

5650

Town: Edgewood { NE }
{ SW } : County Delaware
NW 1/4 NE 1/4 sec. 2 T 90 N., R. 5 W. Twp.

Owner	Town of Edgewood	Address	
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[illegible]

Contractor *Hoe & Ames* Address *Lincoln, Iowa*

Drillers. *Lid Martin & Jim Scott*

Drilling dates Aug 29 to Sept 12, 1952

Well data:
Elevations: Drilling curb feet; Land surface 1165 feet

Determined by *Hand Level*

Topographic position *island*

Total depth: Reported 269 feet, Measured _____ feet

Drilling method *Cable tool*

Hole and casing data 10" csg from 1sd to 24' - 10" open hole to f.d.
0" cemented from 25' to 1sd.

Original depth to water	above ft. below	Date
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Original elevation of water level _____ ft.; Source of data _____

Sources of water: Principal *Silurian dolomite* ; Others

NW, NW, NE Sec. 2, 90 N., 5 W.
E1. 116 S'

Results of Pumping Test on Edgewood Town Well (1952)
September 16, 1952

Temperature of water: 51 °F.

Pump set @ 234'

<u>Minutes since pumping started</u>	<u>Depth to water in ft. below measuring point</u>	<u>GPM</u>	<u>Remarks</u>
0	76.73		Pump started at 9:20 a.m.
1 sec. → 0.5	78.35 → 88.65		
2	109.87		Water cloudy
3	117.50		
4	122.04	77.5	Water cloudy
5	126.37	77.5	
6	130.16	77.5	
7	134.25	77.5	
8	138.07	77.5	
10	143.42	77.5	
12	146.81	77.5	
14	149.58	77.5	
16	151.40	77.5	
18	152.96	77.5	
20	153.91	77.5	
22	154.39	77.5	
24	155.72	77.5	
26	156.20	77.5	
28	154.81	77.5	
30	160.25	77.5	
35	165.72	77.5	
40	169.48	77.5	
45	171.49	77.5	
50	172.76	77.5	
55	173.63	77.5	Water clearing
60	174.37	77.5	Pumping rate increased
70	175.62	94	
80	176.35	94	
90	177.20	94	
100	177.84	94	
110	178.20	94	
120	178.89	94	Water clear
150	180.00	94	
177	180.80	94	
240	180.87	94	
270	181.52	94	
300	181.30	94	
334	181.23	94	
360	181.17	94	
390	181.27	94	
420	181.80	94	
450	181.59	94	
480	180.69	94	
481			Pump off at 5:21 p.m.

Recovery Measurements

<u>Minutes since pumping stopped</u>	<u>Depth to water in ft. below measuring point</u>
1	140.00
2	123.10
3	111.12
4	101.40
5	94.22
6	89.70
7	86.94
8	85.33
9	84.19
10	83.48
11	83.12
12	82.76
13	82.51
14	82.17
16	81.78
18	81.47
20	81.22
22	81.02
24	80.81
26	80.64
28	80.54
30	80.42
35	80.17
40	79.96
45	79.80
50	79.71
55	79.57
60	79.50
65	79.40
70	79.33

