)$  is increasing and concave down on the interval  $(-\infty, \infty)$ . Moreover, the function  $l(x)$  is bounded on the interval  $(-\infty, \infty)$  and its range is the interval  $(0, \pi/2 + \pi/4 + \pi/6 + \pi/8 + \pi/10)$ .

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

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

It is shown that the function  $m(x)$  is increasing and concave down on the interval  $(-\infty, \infty)$ . Moreover, the function  $m(x)$  is bounded on the interval  $(-\infty, \infty)$  and its range is the interval  $(0, \pi/2 + \pi/4 + \pi/6 + \pi/8 + \pi/10 + \pi/12)$ .