

IOWA GEOLOGICAL SURVEY
In Cooperation with U.S. Geological Survey
RECORD OF WELL

W 9845

Location:

Town: RUDD (NE) (SW) County FLOYD

C+1NL SW sec. 18 T. 96 N., R. 17 W. Twp

Well name and number _____

Owner RUDD TOWN WELL (1958) Address _____

Tenant _____ Address _____

Contractor HOEG & AMES Address LINCOLN, IOWA

Drillers _____

Drilling dates JUNE - SEPT. 22, 1958

Well data:

Altitudes: Drilling curb _____ feet; Land surface 1122' feet

Determined by _____

Topographic position _____

Total depth: Reported 1288' feet; Measured _____ feet

Drilling method CABLE TOOLS

Hole and casing data 51' OF 10" CASING CEMENTED IN 16" HOLE 0-51'

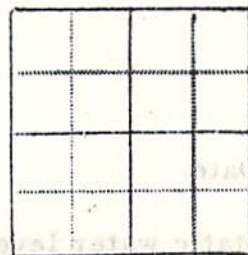
CASED THROUGH ST. PETER - CASING 3RT @ 855'

Original depth to water 171 ft. above _____ Date _____

Source of data _____

Sources of water: Principal PRAIRIE DU CHIEN, JORDAN

Others _____



In Cooperation with U.S. Geological Survey
ACCOUNT OF WORK

Location

PRODUCTION DATA

Town

Date

Static water level

171'

Measuring point

Pumping water level

183' 190'

Yield (g. p. m.)

280 360

Duration of pumping

Specific capacity

LABORATORY DATA

DBI - 17, 18, 19

Well No. **9845**

sample range 0 - 1288'

No. of samples 357

No. of dupls. and cond. 357, Good

washed range 20' - 1288'

Samples prepared by Marshall, et al

Date 9/23/58

Logged by NORTHUP

Date July - SEPT. 1958

Correlations by "

Date "

1 2
original depth to water 170'
174'
sources of data 18
22
36
357

SEP 25 1958



MEMBER

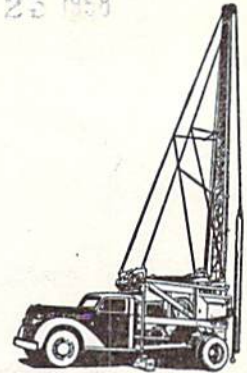
HOEG & AMES, Inc.

WELL CONTRACTORS

WELL SUPPLIES

☆☆☆

LINCOLN, IOWA



LOG OF WELL FOR TOWN OF RUDD

Hoeg & Ames, Inc., Well Contractors
 Kenneth Kroeger, Driller
 Well started May 28, 1958. Finished September 22, 1958

Size of hole:

Drilled 16 in. hole from 0 to 51 ft.
 Drilled 10 in. hole from 51 to 255 ft.
 Drilled 8 in. hole from 255 to 855 ft.
 Drilled 6 in. hole from 855 to 1288 ft. - total depth

Record of pipe:

29 ft. of 16 in. pipe - permanent
 51 ft. of 10 in. pipe 2 ft. above ground to 51 ft.
 194 ft. of 8 in. pipe - from 33 ft. to 227 ft.
 619 ft. of 6 in. pipe from 227 to 846 ft.
 Open hole from 846 to 1288 ft.

Pumping test record:

Set test pump when we were at a depth of 225 ft. - well produced 48 gpm. pumped dry.
 Tested again at a depth of 710 ft. - well produced 91 gpm.
 Made final test at a depth of 1288 ft. and well produced 360 gpm. with a water level of 190 ft.
 Test pump was set at 248 ft. depth.

Formation:

Black drift	0-5	Ft.
Gray clay	5-20	Ft.
Sand and gravel	20-23	Ft.
Rock and shale	23-26	Ft.
Broken rock	26-30	Ft.
Good rock	30-113	Ft.
Rock and shale bands	113-118	Ft.
Soft brown limestone	118-125	Ft.
Brown limestone	125-142	Ft.
Brown limestone and shale bands	142-148	Ft.
Rock and shale	148-165	Ft.
Soft gray limestone and some shale	165-200	Ft.
Brown limestone	200-210	Ft.
Gray limestone and shale	210-240	Ft.
Brown limestone	240-255	Ft.
Gray limestone and some shale streaks	255-365	Ft.
Brown limestone	365-410	Ft.
Rock and shale	410-480	Ft.
Brown limestone	480-575	Ft.
Gray limestone, very hard	575-585	Ft.
Brown limestone	585-625	Ft.
Gray limestone	625-660	Ft.



MEMBER

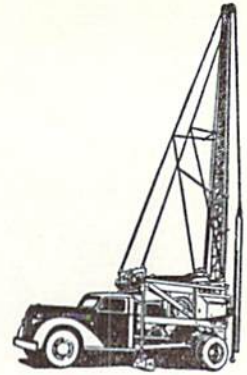
HOEG & AMES, Inc.

