

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYLand Office Las Cruces
A. A. Corbin
Serial Number 029489
Lease or Permit Permit

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	<input checked="" type="checkbox"/>	SUBSEQUENT RECORD OF SHOOTING.....	
NOTICE OF INTENTION TO CHANGE PLANS.....		RECORD OF PERFORATING CASING.....	
NOTICE OF DATE FOR TEST OF WATER SHUT-OFF.....		NOTICE OF INTENTION TO PULL OR OTHERWISE ALTER CASING.....	
REPORT ON RESULT OF TEST OF WATER SHUT-OFF.....		NOTICE OF INTENTION TO ABANDON WELL.....	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....		SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO SHOOT.....		SUPPLEMENTARY WELL HISTORY.....	

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Fort Worth, Texas, December 16, 19 37

Following is a notice of intention to do work on land under permit described as follows:

New Mexico Lea County Approx. 9 miles SW of Vacuum area
(State or Territory) (County or Subdivision) (Field)

Well No. 1 NW 1/4 SW 1/4 Sec. 10 T-18-S. R-33-E N.M.P.M.
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

The well is located 1980 ft. N of S line and 660 ft. E of W line of sec. 10The elevation of the ground above sea level is 4050 ft., approximately.

DETAILS OF PLAN OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work.)

FORMATIONS EXPECTED

Top of Salt	1300'
Base of Salt	2600'
Top of Brown Lime	2900'

First productive oil or gas
expected at approximately 4300'.

Size
13" OD 40#
9-5/8" OD 40#
7" OD 24#

CASING (Approximately)

Set at	Cement
300'	275 sacks
1280'	350 "
4150' to 4300',	250 "

the exact depth to be designated later by us.

Drilling operations to be commenced immediately.

Approved _____
(Date)Title _____
GEOLOGICAL SURVEY

Address _____

Company THE TEXAS COMPANY

By _____

Title Assistant Division ManagerAddress Box 1720, Fort Worth, Texas

NOTE.—Reports on this form to be submitted in triplicate to the Supervisor for approval.

GOVERNMENT PRINTING OFFICE 6-7053

Bl cc Oil Conservation Commission, Hobbs, N. M.

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 $g(x)$ defined by the equation

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

It is shown that the function $g(x)$ is increasing on the interval $(-\infty, \infty)$.

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

$$h(x) = \int_0^x \frac{1}{1+t^2} dt - \frac{x}{1+x^2} + \frac{x^3}{1+x^2}$$

It is shown that the function $h(x)$ is increasing on the interval $(-\infty, \infty)$.

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

$$k(x) = \int_0^x \frac{1}{1+t^2} dt - \frac{x}{1+x^2} + \frac{x^3}{1+x^2} - \frac{x^5}{1+x^2}$$

It is shown that the function $k(x)$ is increasing on the interval $(-\infty, \infty)$.

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

$$l(x) = \int_0^x \frac{1}{1+t^2} dt - \frac{x}{1+x^2} + \frac{x^3}{1+x^2} - \frac{x^5}{1+x^2} + \frac{x^7}{1+x^2}$$

It is shown that the function $l(x)$ is increasing on the interval $(-\infty, \infty)$.

$$m(x) = \int_0^x \frac{1}{1+t^2} dt - \frac{x}{1+x^2} + \frac{x^3}{1+x^2} - \frac{x^5}{1+x^2} + \frac{x^7}{1+x^2} - \frac{x^9}{1+x^2}$$

It is shown that the function $m(x)$ is increasing on the interval $(-\infty, \infty)$.

$$n(x) = \int_0^x \frac{1}{1+t^2} dt - \frac{x}{1+x^2} + \frac{x^3}{1+x^2} - \frac{x^5}{1+x^2} + \frac{x^7}{1+x^2} - \frac{x^9}{1+x^2} + \frac{x^{11}}{1+x^2}$$

It is shown that the function $n(x)$ is increasing on the interval $(-\infty, \infty)$.

$$o(x) = \int_0^x \frac{1}{1+t^2} dt - \frac{x}{1+x^2} + \frac{x^3}{1+x^2} - \frac{x^5}{1+x^2} + \frac{x^7}{1+x^2} - \frac{x^9}{1+x^2} + \frac{x^{11}}{1+x^2} - \frac{x^{13}}{1+x^2}$$

It is shown that the function $o(x)$ is increasing on the interval $(-\infty, \infty)$.

$$p(x) = \int_0^x \frac{1}{1+t^2} dt - \frac{x}{1+x^2} + \frac{x^3}{1+x^2} - \frac{x^5}{1+x^2} + \frac{x^7}{1+x^2} - \frac{x^9}{1+x^2} + \frac{x^{11}}{1+x^2} - \frac{x^{13}}{1+x^2} + \frac{x^{15}}{1+x^2}$$

It is shown that the function $p(x)$ is increasing on the interval $(-\infty, \infty)$.

$$q(x) = \int_0^x \frac{1}{1+t^2} dt - \frac{x}{1+x^2} + \frac{x^3}{1+x^2} - \frac{x^5}{1+x^2} + \frac{x^7}{1+x^2} - \frac{x^9}{1+x^2} + \frac{x^{11}}{1+x^2} - \frac{x^{13}}{1+x^2} + \frac{x^{15}}{1+x^2} - \frac{x^{17}}{1+x^2}$$

It is shown that the function $q(x)$ is increasing on the interval $(-\infty, \infty)$.