WRD Exp. (GW)
Aug. 1964

Verified ERC

Punched FCH

U. S. DEPARTMENT OF THE INTERIOR — GEOLOGICAL SURVEY

Water Resources Division Well Schedule Form

MASTER CARD

FT. DODGE, QUAD

Record by D. AARONSON | Source of data FILE | Date 1/18/66 | Map 1:62,500

State IOWA (16) | County (or town) WEBSTER (94)

Latitude: 42 30 11 N | Longitude: 094 11 53 | Sequential number: 1

Lat-long accuracy: 2 | T 89 N, R 28 W Sec 19, SWSW ¼, NESE ¼, SW ¼ 5

Local well number: 089 28W 19 CDACC | Other number: W-0074

Local use: 00074 CITY 1 | Owner or name: CITY WELL #1

Owner or name: FT DODGE | Address: FT. DODGE, 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, (C) Comm, (D) Dewatering, (F) Fire, (H) Dom, (I) Irr, (N) Ind, (P) S, (S) Stock, (T) Instit, (U) Unused — P

Use of well: (A) Anode, (D) Drain, (G) Seismic, (O) Obs, (P) Oil-gas, (R) Recharge, (S) Spring, (T) Test, (U) Unused, (W) Withdraw, (X) Waste, (Z) Destroyed — W

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

Hyd. lab. data:

Qual. water data; type: PARTIAL — P

Freq. sampling: INVENTORY — Ø | Pumpage inventory: yes, no; period:

Aperture cards: yes

Log data: GEOLOGIST LOG — G

WELL-DESCRIPTION CARD

SAME AS ON MASTER CARD | Depth well: 1827.5 ft | 1828 Meas. (DR) | accuracy — 6

Depth cased; (first perf.) 328 ft | 3280 | Casing type: STEEL; Diam. 12 in — 12

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

Date Drilled: 1907 | 907 | Pump intake setting: ft

Driller: name, address

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

Power (type): diesel, elec, gas, gasoline, hand, nat gas, LPG, wind; H.P. — Trans. or meter no.

Descrip. MP LSD ft above below lsd, Alt. MP 989.83

Alt. LSD: 990 | 990 | Accuracy: (source) INSTRUMENT — 0

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

Date meas: | Yield: gpm | Method determined

Drawdown: ft | Accuracy: | Pumping period hrs

QUALITY OF WATER DATA: Iron 1 ppm — 4 | Sulfate 205 ppm — 6 | Chloride 144 ppm — 3 | Hard. 449 ppm — 7

Sp. Conduct K x 10⁶ | Temp. °F | Date sampled 1907 — 07

Taste, color, etc.

089-28W-19 CDACC

Well Number 42 30 11 N 094 11 53 (d m s d m s)

HYDROGEOLOGIC CARD

SAME AS ON MASTER CARD | Physiographic Province: CENTRAL LOWLAND — 12 | Section: WESTERN

LAKE B | Drainage Basin: DES MOINES — 253 | Subbasin:

Topo of well site: (D) local depression, (F) flat surface, (H) hilltop, (S) hillside, (T) terrace, (V) valley flat,

MAJOR AQUIFER: CAMBRIAN system, UPPER series — C3 | JORDAN SANDSTONE aquifer, formation, group — SS

Lithology: MEDIUM SANDST. & DOL — ZV | Origin: MARINE — 6 | Aquifer Thickness: ft

Length of well open to: 89 ft — 89 | Depth to top of: 1738 ft — 474

MINOR AQUIFER: ORDOVICIAN system, MIDDLE series — Ø2 | ST. PETER - PRAIRIE DUCH. aquifer, formation, group — MP

Lithology: MEDIUM SANDSTONE — ZV | Origin: MARINE — 6 | Aquifer Thickness: 280 ft

Length of well open to: 247 ft — 247 | Depth to top of: 1409 ft — 411

Intervals Screened: NONE

Depth to consolidated rock: ft | Source of data:

Depth to basement: ft | Source of data:

Surficial material: | Infiltration characteristics:

Coefficient Trans: gpd/ft | Coefficient Storage:

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

CASING

15" HOLE + 1'8" TO 278'

12" CASING + 1'8" TO 328'

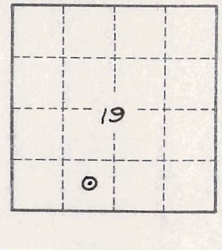
13½" 278' TO 328

9" CASING 1036½' TO 1056

6" CASING 1331½' TO 1390'

5" CASING 1375' TO 1438'9"

OPEN HOLE 1438'9" TO BOTTOM



GPO 844-225