

OIL CONSERVATION COMMISSION

P. O. BOX 2045

HOEBS, NEW MEXICO

Date March 6, 1937

TO:

Oil and Gas Corp.

Lease No. 107

Hoebs, New Mex.

Gentlemen:

In accordance with the provisions of Commission Order No. R-767,
your Lease State "O" L. H. 33-22-37,
Lease and Well No. S-T-R,

which is producing from the Keokuk formation, has been
placed in the Langdon-Middle Pool, and from this date forward
will be subject to the Commission's rules and regulations governing
that pool.

You are hereby instructed to file Form C-110 in quintuplicate with
the Hobbs office showing the change in pool designation.

All future Commission reports for this well must be filed under
the name of the pool in which it is now located.

OIL CONSERVATION COMMISSION

A. L. Porter, Jr.
A. L. Porter, Jr.
Proration Manager

cc: OCC, Santa Fe
Transporter- Well Pipe Line Corp.

WILSON'S THEOREM

Let p be a prime.

Then $(p-1)! \equiv -1 \pmod{p}$.

Proof. We will prove this by induction on p .

Base:

For $p=2$, we have $(2-1)! = 1 \equiv -1 \pmod{2}$.

Inductive step: Assume the theorem holds for all primes $p < p_0$.

Let p_0 be a prime. We will show that the theorem holds for p_0 .

Let a be an integer.

Then $a^{p-1} \equiv 1 \pmod{p}$ if a is not divisible by p .

By Fermat's Little Theorem, $a^{p-1} \equiv 1 \pmod{p}$ if a is not divisible by p .

Let a be an integer not divisible by p . Then $a^{p-1} \equiv 1 \pmod{p}$.

Let a be an integer divisible by p . Then $a^{p-1} \equiv 0 \pmod{p}$.

Let a be an integer.

Then $a^{p-1} \equiv 1 \pmod{p}$ if a is not divisible by p .

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Let a be an integer.

Let a be an integer not divisible by p .

Let a be an integer divisible by p .