

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.

Tulsa, OklahomaOctober 10, 1939

OIL CONSERVATION COMMISSION,
Santa Fe, New Mexico.
Gentlemen:

Place

Date

DUPLICATE

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

Gulf Oil Corporation**Mark Owen**Well No. 1 in NW SE

Company or Operator of Sec. 34, T. 21S, R. 37E, N. M. P.M., Lease Hardy Field, Les County.

N.

The well is 660 feet XX (S.) of the North line and 660 feet(E.) XX of the West line of NW SE

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

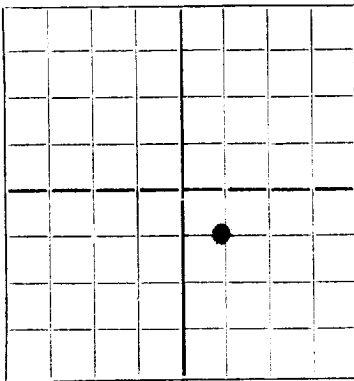
If state land the oil and gas lease is No. _____, Assignment No. _____

If patented land the owner is _____

Address _____

If government land the permittee is _____

Address _____

The lessee is **Gulf Oil Corporation**Address **Tulsa, Oklahoma**

AREA 640 ACRES
LOCATE WELL CORRECTLY

We propose to drill well with drilling equipment as follows:

Rotary tools - Contractor, Gulf Rotary Tools.

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
13-3/4"	10-3/4"	51#	New	260'	Cemented	250
7-7/8"	6"	16#	New	3620'	Cemented	350

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 3620 feet.

Additional information:

Approved OCT 10 1939, 19_____
except as follows:

Sincerely yours,

Gulf Oil Corporation

Company or Operator

By

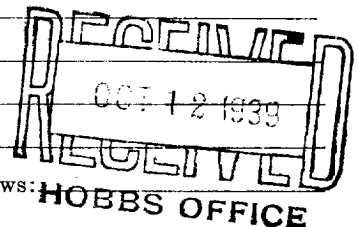
Position **General Superintendent**

Send communication regarding well to

Name **S. G. Sanderson**Address **Tulsa, Oklahoma**

OIL CONSERVATION COMMISSION

By

Title **OIL & GAS INSPECTOR**

1. The first part of the paper is devoted to the study of the

properties of the function $f(x)$ defined by

$$f(x) = \sum_{n=0}^{\infty} \frac{a_n}{n!} x^n$$

where a_n are the coefficients of the power series. It is shown that the function $f(x)$ is analytic in the whole plane and that it satisfies the differential equation

$$f'(x) = f(x) + x f''(x)$$

which is a particular case of the more general equation

$$f'(x) = f(x) + x f''(x) + \dots + x^n f^{(n+1)}(x)$$

where n is a natural number. It is shown that the function $f(x)$ is the unique solution of this equation which is analytic in the whole plane.

2. In the second part of the paper the function $f(x)$ is studied in the case when

$$a_n = \frac{1}{n!}$$

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