WELL CONTRACTORS

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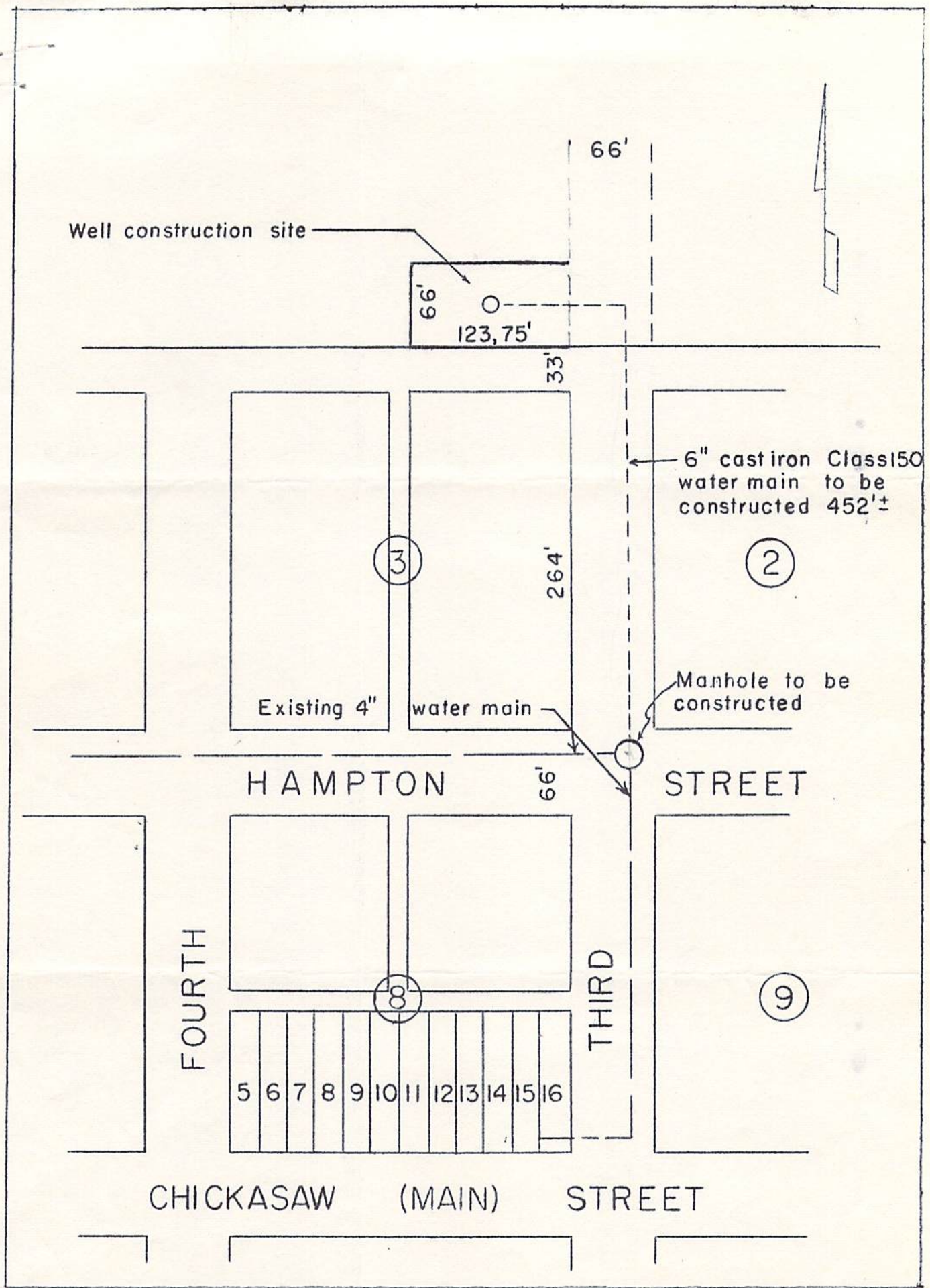
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LINCOLN, IOWA



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Brown limestone	660-695	Ft.
Gray shale	695-780	Ft.
Sandstone	780-850	Ft.
Gray limestone	850-860	Ft.
Brown limestone	860-920	Ft.
Hard white dolomite, sandy	920-930	Ft.
Hard brown limestone	930-1100	Ft.
White limestone and dolomite	1100-1190	Ft.
Gray limestone and dolomite	1190-1200	Ft.
Brown limestone and dolomite	1200-1225	Ft.
Sandstone	1225-1288	Ft.



WELL LOCATION & MAIN CONSTRUCTION

RUDD, IOWA

WALLACE & HOLLAND

CONSULTING ENGINEERS

MASON CITY, IOWA

APRIL 1958