Humboldt, Iowa.
March. - 17-38

Mr. H. G. Hershey.
Iowa City, Iowa.

Re: Blairsburg well.

The State Department of Health made a water analysis of well and found it satisfactory at this time.

The well is 360' feet Deep.

The following log is as near as I have it -

0' to 163' Clay.
163 to 169 Soft lime Rock.
169 to appr. 214 Rock.
214 to 232 - Clay or Shale.
232 - 245 - Rock.
245 - 255 Clay or Shale.
255 to 360 Rock lime.

8" Casing 173.5' feet. 2.5' -overs. Top of Ground.
6 5/8 " 70 feet appr. 6' lap
5 5/8 " 27.5' " " 6' lap.

Bottom of Casing 259' below ground 100 ft of open hole
Black Pipe Casing used.
An egg tool used to swedge pipe connections.
On Feb - 3 - 38. Well was pumped 8 hrs.
Elevation of Water was 56 feet
from top of Casing to water.
The following is pump test for Eight hrs.
Test air line was 160 feet from Gauge to bottom of pipe, or 102 ft. from water elev. To bottom of pipe.

Time	Strokes Per. Min	G. P. M. No-Slip	Gauge.	feet	Draw Down
9:11	15	35	28	64	35
9:22	20	46	28	64	35
10:06	25	57	26	60	39
10:26	21	48	26	60	39
11:06	24	55	21	48	51
2:00	30	69	13	28	71
3:30	30	69	13	28	71
4:15	28	65	16	37	62.

This is all the information I have on the well at the present. as I was not present all during the drilling it was a matter of collecting this data as I could.. Hoping it will help you out. I presume it will be some time yet before a pump is set in well.

Very truly yours.
John J. Mc Neel.

MUNICIPAL AND INDUSTRIAL
WASTE ENGINEERING

20 YEARS SPECIALIZING IN
SEWAGE WORKS AND
WATER WORKS

CURRIE ENGINEERING COMPANY

WEBSTER CITY, IOWA

February 21, 1938

BLAIRSBURG WATERWORKS

A. C. Tester,
Geology Department,
Iowa City, Iowa.

Dear Mr. Tester:

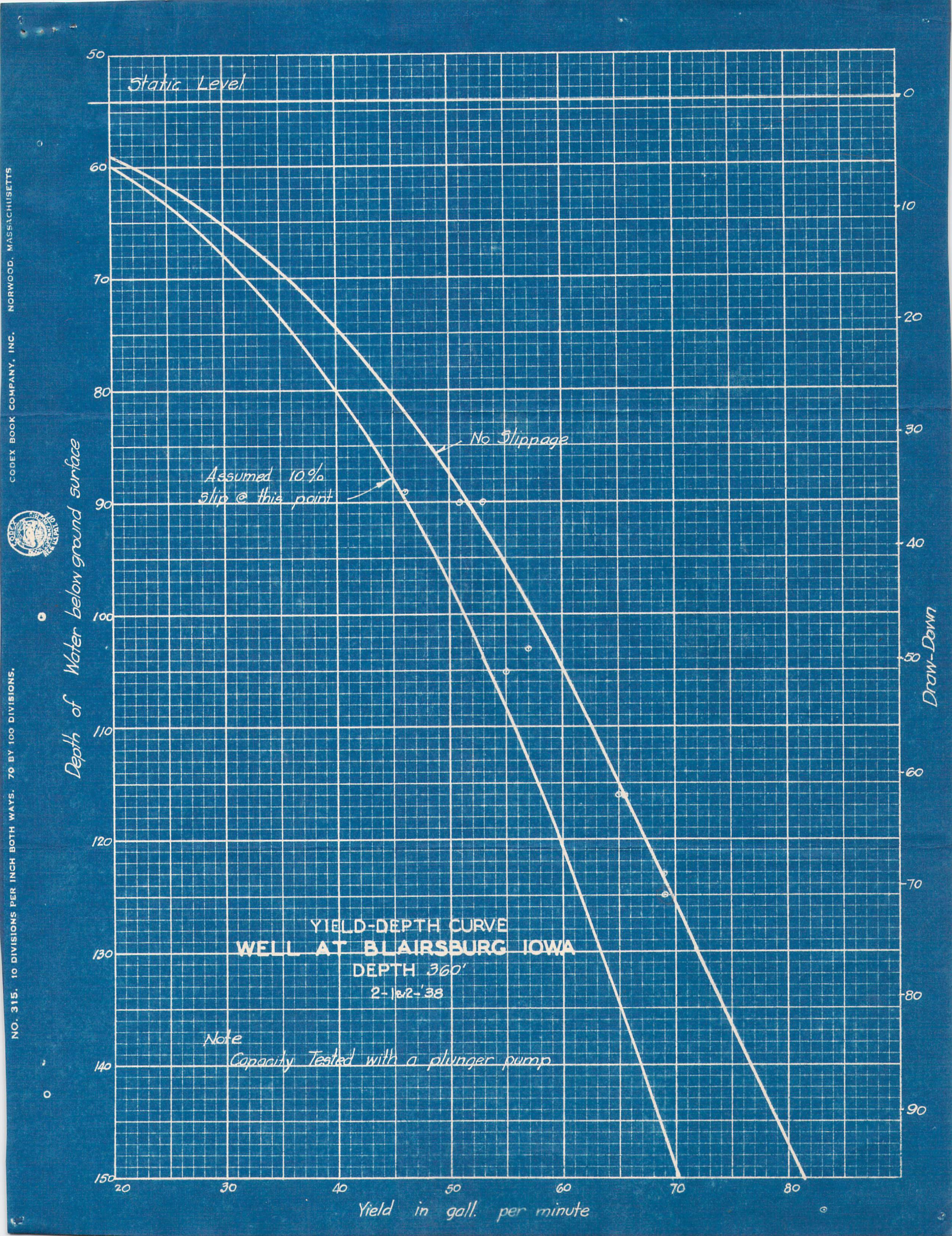
We are enclosing a print showing the results of the test of the well at Blairsburg, which may be of interest to you.

