

WELL SCHEDULE

U. S. DEPT. OF THE INTERIOR

GEOLOGICAL SURVEY

WATER RESOURCES DIVISION

MASTER CARD

Record by D. AARONSON Source of data FILE Date 2/8/67 Map 1:63,360 COUNTY HWY.

State IOWA County (or town) IOWA 116 4:8

Latitude: 41° 45' 20" N Longitude: 092° 11' 20" W Sequential number: 1

Lat-long accuracy: 3' T. 80 S. R. 12 Sec. 12 t. SW t. NE t. 5

Local well number: 08012W12AC Other number: W-5509

Local use: 05509 52 CITY 2 Owner or name: LADORA TOWN WELL #2

Owner or name: LADORA IOWA Address: LADORA, IA.

Ownership: County, Fed Gov't, City, Corp or Co, Private, State Agency, Water Dist M

Use of Air cond, Bottling, Comm, Dewater, Power, Fire, Dom, Irr, Mod, Ind, P S, Rec, water: P

Use of well: Anode, Drain, Seismic, Heat Res, Obs, Oil-gas, Recharge, Test, Unused, Withdraw, Waste, Destroyed W

DATA AVAILABLE: Well data 1 Freq. W/L meas.: INVENTORY Field aquifer char. 0

Hyd. lab. data: 0

Qual. water data; type: COMPLETE

Freq. sampling: IRREGULAR (7/17/52) Pumpage inventory: I no. period: 0

Aperture cards: 0

Log data: GEOLOGIST LOG

WELL-DESCRIPTION CARD

SAME AS ON MASTER CARD Depth well: 72'6" Meas. rept. DRILLER'S LOG accuracy 3

Depth cased: 64'6" Casing type: STEEL Diam. 8 in 8

Finish: porous gravel w. gravel w. horiz. open perf., screen, sd. pt., shored, open hole, other S

Method (A) (B) (C) (D) (H) (J) (P) (R) (T) (V) (W) (X) (Y) (Z) C

Drilled: air bored, cable, dug, hyd jettied, air rot., percussion, rotary, drive wash, other C

Date Drilled: JULY 17, 1952 Pump intake setting: 50 ft 50

Driller: D. E. EDWARDS address WEST BRANCH, IA.

Lift (type): air, bucket, cent, jet, multiple, multiple, none, piston, rot, submerg, turb, other T Deep D Shallow 0

Power (type): diesel, nat gas, gasoline, hand, gas, wind; H.P. 5 Trans. of meter no. 0

Descrip. MP LSD above ft below LSD. Alt. MP 765

Alt. LSD: 765 Accuracy: ALTIMETER

Water Level 19 ft above MP; Ft below LSD 19 Accuracy: DRILLER'S LOG

Date moas: JULY 1952 Yield: 300 gpm 300 Method determined 0

Drawdown: 21 ft Accuracy: 3 Pumping period 4 hrs 4

QUALITY OF WATER DATA: Iron 1.4 Sulfate 162 Chloride 40 Hard. 333

Sp. Conduct 1010 K x 10⁶ Temp. 53 °F Data sampled 9/2/59

Taste, color, etc. 0

Well No. 080-12W-12AC

Well No. 080-12W-12AC

Latitude-longitude 41, 45, 20 ^N 092, 11, 20.1
d m s d m s

HYDROGEOLOGIC CARD

SAME AS ON MASTER CARD Physiographic Province: CENTRAL LOWLAND 1:2 Section: DISSECTED

TILL PLAIN E Drainage Basin: IOWA ZJ.D Subbasin:

Topo of well site: (D) depression, stream channel, dunes, flat, hilltop, sink, swamp, (C) offshore, pediment, hillside, terrace, undulating, valley flat (E) VALLEY FLAT (F) (H) (K) (L) (U)

MAJOR AQUIFER: QUATERNARY LOESS Q6 6X
system series aquifer, formation, group

Lithology: SAND & GRAVEL R Origin: GLACIAL 0 Aquifer Thickness: ft

Length of well open to: 8 ft Depth to top of: 56 ft 5.6

MINOR AQUIFER:
system series aquifer, formation, group

Lithology: Origin: Aquifer Thickness: ft

Length of well open to: ft Depth to top of: ft

Intervals Screened: 64.5 FT TO 72.5 FT.

