

NEW MEXICO OIL CONSERVATION COMMISSION
MISCELLANEOUS REPORTS ON WELLS
(Submit to appropriate District Office as per Commission Rule 1106)

COMPANY Carper Drilling Company, Inc. Artesia, New Mexico
(Address)

LEASE Carper - Superior "A" WELL NO. 2 UNIT N S 30 T 13 S R 32 E
DATE WORK PERFORMED 7-26 & 7-29-57 POOL Caprock Queen

This is a Report of: (Check appropriate block) ☒ Results of Test of Casing Shut-off
☐ Beginning Drilling Operations ☐ Remedial Work
☐ Plugging ☐ Other Perforating

Detailed account of work done, nature and quantity of materials used and results obtained.

On July 26, 1957, at a total depth of 3089' we ran 76 lbs., 3090.98', of 4 1/2" J-55 9.5' seamless casing, landed @ 3088.50', and cemented with 100 sac, 50 - 50 ppmix with 2% gel added preceded by 20 bbls. of lime water. Plug down at 8:25 A. M., 7-26-57. Pipe was rotated to bottom and during cementing. A combination guide and float shoe was used and 3 centralizers were used, 1 @ 3084', 1 @ 3046', 1 @ 3006', Halliburton did the cementing.

PERFORATING: Jet perforated with 44 holes 3057' to 3068'. Running tubing; prep to swab on 7-29-57

FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY

Original Well Data:

DF Elev. _____ TD _____ PBD _____ Prod. Int. _____ Compl Date _____
Tbng. Dia _____ Tbng Depth _____ Oil String Dia _____ Oil String Depth _____
Perf Interval (s) _____
Open Hole Interval _____ Producing Formation (s) _____

RESULTS OF WORKOVER:

	BEFORE	AFTER
Date of Test	_____	_____
Oil Production, bbls. per day	_____	_____
Gas Production, Mcf per day	_____	_____
Water Production, bbls. per day	_____	_____
Gas-Oil Ratio, cu. ft. per bbl.	_____	_____
Gas Well Potential, Mcf per day	_____	_____

Witnessed by A. L. Pierce Carper Drilling Company, Inc.
(Company)

OIL CONSERVATION COMMISSION

Name E. J. Fischer
Title _____
Date _____

I hereby certify that the information given above is true and complete to the best of my knowledge.

Name Stanley Carper
Position Vice-President
Company Carper Drilling Company, Inc.

1. The first part of the paper is devoted to the study of the properties of the function $f(x)$ defined by the equation

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

for $x \in \mathbb{R}$.

It is well known that

$$f(x) = \arctan x$$

$$f'(x) = \frac{1}{1+x^2}$$

and

$$f(0) = 0$$

It follows that

the function $f(x)$ is strictly increasing and concave down on \mathbb{R} . Moreover, $f(x) \rightarrow -\frac{\pi}{2}$ as $x \rightarrow -\infty$ and $f(x) \rightarrow \frac{\pi}{2}$ as $x \rightarrow \infty$. The function $f(x)$ is also odd, i.e., $f(-x) = -f(x)$.

Let us now consider the function $g(x) = f(x) + f(x^2)$.

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It is well known that $f(x) = \arctan x$ and $f'(x) = \frac{1}{1+x^2}$.