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

W12969

Location:

Town: Cumberland (NE) (SW) County Cass (E)

SW NE, SW sec. 22 T. 75 N., R. 35 (W) Twp.

Well name and number

Owner Cumberland Town Test #3, 1961 Address Cumberland, Ia.

Tenant Address

Contractor Sunberg Well Co. Address

Drillers

Drilling dates Summer, 1961

Well data:

Altitudes: Drilling curb feet; Land surface 1312 feet

Determined by GROUP ALTIMETER RUN 8/1965

Topographic position HILL TOP

Total depth: Reported 257 feet; Measured feet

Drilling method

Hole and casing data 7" csg. to 257'
slotted 235'-240'
No screen

Original depth to water ft. above/below Date

Source of data

Sources of water: Principal _____

Others _____

PRODUCTION DATA

Date _____

Static water level 138

Pumping water level _____

Yield (g.p.m.) 22 G.P.M.

Measuring point _____

Duration of pumping _____

Specific capacity _____

LABORATORY DATA

TL4-158

Well No. W12969 Sample range 0'-255 No. of samples 51

No. of dupls. and cond. 51- Good Washed range _____

Samples prepared by Vermeer Date 7/24/61

Logged by Koch Date 7/26/61

Correlations by Koch Date 7/26/61

Verified PMJ

Punched ERC

075-35W-22CAC

WRD Exp. (CW)
Aug. 1964

U. S. DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

Water Resources Division Well Schedule Form

MASTER CARD

Record by D. AARONSON | Source of data FILE | Date 4/26/66 | Map 1:63,360 COUNTY HWY.

State IOWA (16) | County (or town) CASS (015)

Latitude: 41 16 37 N | Longitude: 094 52 02 | Sequential number: 1

Lat-long accuracy: 2 | T 75 N, R 35 W | Sec 22, SW ¼, NE ¼, SW ¼ 5

Local well number: 075 35W 22CAC | Other number: W-12969

Local use: 12969 61CITY T3 | Owner or name: CUMBERLAND TOWN TEST 3

Owner or name: CUMBERLAND IOWA | Address: CUMBERLAND, IA.

Ownership: (C) County, (F) Fed Gov't, (M) City, Corp or Co, (N) 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) P S, (S) Stock, (T) Instit, (U) Unused — U

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 — T

DATA AVAILABLE: Well data 2 | Freq. W/L meas.: INVENTORY | 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: 257 ft | Meas. Repd | accuracy — 6

Depth cased; (first perf.) 235 ft | Casing type: STEEL ; Diam. 7 in — 7

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

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

Date Drilled: SUMMER 1961 9 61 | Pump intake setting: ft

Driller: SUNBERG WELL CO. (name) , AUDUBON, IA. (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, nat gas, gasoline, hand, LPG gas, wind; H.P. | Trans. or meter no.

Descrip. MP: LSD ft above below lsd, Alt. MP 1312

Alt. LSD: 1312 | Accuracy: (source) ALTIMETER — 7

Water Level 138 ft above below MP; Pt above below lsd | 1 3 8 | Accuracy: DRILLERS LOG — D

Date meas: SUMMER 1961 | 6 1 | Yield: 22 gpm | 2 2 | Method determined

Drawdown: ft | Accuracy: | Pumping period hrs

QUALITY OF WATER DATA: Iron ppm | Sulfate ppm | Chloride ppm | Hard. ppm

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

Taste, color, etc.

Well Number 41 16 37 N 094 52 02 (d m s N/S d m s)

HYDROLOGIC CARD

SAME AS ON MASTER CARD | Physiographic Province: CENTRAL LOWLAND (12) | Section: DISSECTED

TILL PLAIN (E) | Drainage Basin: NODAWAY (318) | Subbasin:

Topo of well site: (D) local depression, (F) flat surface, (H) hilltop, hillside, terrace, valley flat, HILLTOP — H

MAJOR AQUIFER: CRETACEOUS system, LOWER series, K1 | DAKOTA FM aquifer, formation, group — DD

Lithology: COARSE SANDST, SANDSTN | Origin: MARINE 6 | Aquifer Thickness:

Length of well open to: 5 ft | Depth to top of: 205 ft — 205

MINOR AQUIFER: system, series | aquifer, formation, group

Lithology: | Origin: | Aquifer Thickness:

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

Intervals Screened: NONE SLOTTED 235'-240'.

Depth to consolidated rock: 205 ft | 205 | Source of data: WELL CUTTINGS — C

Depth to basement: ft | Source of data:

Surficial material: NONCALC. LOESS | NQ | Infiltration characteristics: POOR — 4

Coefficient Trans: gpd/ft | Coefficient Storage:

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

CASING:

7" CASING TO 257'.

SLOTTED 235'-240'.

22
O

GPO 844-225