

089-40W-3566a

Well Number 42, 29, 15 ^N 0895, 32, 25
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HYDROGEOLOGIC CARD

SAME AS ON MASTER CARD Physiographic Province: CENTRAL LOWLAND Section: WEST

LAKE Drainage Basin: LITTLE SIOUX Subbasin:

Topo of well site: local depression, flat surface, hilltop, hillside, terrace, valley flat,

MAJOR AQUIFER: CAMBRIAN, UPPER JORDAN SANDSTONE

Lithology: FINE SANDSTONE Origin: MARINE Aquifer Thickness: 25 ft

Length of well open to: 25 ft Depth to top of: 1700 ft

MINOR AQUIFER: CAMBRIAN, UPPER MT SIMON

Lithology: FINE SANDSTONE Origin: MARINE Aquifer Thickness: ft

Length of well open to: 40 ft Depth to top of: 1930 ft

Intervals Screened: NONE

Depth to consolidated rock: 390 ft Source of data: WELL CUTTINGS

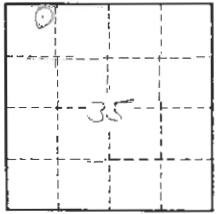
Depth to basement: ft Source of data:

Surficial material: Infiltration characteristics:

Coefficient of Trans: spd/ft Coefficient Storage:

Coefficient of Perms: spd/ft; Spec cap: sp/ft; Number of geologic cards:

CASING:
0-387' 8" CASING
387'-722' 5" CASING
722'-1465' 4" CASING



Well located 1978

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

W-0036

RECORD OF WELL

Location:

Town: HOLSTEIN (NE)
NW, NW, NW, NW, 35, 89, 40 (S.W): County IDA
NE NW NW sec. 35 T 89 N., R. 40 W. E.
Twp.

Well name and number City Well No. 1.

Owner _____ Address _____

Tenant _____ Address _____

Contractor _____ Address _____

Drillers _____

Drilling dates 1897

Well data:

Elevations: Drilling curb _____ feet; Land surface 1451 feet

Determined by Alc-D. Ross 49

Topographic position topo elev = 1450

Total depth: Reported 2009 feet, Measured _____ feet

Drilling method _____

Hole and casing data _____

Original depth to water _____ ft. ^{above} _____ ft. ^{below} _____ Date _____

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

Sources of water: Principal _____ ; Others _____

Production data:

Date _____

Static depth to water _____ Measuring point _____

Pumping level _____ at _____ 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 _____

Sample range 1575 - 1975 No. spls. 19 No. dupls. & cond. 7 per

Spls. prepared by _____ Washed range _____ by _____

Driller's log and cond. _____

Insoluble residues: Prepared by _____ Studied by _____ Strip log _____

Microscopic study _____ strip log copied from Vol. 21.

Gen. log _____ Correl. by sample range has been run.

WATER LEVEL DATA

Production data:

Measuring point _____

Measuring point _____

Static head to water _____

Pumping level _____

Date	Depth to water	Altitude	Remarks

REMARKS

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Date samples _____

Sampled by _____

Total solids _____

Insoluble matter _____

Alkalinity (meq) _____

Alkalinity (mm) _____

pH _____

Total Hardness _____

Alkali as sodium _____

Calcium _____

Magnesium _____

Iron (unfiltered) _____

Manganese _____

Nitrate _____

Fluoride _____

Chloride _____

Sulfate _____

Bicarbonate _____

Hardness (ppm) _____

Hardness (ppm) _____

Remarks _____

Laboratory data: _____

Sample weight _____

Moisture _____

Moisture & solids _____

Driller's log and coring _____

Invisible residues: Prepared by _____

Studied by _____

Strip log _____

Microscopic study _____

Coring by _____

UNITED STATES DEPARTMENT OF THE INTERIOR
 Geological Survey
 Water Resources Division

089-40W-35 BBA

W-0036

? NO SAMPLE
 THIS DATE

Water Quality
 (ppm)

Card Q

State: IOWA 1 6 County: DA 4 7 Town: HOLSTEIN

Well No. 4 2 2 9 1 5 N 0 9 5 3 2 2 5 Seq. No. 1 Date M D Y 1 0

Latitude Longitude

Sampling Depth 2 0 0 4 Type 1 Kx10⁶ pH Temp. °F

SiO₂ 2 8 Ca 2 4 3 Mg 6 6 Na 5 K 1 0

HCO₃ 3 4 8 CO₃ SO₄ 7 8 2 Cl 1 2 Source No. 4 Q

Card R

Duplicate Columns 1-25 from Card Q

F NO₃ PO₄ B Al Fe 4 0

Mn Cu Pb Zn

Determined 1 4 4 0 Solids Calc. Ca, Mg 8 8 0 Hardness Non-Carb. 4 9 5

Color No. R

Card S

Duplicate Columns 1-25 from Card Q

Br I Alk. as CaCO₃ 3 8 5 Free CO₂ SAR

RSC ABS

Alpha (pc/l) Beta (pc/l) Ra (pc/l) U (ug/l)

No. S
 80

Verified PMJ
 Punched FCH

Recorded by: D. AARONSON

Punched by: _____ Date: _____
 Published: _____