Very truly yours,

F. H. Austin

F. H. Austin, Sec'y-Treas.,
CURRIE ENGINEERING COMPANY

K



YIELD-DEPTH CURVE

WELL AT BLAIRSBURG IOWA

DEPTH 360'

2-1&2-'38

Note

Capacity Tested with a plunger pump

STATE OF IOWA
IOWA GEOLOGICAL SURVEY
103 GEOLOGY BUILDING
IOWA CITY

ARTHUR C. TROWBRIDGE
DIRECTOR AND STATE GEOLOGIST

January 24, 1938

Mr. J. W. McNee
City Clerk
Blairsburg, Iowa

Dear Sir:

Information has just reached me through Prof. J. J. Hinman, Jr. that the new city well at Blairsburg is nearing completion and you wish to have the water analyzed for mineral content. It is necessary that a member of the Geological Survey be present at the time these samples are collected. If you will notify me as far in advance as possible of the pumping test, I will make every effort to be present to collect the samples.

Very truly yours,

H. G. Hershey

H. G. Hershey

HGH:A

Feb. 1" 1938

They pumped the new well to-day several hours, seems to be a sufficient supply of water, but it does not clear up, and the water has an offensive odor. They will pump again Friday Feby. 4th.

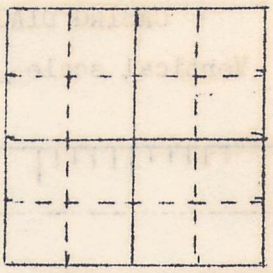
Yours truly

J. W. McNee

IOWA GEOLOGICAL SURVEY
In Cooperation with U. S. Geological Survey

W-0713

RECORD OF WELL



Location:

Town: Blairsburg (N E S W); County Hamilton

NE¼-NW¼-SE¼ sec. 35 T. 89 N., R. 24 W. Blairsburg Twp.

Well name and number Blairsburg City Well

Owner Town of Blairsburg Address

Tenant Address

In city park

Contractor J.J Becker Address Ft. Dodge

Drillers J.J Becker

Drilling dates Winter (Jan-Feb) 1938

Well data:

Elevations: Drilling curb feet; Land surface 1225 feet

Determined by Hand level K.E Anderson 1942

Topographic position

Total depth: Reported 360 feet, Measured feet

Drilling method

Hole and casing data 173.5' of 8" casing from +2.5' to 171'; 70' of 6 5/8" casing from 167' to 237'; 27.5' of 5 5/8" casing from 232.5 to 259. (Give amount, size, kind, and depth of all casing; type and position of seals and packers; cementing; how finished--perforated pipe, screen, gravel pack, open hole, etc.) (correct lengths of casing intervals approx.)

Original depth to water ft. above below Date

Original elevation of water level ft.; Source of data

Sources of water: Principal Gilmore City ; Others

Production data: Date Feb 3, 1938

Static depth to water 56' Measuring point top of casing 2.5' above curb

Pumping level 127' at 69 g.p.m.

95 48

Specific capacity 1 g.p.m. per ft. drawdown; Temperature °F.

Pump data; Type pump Column Dia. Length

Cylinder or bowls: Dia. Length Suction pipe

Power Airline 160'

Estimated rate of production: g.p.m. for hrs. a day

Use of water

WATER ANALYSES (in parts per million)

Date sampled	April 2, 1941			
Sampled by	J.A. Sampson			
Total solids	507			
Insoluble matter	19.0			
Alkalinity (Meo)	430.0			
Alkalinity (Phn)	0.0			
pH 4/11/41	7.3			
$Fe_2O_3 + Mn_2O_3 + Al_2O_3$	6.0			
Alkali as sodium	36.6			
Calcium	85.0			
Magnesium	40.6			
Iron (unfiltered)	3.1			
Manganese	0.00			
Nitrate	0.00			
Fluoride	1.0			
Chloride	4.0			
Sulfate	41.6			
Bicarbonate	524.6			
Hardness (ppm)	385			
Hardness (gpg)	22.5			

Remarks This analysis may be for some other Blairsburg town well!

Laboratory data: Sample storage location

Sample range 30-350 No. spls. 36 No. dupls. & cond. 36 fair to poor

Spls. prepared by Washed range by

Driller's log and cond. yes

Insoluble residues: Prepared by Studied by Strip log

Microscopic study Gardner (Gulf) strip log copied by Elias & Schultz 8/13/45

Gen. log Correl. by Gardner