Depth to consolidated rock: ft Source of data:

Depth to basement: ft Source of data:

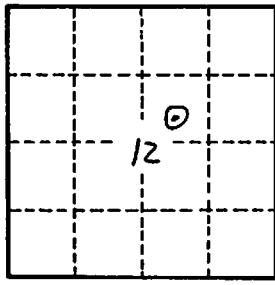
Surficial material: NONCALC. LOESS N9 Infiltration characteristics: POOR 4

Coefficient Trans: gpd/ft Coefficient Storage:

Coefficient Perm: gpd/ft²; Spec cap: 14.2 gpm/ft; Number of geologic cards:

CASING:

8" CASING FROM +1.6 FT TO 64'6"
8' OF SCREEN SET ON BOTTOM WITH 3 FT OF 7" CASING LAPPING INTO 8".



Well No. 080-12W-12AC

Iowa

September 19, 1952

Mayor
Ladora, Iowa

Dear Sir:

Enclosed are reports on the mineral analyses of water from the 51-foot and 72½-foot wells of the Town of Ladora as shown by samples collected by Mr. C. W. Lene on July 17, 1952.

These reports do not show the sanitary condition of the wells since it is impossible to make a bacteria count from a sample such as the ones collected.

If you have any questions concerning these reports, please do not hesitate to let me hear from you.

Very truly yours,

H. G. Hershey

Enclosures

HGH:emh

Iowa

July 29, 1952

Mr. D. E. Edwards
D. E. Edwards, Inc.
West Branch, Iowa

Dear Mr. Edwards:

We have just received the State Water Laboratory report on the iron content and hardness of the two water samples collected at Ladora at the time of the pumping test. They are as follows:

<u>Well</u>	<u>Fe (ppm)</u>	<u>Hardness (ppm)</u>	<u>Hardness (grains/gallon)</u>
Old well	1.6	388	22.7
New well	1.3	360	21.0

The complete mineral analysis of the two samples should be completed in about a week and copies will be forwarded to you at that time.

Very truly yours,

C. Richard Murray

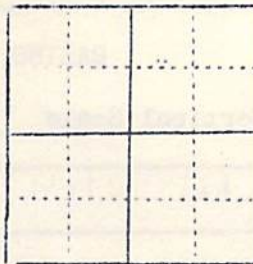
CRM:CWL:emb

Sample from 20 to 30'

which is missing, was reported
by the driller to be a very
fluid silt and no sample was
saved.

cut

RECORD OF WELL



Location:

Town: Ladown (NE)
SW : County Iowa

SW NE sec. 12 T 80 N., R. 12 E. W. _____ Twp.

Well name and number Ladown Town Well #2 (1952)

Owner Town of Ladown Address _____

Tenant _____ Address _____

Contractor D.C. Edwards Address West Branch, Ia.

Drillers Jac Mintz

Drilling dates June 16 to July 17, 1952

Well data:

Elevations: Drilling curb _____ feet; Land surface 765 feet

Determined by _____

Topographic position Valley Flat

Total depth: Reported 72' 6" feet, Measured _____ feet

below top of 8" csg which is 1.6 ft above land surface

Drilling method Cable tool

Hole and casing data 8" csg from 1.6 to 64' 6". 8 ft of 80 slt
8" screen set on bottom with 3' of 7" csg leaping into 8"

Original depth to water _____ ft. above _____ below _____ Date _____

Original elevation of water level _____ ft.; Source of data _____

Sources of water: Principal _____ ; Others _____

Production data:

Date _____

Static depth to water _____

19±

Measuring point _____

top of 8' cog 1.6' to lid

Pumping level _____

40.7'

at _____

300

g.p.m.

Specific capacity _____

g.p.m. per ft. drawdown;

Temperature _____

°F.

Pump data: Type pump _____

Column Dia. _____

Length _____

Cylinder or bowls: Dia. _____

Length _____

Suction pipe _____

Power _____

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 _____

Fe₂O₃+Mn₂O₃+Al₂O₃ _____

Alkali as sodium _____

Calcium _____

Magnesium _____

Iron (unfiltered) _____

Manganese _____

Nitrate _____

Fluoride _____

Chloride _____

Sulfate _____

Bicarbonate _____

Hardness (ppm) _____

Hardness (gpg) _____

Remarks _____

Laboratory data:

Sample storage location _____

CL 6-3

Sample range _____

0-71.6"

No. spls. _____

7

No. dupls. & Cond. _____

7- Good

Spls. prepared by _____

AJF

Washed range _____

by _____

AJF

7/2/52

Driller's log and cond. _____

Insoluble residues: Prepared by _____

Studied by _____

Strip log _____

Microscopic study _____

strip log _____

8/1/52

Gen. log _____

Correl. by _____

NORTHUP