

NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

MISCELLANEOUS REPORTS ON WELL

Submit this report in triplicate to the Oil Conservation Commission or its proper agent within ten days after the work specified is completed. It should be signed and sworn to before a notary public for reports on beginning drilling operations, results of shooting well, results of test of casing shut-offs, result of plugging of well, and other important operations, even though the work was witnessed by an agent of the commission. Reports on minor operations need not be signed and sworn to before a notary public. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of report by checking below:

REPORT ON BEGINNING DRILLING OPERATIONS		REPORT ON REPAIRING WELL	
REPORT ON RESULT OF TEST OF CASING SHUT-OFF CHEMICAL TREATMENT OF WELL	XXXX	REPORT ON PULLING OR OTHERWISE ALTERING CASING	
REPORT ON RESULT OF TEST OF CASING SHUT-OFF		REPORT ON DEEPENING WELL	
REPORT ON RESULT OF PLUGGING OF WELL			

Odessa, Texas

February 21, 1939

Place

Date

OIL CONSERVATION COMMISSION,

Santa Fe, New Mexico.

Gentlemen:

DUPLICATE

Following is a report on the work done and the results obtained under the heading noted above at the

Phillips Petroleum Company

Santa Fe B-1608

Well No. 21

in the

Company or Operator

Lease

NE/4 NE/4

of Sec.

33

T. 17-S

R. 35-E

N. M. P. M.,

Vacuum

Field.

Lea

County

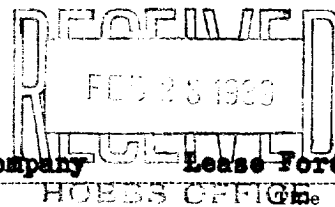
The dates of this work were as follows:

February 20, 1939

Notice of intention to do the work was ~~submitted~~ submitted on Form C-102 on February 20, 1939 and approval of the proposed plan was ~~obtained~~ obtained. (Cross out incorrect words)

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

T. D. 4615 Lime. Introduced 1000 gal. Dowell XX without loading hole. Acidized pay formation from 4122' to total depth. Flushed tubing with 14 bbls. oil & swabbed 4 times to 1800' and well started flowing. Flowed 60 bbls. oil and acid in two hours into test tank & turned production into stock tanks. Flowed 152 bbls. oil, no water in 4 hours. Gas measured 328 MCF daily. Gas-Oil ratio 360.



Witnessed by L. L. Smith
Name

Phillips Petroleum Company
Company Lease Foreman
HOES OFFICE

Subscribed and sworn to before me this

I hereby swear or affirm that the information given above is true and correct.

21st day of February, 1939

Name *R. D. Gashrough Jr.*

Position District Chief Clerk

Representing Phillips Petroleum Company
Company or Operator

My Commission expires 6-31

Address Drawer 811, Odessa, Texas

Remarks:

R. D. Gashrough
Name
OIL & GAS INSPECTOR

Title

Mathematical Induction

Prove that

$$1 + 2 + 3 + \dots + n = \frac{n(n+1)}{2}$$

Step 1: Base Case
Let $n=1$. Then the left-hand side is 1 and the right-hand side is $\frac{1(1+1)}{2} = 1$. So the statement is true for $n=1$.

Step 2: Inductive Step
Assume the statement is true for $n=k$. We need to show it is true for $n=k+1$.

$$\begin{aligned} 1 + 2 + 3 + \dots + k + (k+1) &= \frac{k(k+1)}{2} + (k+1) \\ &= \frac{k(k+1) + 2(k+1)}{2} \\ &= \frac{(k+1)(k+2)}{2} \end{aligned}$$

Therefore, the statement is true for $n=k+1$. By the principle of mathematical induction, the statement is true for all $n \in \mathbb{N}$.

Step 3: Conclusion
The statement $1 + 2 + 3 + \dots + n = \frac{n(n+1)}{2}$ is true for all $n \in \mathbb{N}$.

Step 4: Final Statement
The statement is true for all $n \in \mathbb{N}$.

Step 5: Final Statement
The statement is true for all $n \in \mathbb{N}$.

Step 6: Final Statement
The statement is true for all $n \in \mathbb{N}$.

Step 7: Final Statement
The statement is true for all $n \in \mathbb{N}$.

Step 8: Final Statement
The statement is true for all $n \in \mathbb{N}$.

Step 9: Final Statement
The statement is true for all $n \in \mathbb{N}$.

Step 10: Final Statement
The statement is true for all $n \in \mathbb{N}$.

Step 11: Final Statement
The statement is true for all $n \in \mathbb{N}$.

Step 12: Final Statement
The statement is true for all $n \in \mathbb{N}$.

Step 13: Final Statement
The statement is true for all $n \in \mathbb{N}$.

Step 14: Final Statement
The statement is true for all $n \in \mathbb{N}$.

Step 15: Final Statement
The statement is true for all $n \in \mathbb{N}$.

Step 16: Final Statement
The statement is true for all $n \in \mathbb{N}$.

Step 17: Final Statement
The statement is true for all $n \in \mathbb{N}$.

Step 18: Final Statement
The statement is true for all $n \in \mathbb{N}$.