

WRD Exp. (GW)
Aug. 1964

Punched FCH
Verified PMJ

U. S. DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

Water Resources Division Well Schedule Form

MASTER CARD

Record by P.J. Horick Source of data Files Date 5/14/65 Map H. & T.

State Iowa County Osceola (or town) 72

Latitude: 43 17 0 7 N Longitude: 09 5 3 6 3 0 Sequential number: 2

Lat-long accuracy: 2 98 S, R 40 E Sec 19 SW SE SE 5 PM

Local well number: 09840W19d4s Other number: W-8111

Local use: 081111 CITY Owner or name: MELVIN TOLN (1956)

Owner or name: MELVIN Address: MELVIN, IA

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

Use of water: (A) Air cond, Comm, Dewatering, Fire, Dom, Irr, Ind, P, S, Stock, Instit, Unused P

Use of well: (A) Anode, Drain, Seismic, Obs, Oil-gas, Recharge, Spring, Test, Unused, Withdraw, Waste, Destroyed W

DATA AVAILABLE: Well data 5 Freq. W/L meas.: NONE Field aquifer char. N

Hyd. lab. data:

Qual. water data: type:

Freq. sampling: Pumpage inventory: yes no period:

Aperture cards: yes no

Log data: GEOLOGIST LOG

WELL-DESCRIPTION CARD

SAME AS ON MASTER CARD Depth well: 570 ft Meas. 570 ft accuracy 6

Depth cased: (first perf.) ft Casing type: Diam. in

Finish: porous gravel w. (C) (F) (H) (O) (P) (S) (T) (W) (X) (Z) concrete, (perf.), (screen), gallery, end, horiz. open perf., screen, sd. pt., shored, open hole, other 31

Method: (A) (B) (C) (D) (H) (J) (P) (R) (T) (V) (W) (Z) Drilled: air bored, cable, dug, hyd jetted, air reverse trenching, driven, drive wash, other H

Date Drilled: 9:56 Pump intake setting: ft

Driller: Thorpe Well Co., Des Moines address

Lift (type): (A) (B) (C) (J) multiple, multiple, (N) (P) (R) (S) (T) (Z) air, bucket, cent, jet, (cent.) (turb.) none, piston, rot, submerg, turb, other 39 Deep Shallow 40

Power (type): diesel, elec, gas, gasoline, hand, gas, wind, H.P. Trans. or meter no. 41

Descrip. MP LSD ft above below lsd, Alt. MP 1582

Alt. LSD: 1582 Accuracy: 1582 ALTIMETER 7

Water Level: above below MP; Ft below lsd Accuracy:

Date meas: Yield: gpm Method determined

Drawdown: ft Accuracy: Pumping period: hrs

QUALITY OF WATER DATA: Iron Sulfate Chloride Hard.

Sp. Conduct K x 10⁶ Temp. Date sampled

Taste, color, etc.

Well Number 43.17.07 ^N 095.36.30.1 _S

HYDROGEOLOGIC CARD

SAME AS ON MASTER CARD

Physiographic Province: CENTRAL LOWLAND 1:2 Section: WESTERN

LAKE [B] Drainage Basin: LITTLE SIOUX 3:6 C Subbasin: []

Topo of well site: (D) (F) (H) (S) (T) (V) 27 []

MAJOR AQUIFER: Quaternary, Pleistocene Q:G Glacial sd & gr. [G:X]

Lithology: FINE GRAVEL 2:G Origin: [O] Aquifer Thickness: 50 ft

Length of well open to: [5:0] ft 38 40 Depth to top of: [] ft 41 43

MINOR AQUIFER: [] system [] series [] aquifer, formation, group [] Aquifer Thickness: [] ft

Lithology: [] Origin: [] Aquifer Thickness: [] ft

Length of well open to: [] ft 54 56 Depth to top of: [] ft 57 59

Intervals Screened: []

Depth to consolidated rock: 500 ft 60 63 Source of data: [C] 64

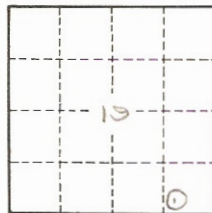
Depth to basement: [] ft 65 68 Source of data: [] 69

Surficial material: SANDY TILL 8:7 Infiltration characteristics: POOR 72 4

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

Coefficient Perm: [] gpm/ft²; Spec cap: [] gpm/ft; Number of geologic cards: [] 79

Note: Well reportedly only 470' deep and producing from sand and gravel at base of drift. Probably well was plugged back. Apparently did not reach Dakota sandstone.



5/79 field located by S. Lenker

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

W 8111

Location:

Town: MELVIN (NE) (SW) : County OSCEOLA
NE, SE, SW, SE
SW SW sec. 20 T. 98 N., R. 40 W. Twp.

Well name and number _____

Owner MELVIN TOWN TEST (1956) Address _____

Tenant _____ Address _____

Contractor THORPE Address DES MOINES

Drillers _____

Drilling dates OCT- 1956

Well data:

Altitudes: Drilling curb _____ feet; Land surface 1582 feet

Topo Elev 1582

Determined by altitude (C&S)

Topographic position _____

Total depth: Reported 570? feet, Measured _____ feet

Drilling method ROTARY

Hole and casing data _____

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

Source of data _____

Sources of water: Principal _____

Others _____

Production Data

Date	_____	_____	_____	_____
Static water level	_____	_____	_____	_____
Measuring point	_____	_____	_____	_____
Pumping water level	_____	_____	_____	_____
Yield (g. p. m.)	_____	_____	_____	_____
Duration of pumping	_____	_____	_____	_____
Specific capacity	_____	_____	_____	_____

Pump Data

Type pump	_____	Column diameter and length	_____
Cylinder or bowls diameter and length	_____		
Suction pipe	_____	Airline	_____
Power	_____	Production	_____ g. p. m. for _____ hours per day
Use of water	_____		

Dissolved constituents and properties (in parts per million except as indicated)

Date sampled	_____	_____	_____	_____
Sampled by	_____	_____	_____	_____
Silica (SiO ₂)	_____	_____	_____	_____
Iron (Fe)	_____	_____	_____	_____
Manganese (Mn)	_____	_____	_____	_____
Calcium (Ca)	_____	_____	_____	_____
Magnesium (Mg)	_____	_____	_____	_____
Potassium (K)	_____	_____	_____	_____
Sodium (Na)	_____	_____	_____	_____
Carbonate (CO ₃)	_____	_____	_____	_____
Bicarbonate (HCO ₃)	_____	_____	_____	_____
Sulfate (SO ₄)	_____	_____	_____	_____
Chloride (Cl)	_____	_____	_____	_____
Fluoride (F)	_____	_____	_____	_____
Nitrate (NO ₃)	_____	_____	_____	_____
Dissolved solids	_____	_____	_____	_____
Hardness (as CaCO ₃)	_____	_____	_____	_____
Total	_____	_____	_____	_____
Grains per gallon	_____	_____	_____	_____
Noncarbonate	_____	_____	_____	_____
Alkalinity (as CaCO ₃)	_____	_____	_____	_____
pH	_____	_____	_____	_____
Specific conductance	_____	_____	_____	_____
(micromhos at 25°C)	_____	_____	_____	_____
Temperature (°F)	_____	_____	_____	_____
Analysis No.	_____	_____	_____	_____

Laboratory Data

Well No. W 8111	Sample range 0-570	No. of samples 103
No. of dupls. and cond. 103 good	Washed range _____	
Samples prepared by Daw	Date _____	
Logged by _____	Date _____	
Correlations by _____	Date _____	