Name: Centerville city well (1893)
Loc: C/EL SW NE sec. 36-69N-18W Appanoose Co.
Drilling depth: 1100' base? Maple Mill
Drilling by: J. P. Miller & Co., Chicago, 1893
Log: W-0091
Casing: Cased to 804'

Remarks: Well was completed in St. Law. at 2550'

Elevation 1015'

Formations	Depth	Top	Base	Isopach
Ste Gen.	526			
Maple Mill	1040			

1040
526
514

WRD Exp. (GW)
April 1966

Well No. 069-18W-36 ACADD

WELL SCHEDULE

U. S. DEPT. OF THE INTERIOR — GEOLOGICAL SURVEY — WATER RESOURCES DIVISION

MASTER CARD

Record by D.AARONSON Source of data FILE Date 1/10/67 Map 1:62,500 CENTERVILLE QUAD.

State IOWA [16] County (or town) APPANOOSE [04]

Latitude: [4 0 4 4 0 4 N] Longitude: [0 9 2 5 2 2] Sequential number: [1]

Lat-long accuracy: [2] T 69 N, R 18 W Sec 36, SESE ¼, NESW ¼, NE ¼ 5

Local well number: [0 6 9 / 1 8 W 3 6 A C A D D] Other number: B & M W-0091

Local use: [0 0 0 9 1 93 CITY] Owner or name: CENTERVILLE CITY WELL

Owner or name: [CENTERVILLE IA.] Address: CENTERVILLE, IA.

Ownership: (C) County, (F) Fed Gov't, (M) City, (N) Corp or Co, (P) Private, (S) State Agency, (W) Water Dist [M]

Use of water: (A) Air cond, (B) Bottling, (C) Comm, (D) Dewater, (E) Power, (F) Fire, (H) Dom, (I) Irr, (M) Med, (N) Ind, (P) P S, (R) Rec, (S) Stock, (T) Instit, (U) Unused, (V) Repressure, (W) Recharge, (X) Desal-P S, (Y) Desal-other, (Z) Other [P]

Use of well: (A) Anode, (D) Drain, (G) Seismic, (H) Heat Res, (O) Obs, (P) Oil-gas, (R) Recharge, (T) Test, (U) Unused, (W) Withdraw, (X) Waste, (Z) Destroyed. [W]

DATA AVAILABLE: Well data [2] Freq. W/L meas.: INVENTORY [0] Field aquifer char. [ ]

Hyd. lab. data: [ ]

Qual. water data; type: [ ]

Freq. sampling: [ ] Pumpage inventory: yes / no, period: [ ]

Aperture cards: yes [ ]

Log data: GEOLOGIST LOG [G]

WELL-DESCRIPTION CARD

SAME AS ON MASTER CARD Depth well: 2550? ft [2550] Meas. rept Driller's Log accuracy [3]

Depth cased: (first perf.) 804 ft [804] Casing type: STEEL; Diam. ____ in [ ]

Finish: (C) porous concrete, (F) gravel w. (perf.), (G) gravel w. (screen), (H) horiz. gallery, (O) open end, (P) perf., screen, sd. pr., (S) shored, (T) open hole, (W) other, (Z) other [X]

Method drilled: (A) air rot, (B) bored, (C) cable, (D) dug, (H) hyd rot., (J) jetted, (P) air percussion, (R) reverse rotary, (T) trenching, (V) driven, (W) wash, (Z) other [C]

Date Drilled: 1893 [893] Pump intake setting: ____ ft [ ]

Driller: J.P. MILLER (name), ____ (address)

Lift (type): (A) air, (B) bucker, (C) cent, (J) jet, (L) multiple (cent.), (M) multiple (turb.), (N) none, (P) piston, (R) rot, (S) submerg, (T) turb, (Z) other [ ] Deep / Shallow [D]

Power (type): diesel, elec, nat gas, gasoline, hand, LP gas, wind; H.P. ____ [ ] Trans. or meter no. ____

Descrip. MP LSD ft above / below LSD, Alt. MP 1015

Alt. LSD: 1015 [1015] Accuracy: (source) ALTIMETER [7]

Water Level 260 ft above / below MP; Ft above / below LSD [260] Accuracy: Driller's Log [D]