$t_{1/2}$ time since pumping started
 $t_{1/2}$ time since pumping stopped

Initial water level
76.73 feet

76 77 78

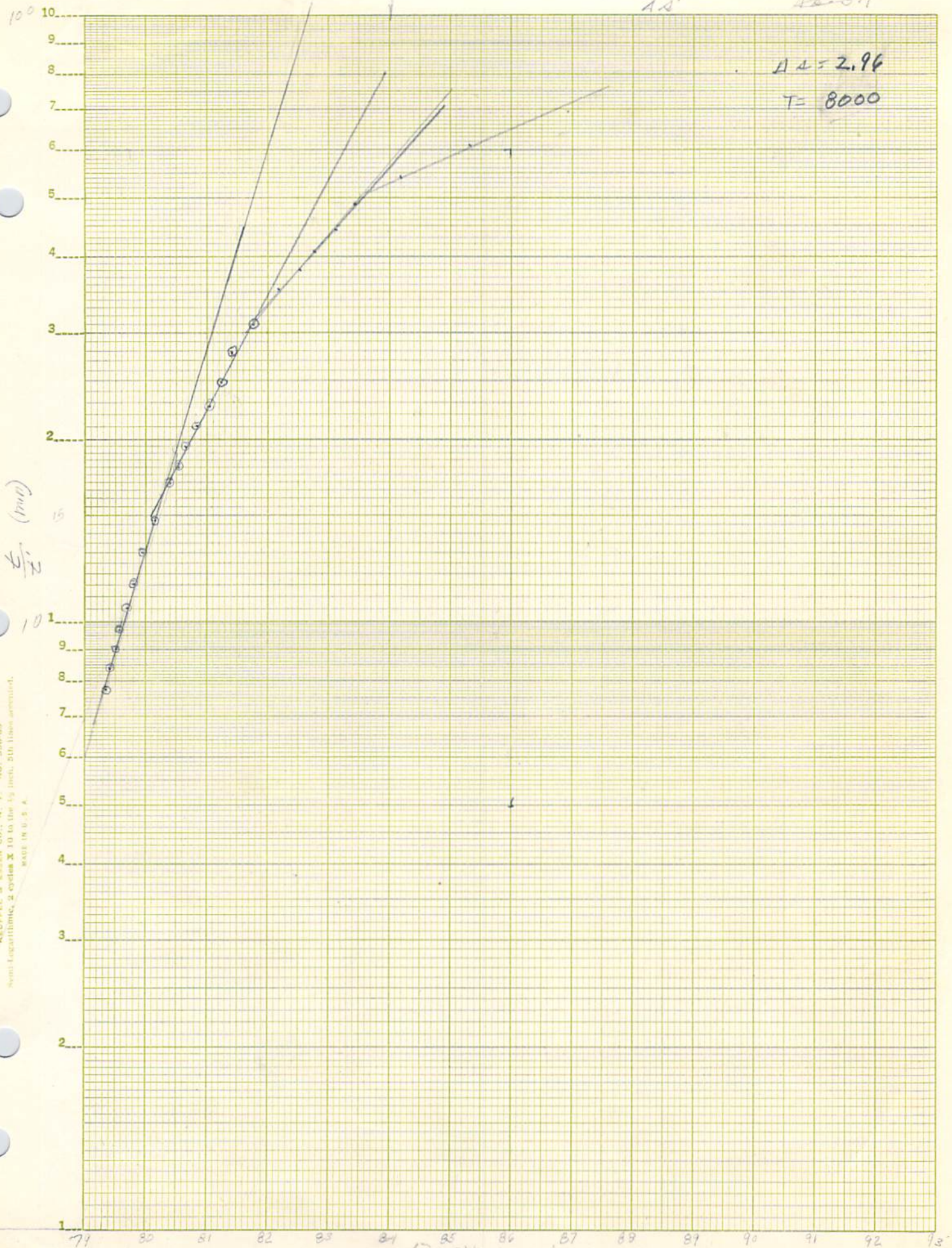
Edgewood (1962)
Recovery

Average $Q = 92 \text{ gpm}$
 $T = 264 \text{ ft}$
 AA

$T = 6550$
 $AA = 3.7$

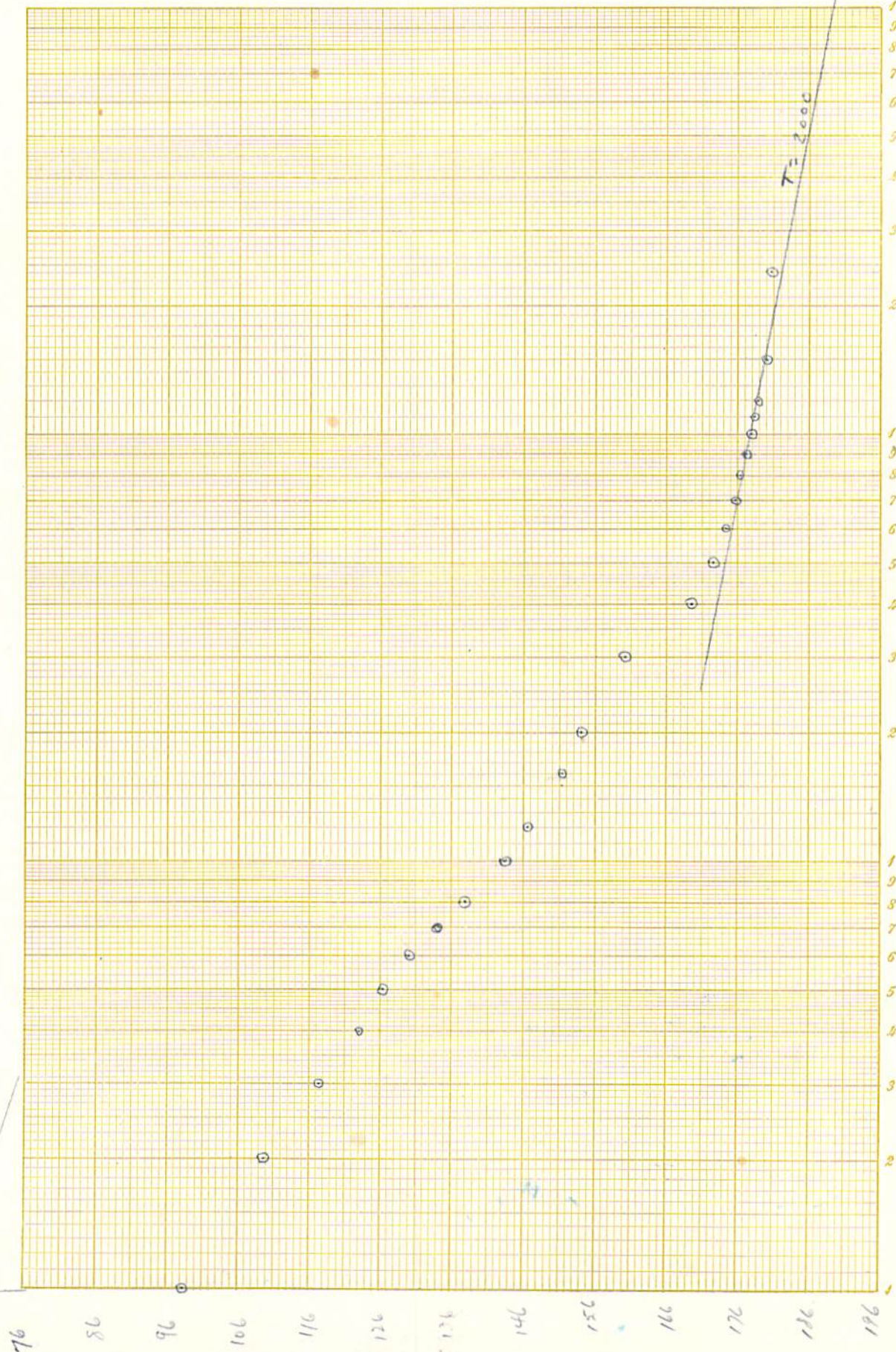
$AA = 2.96$

$T = 8000$



(true)
 s/n

Depth to water in feet



Production data:

Date _____

Static depth to water

76.23

Measuring point

1' abv 1st

Pumping level

181.50

at

94

g.p.m. for

8

hours

Specific capacity

g.p.m. per ft. drawdown; Temperature

°F.

Pump data: Type pump

turbine

Column Dia.

4"

Length

234'

Cylinder or bowls: Dia.

4"

Length

Suction pipe

Power

gas engine

Airline

Estimated rate of production:

g.p.m. for

hrs. a day

Use of water

WATER ANALYSES (in parts per million)

Date samples

Sampled by

Total solids

Insoluble matter

Alkalinity (Meo)

Alkalinity (Phn)

pH

 $\text{Fe}_2\text{O}_3 + \text{Mn}_2\text{O}_3 + \text{Al}_2\text{O}_3$

Alkali as sodium

Calcium

Magnesium

Iron (unfiltered)

Manganese

Nitrate

Fluoride

Chloride

Sulfate

Bicarbonate

Hardness (ppm)

Hardness (gpg)

Remarks

Laboratory data:

Sample storage location CL9-7

Sample range

0-269

No. spls.

50

No. dupls. & Cond.

50 good

Spls. prepared by

DeRoma

Washed range

85-269

by

DeRoma

Driller's log and cond.

Insoluble residues: Prepared by

Studied by

Strip log

Microscopic study

strip log

10/14/52

Gen. log

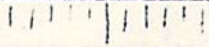
Correl. by

NORTHUP

CASING DIAGRAM

LOG

Vertical Scale _____



sand 0-40
blectry 40-82
Rock 82-267
shale 267-269

