

WRD Exp. (GW)
April 1966

Well No. 077-16W-24BA

WELL SCHEDULE

U. S. DEPT. OF THE INTERIOR

GEOLOGICAL SURVEY

WATER RESOURCES DIVISION

MASTER CARD

Record by D. HARRISON Source of data FILE Date 7/28/66 Map 1:63,360 COUNTY HWY.

State IOWA 16 County (or town) MAHASKA 62

Latitude: 41 27 50 N Longitude: 09 23 39 10 Sequential number: 1

Lat-long accuracy: 3 T. 77 S. R. 16 E. Sec 24 NE NW SE SW

Local well number: 07716W24BA Other well number: W-4311

Local use: 04311 49 CITY 43 Owner or name: NEW SHARON TOWN UGUL (1949)

Owner or name: NEW SHARON IOWA Address: NEW SHARON, IA.

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

Use of Air cond, Bottling, Comm, Dewater, Power, Fire, Dom, Irr, Med, Ind, P S, Rec, water: P

Use of (A) (D) (G) (H) (I) (M) (N) (P) (R) (S) (T) (U) (V) (W) (X) (Y) (Z) W

well: Anode, Drain, Seismic, Heat Res, Obs, Oil-gas, Recharge, Test, Unused, Withdraw, Waste, Destroyed

DATA AVAILABLE: Well data 1 Freq. W/L meas.: INVENTORY 0 Field aquifer char. 0

Hyd. lab. data: 0

Qual. water data; type: COMPLETE C

Freq. sampling: INVENTORY 0 Pumpage inventory: yes no period: 0

Aperture cards: 0

Log data: GEOLOGIST-DRILLER'S 6:0

WELL-DESCRIPTION CARD

SAME AS ON MASTER CARD Depth well: 126 ft 126 Meas. rept DRILLER'S LOG 3

Depth cased: 96 ft 96 Casing type: STEEL ; Diam. 12 in 12

Finish: (C) porous concrete, (F) gravel w. (G) gravel w. (H) horiz. (I) open (J) screen, gallery, end, (K) perf., (L) screen, sd. pt., (M) shored, (N) open hole, (O) other G

Method: (A) air, (B) bored, (C) cable, (D) dug, (E) hyd, (F) jettied, (G) air, (H) reverse, (I) trenching, (J) driven, (K) drive, (L) rot., (M) percussive, (N) rotary, (O) wash, (P) other 0

Date Drilled: JUNE 1949 949 Pump intake setting: 0 ft 0

Driller: THORPE WELL CO. DES MOINES, IA.

Lift (A) air, (B) bucket, (C) cent, (D) jet, (E) multiple, (F) multiple, (G) none, (H) piston, (I) rot, (J) submerg, (K) turb, (L) other D Deep Shallow 0

Power (type): diesel, elec, gas, gasoline, hand, gas, wind; H.P. 0 Trans. or meter no. 0

Descrip. MP LSD above ft below LSD. Alt. MP 852

Alt. LSD: 852 852 Accuracy: ALTIMETER 7

Water Level 68 ft above MP; 68 ft below LSD Accuracy: DRILLER'S LOG D

Date JUNE 1949 649 Yield: 90 gpm 90 Method determined 0

Drawdown: 32 ft 32 Accuracy: 3 Pumping period 0 hrs 0

QUALITY OF WATER DATA: Iron 1.6 Sulfate 9.8 Chloride 7 Hard. 287 6

Sp. Conduct 532 K x 10⁶ 4 Temp. 0 Date sampled 12/13/51 D51

Taste, color, etc. 0

Punched ERC

Verified FCH

Well No. 077-16W-24BA

Well No. 077-16W-24BALatitude-longitude 41.27.50 ^N 092.39.10.1
d m s d m s

HYDROGEOLOGIC CARD

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

TILL PLAIN E Drainage Basin: SKUNK 25C Subbasin: 26

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

MAJOR Aquifer: PENNSYLVANIAN N X
system series aquifer, formation, group

Lithology: SANDSTONE V Origin: MARINE 6 Aquifer Thickness: 6 ft

Length of well open to: 30 ft 30 Depth to top of: 45 ft 45

MINOR Aquifer:
system series aquifer, formation, group

Lithology: Origin: Aquifer Thickness: ft

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

Intervals Screened: 96'-126'

Depth to consolidated rock: 45 ft 45 Source of data: WELL CUTTINGS C

Depth to basement: ft Source of data:

Surficial material: TILL T Infiltration characteristics: POOR 4

Coefficient Trans: gpd/ft Coefficient Storage:

Coefficient Perm: gpd/ft²; Spec cap: 2.8 gpm/ft; Number of geologic cards:

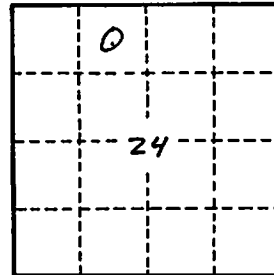
CASING:

87'3" OF 12" PIPE FROM +1'6" TO 85'

24'2" OF 10" PIPE FROM 72' TO 96'

30' OF EVERDUR SCREEN FROM 96' TO 126'

GRAVEL PACKED.

Well No. 077-16W-24BA

077-16W-24

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

W-4311

RECORD OF WELL

Location:

Town: New Sharon (NE)
(SW) : County Malaska

sec. T77N., R. 16 W. Twp. E.

Well name and number New Sharon Town Well

Owner Do Address _____

Tenant _____ Address _____

Contractor Thorpe Well Co. Address _____

Drillers _____

Drilling dates Completed June 25, 1949

Well data:

Elevations: Drilling curb _____ feet; Land surface _____ feet

Determined by _____

Topographic position _____

Total depth: Reported 126 feet, Measured _____ feet

Drilling method _____

Hole and casing data 87'3" of 12" pipe from 1'6" above ground
to 85'. 24'2" of 10" pipe from 72' to 96'. 30' of
12" Everdur screen from 96' to 126'. Gravel packed

Original depth to water 68 ^{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 _____

68

Measuring point _____

Pumping level _____

100

at _____

90

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 _____

 $\text{Fe}_2\text{O}_3 + \text{Mn}_2\text{O}_3 + \text{Al}_2\text{O}_3$ _____

Alkali as sodium _____

Calcium _____

Magnesium _____

Iron (unfiltered) _____

Manganese _____

Nitrate _____

Fluoride _____

Chloride _____

Sulfate _____

Bicarbonate _____

Hardness (ppm) _____

Hardness (gpg) _____

Remarks _____

Laboratory data:

Sample storage location CHB-5Sample range 0-133½No. spls. 29No. dupls. & cond. 29 GoodSpls. prepared by JPHRCWashed range 45-133½by VLM 7/18/50

Driller's log and cond. _____

Insoluble residues: Prepared by _____

Studied by _____

Strip log _____

Microscopic study _____

Strip log 8-7-50

Gen. log _____

Correl. by _____