Date meas: 1893 [93] Yield: 200 gpm [200] Method determined [ ]

Drawdown: ____ ft [ ] Accuracy: [ ] Pumping period ____ hrs [ ]

QUALITY OF WATER DATA: Iron ____ ppm [ ] Sulfate ____ ppm [ ] Chloride ____ ppm [ ] Hard. ____ ppm [ ]

Sp. Conduct ____ K x 10^6 [ ] Temp. ____ °F [ ] Date sampled [ ]

Taste, color, etc. [ ]

Punched ERC Verified FCH

Well No. 069-18W-36 ACADD

Well No. 069-18W-36 ACADD

Latitude-longitude 40 d 44 m 04 s N 092 d 52 m 22.1 s W

HYDROGEOLOGIC CARD

SAME AS ON MASTER CARD [1] Physiographic Province: CENTRAL LOWLAND [19] [12] [20 21] Section: DISSECTED

TILL PLAIN [E] [22] Drainage Basin: CHARITON [31E] [23 25] Subbasin: [ ] [26]

Topo of well site: (D) depression, (C) stream channel, (E) dunes, (F) flat, (H) hilltop, (K) sink, (L) swamp, (Ø) offshore, (P) pediment, (S) hillside, (T) terrace, (U) undulating, (V) valley flat [ ] [27]

MAJOR AQUIFER: CAMBRIAN system, UPPER series [C3] [28 29] JORDAN SS aquifer, formation, group [SJ] [30 31]

Lithology: COARSE SANDSTONE [4V] [32 33] Origin: MARINE [6] [34] Aquifer Thickness: [ ] ft

[ ] [35 37] Length of well open to: [ ] ft [ ] [38 40] Depth to top of: [ ] ft [ ] [41 43]

MINOR AQUIFER: ORDOVICIAN system, MIDDLE series [Ø2] [44 45] ST. PETER SS. aquifer, formation, group [MP] [46 47]

Lithology: MEDIUM SANDSTONE [3V] [48 49] Origin: MARINE [6] [50] Aquifer Thickness: 40 ft

[40] [51 53] Length of well open to: 40 ft [40] [54 56] Depth to top of: 1730 ft [A73] [57 59]

Intervals Screened: NONE

Depth to consolidated rock: 90 ft [90] [60 63] Source of data: WELL CUTTINGS [C] [64]

Depth to basement: [ ] ft [ ] [65 68] Source of data: [ ] [69]

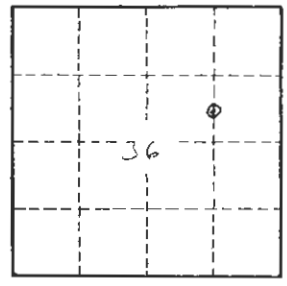
Surficial material: TILL [T] [70 71] Infiltration characteristics: POOR [4] [72]

Coefficient Trans: [ ] gpd/ft [ ] [73 75] Coefficient Storage: [ ] [76 78]

Coefficient Perm: [ ] gpd/ft^2; Spec cap: [ ] gpm/ft; Number of geologic cards: [ ] [79]

CASING:

CASING TO 804 FT.



Well No. 069-18W-36 ACADD

GPO 857-709

IOWA GEOLOGICAL SURVEY

In Cooperation with U. S. Geological Survey

W-0091

RECORD OF WELL



Location:

Town: Centerville (N E / S W): County Appanoose

C E L SW-NE sec. 36 T 69 N., R. 18 W. Walnut Twp.

Well name and number City Well

Owner _____ Address _____

Tenant _____ Address _____

Contractor U. P. Miller Address _____

Drillers _____

Drilling dates 1893

Well data:

Elevations: Drilling curb _____ feet; Land surface 1015 feet

Determined by _____

Topographic position _____

Total depth: Reported 2495 feet, Measured _____ feet

Drilling method _____

Hole and casing data _____

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 _____ 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				
$Fe_2O_3 + Mn_2O_3 + Al_2O_3$				
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 Scattered No. spls. 106 No. dupls. & cond. 136

Spls. prepared by _____ Washed range _____ by _____

Driller's log and cond. _____

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

Microscopic study Gulf strip log Gulf

Gen. log _____ Correl. by Gulf