MEMORANDUM

Des Moines, Iowa
April 29, 1935

TO: E. S. Boudinot

FROM: A. C. Tester

SUBJECT: Results of pumping test of Rolfe well, April 25th and 26th.

As reported to you verbally Friday afternoon, the 24-hour pumping test on the Rolfe well, following setting of screen and packing of gravel, was started at 2:00 P.M., April 25th, and completed at 2:00 P.M., April 26th. A cylinder pump was installed after the turbine pump failed to operate properly. A complete statement of condition of equipment and the results of pumping are given below:

Total Drilled Depth: 120 feet. Operating depth at 102 feet. Concrete plug 102 feet to 103 feet.

Screen: Base at 101 feet, top at 87 feet, packed in gravel.

Casing: 30" O.D. from 0 to 12 feet, 20" O.D. from plus 2½ feet to 58½ feet, 8" O.D. from plus 2½ feet to 87 feet; Screen, 8" O.D. from 87 to 101 feet.

Pump: Cylinder pump, 5¾"x24" I.D., drop pipe 6" O.D. Bottom of cylinder set at 86 feet, no drop pipe below cylinder. Pump rod 2" pipe. Pumped by drilling jerk line.

Gauge of Water Depth: Electric circuit with light bulb.

Gauge of Volume: A 65 gallon barrel.

Time	GPM	SPM	Water Head	Condition of Water	Remarks
2:00 PM	0	0	25'	muddy	
2:00	35	26	25'	"	
2:01	15	26	86'	"	Pump sucking air
2:15	15	26	86'	"	" " "
2:30	15	26	86'	"	" " "
2:45	15	26	86'	"	" " "
3:00	15	26	86'	Clearing	" " "
3:15	15	26	86'	"	" " "
3:30	15	26	86'	"	" " "
3:45	15⅓	26	86'	"	" " "

Time	GPM	SPM	Water Head	Condition of Water	Remarks
4:00 PM	15½	26	86'	Milky	Pump sucking air
4:15	15½	26	86'	"	" "
4:30	15½	26	86'	"	" "
5:00	16	26	86'	Clear	" "
5:30	16	26	86'	"	" "
6:00	16	26	86'	"	" "
6:30	16½	26	86'	"	" "
7:00	17	26	86'	"	" "
7:30	17	26	86'	"	" "
8:00	17½	26	86'	"	" "
8:30	18	26	86'	"	" "
9:00	18	26	86'	"	" "
9:30	18	26	86'	"	" "
10:00	18	26	86'	"	" "
10:30	19	26	86'	"	" "
11:00	19	26	86'	"	" "
11:30	19	26	86'	"	" "
12:00 M	19	26	86'	"	" "
12:30 AM	19	26	86'	"	" "
1:00	19	26	86'	"	" "
1:30	19	26	86'	"	" "
2:00	19	26	86'	"	" "
2:30	19	26	86'	"	" "
3:00	19	26	86'	"	" "
3:30	19	26	86'	"	" "
4:00	19	26	86'	"	" "
4:30	19	26	86'	"	" "
5:00	19	26	86'	"	" "
5:30	19	26	86'	"	" "
6:00	19	26	86'	"	" "
6:30	19	26	86'	"	" "
7:00	19	26	86'	"	" "
7:30	19	26	86'	"	" "
8:00	19	26	86'	"	" "
9:00	19	38	86'	Slightly milky	" "
9:30	19	38	86'	Clear	" "
10:00	19	26	86'	"	" "
10:30	19	26	86'	"	" "
11:00	19	26	86'	"	" "
12:00 Noon	19	26	86'	"	" "
1:00	19	26	86'	"	" "
1:30	19	26	86'	"	" "
2:00	19	26	86'	"	" "

Stopped pumping at 2:00 P.M., April 26th.
Time pumped, 24 hours continuously.

CC A. E. Michal

A. C. Tester
Supervisor, Proj. S-E6-1085