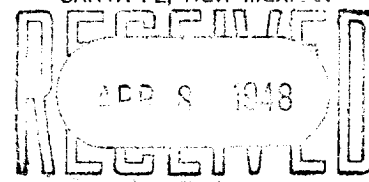


NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

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.

Astec, New Mexico.Place April 5th, 1948

Date

OIL CONSERVATION COMMISSION,
Santa Fe, New Mexico,

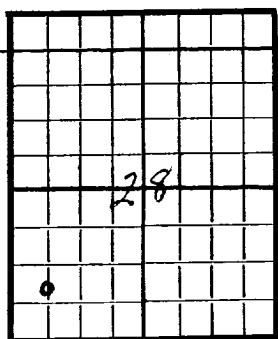
Gentlemen:

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

M. S. B. W. Co.W.T.M. COARTYWell No. 1 in SW1/4SW1/4

Company or Operator

Lease

of Sec 28, T 30 N., R 12 W., N. M., P. M. Pulcher Basin Field, San Juan County.

AREA 640 ACRES

LOCATE WELL CORRECTLY

The well is 970 feet (N.) (S.) of the South line and 660 feet (E.) (W.) of the West line of Sec 28, Twp 30 N. R 12 W. N.M.P.M.

(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 W.T. McCarty.Address Farmington, New Mexico.

If government land the permittee is _____

Address _____

The lessee is _____

Address _____

We propose to drill well with drilling equipment as follows: _____

Port Worth Super D. Spudder.

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: \$10,000.00 Blanket Bond. Form 39 AL.

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
18"	16"	60#	2nd hand	40'	landed.	
15"	13-3/8	50#	" "	250'	"	
12"	10-5/8	42.75	" "	700'	"	
10"	8-5/8	32#	" "	1200'	"	
8"	5 1/2"	14#	New	1560'	cemented.	50 sacks.

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 1560' feet.

Additional information: After cementing production string (5 1/2") propose to withdraw out side casing and mud well to surface with flush pit mud.

Approved 4-5, 1948
except as follows:

Sincerely yours,

Maddox-Silver-Rates and Whale.

Company or Operator

By Robert L. MaddoxPosition Manager and operator.

Send communications regarding well to

Name Robert L. Maddox.Address Box 182, Astec, New Mexico.

OIL CONSERVATION COMMISSION,

By Al GuirTitle Oil and Gas InspectorDistrict 3

Mathematical Analysis

Chapter 1: Introduction to Mathematical Analysis

1.1 Real Numbers and the Real Line

The real numbers are the foundation of mathematical analysis. They are defined as the completion of the rational numbers, ensuring that every Cauchy sequence of real numbers converges to a real number. This property is known as the completeness of the real numbers.

Definition 1.1

A set S of real numbers is called a *closed interval* if it contains all its limit points. The closed interval $[a, b]$ is the set of all real numbers x such that $a \leq x \leq b$.

The real line is a complete metric space with the standard Euclidean metric.

Let x_n be a sequence of real numbers. Then x_n converges to a real number L if and only if for every $\epsilon > 0$, there exists a natural number N such that for all $n > N$, $|x_n - L| < \epsilon$.

The limit of a sequence x_n is denoted by $\lim_{n \rightarrow \infty} x_n = L$.

Let $f: D \rightarrow \mathbb{R}$ be a function defined on a domain $D \subseteq \mathbb{R}$. The function f is said to be continuous at a point $a \in D$ if $\lim_{x \rightarrow a} f(x) = f(a)$.

The function f is continuous on a set S if it is continuous at every point in S .

Let $f: D \rightarrow \mathbb{R}$ be a function. The function f is differentiable at a point $a \in D$ if the limit

$$\lim_{h \rightarrow 0} \frac{f(a+h) - f(a)}{h}$$

exists. The limit is called the derivative of f at a , denoted by $f'(a)$.

The derivative of a function f at a point a is denoted by $f'(a)$.

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