

IOWA STATE DEPARTMENT OF HEALTH
DIVISION OF PUBLIC HEALTH ENGINEERING AND INDUSTRIAL HYGIENE

GROUND WATER

Town Gowrie County Webster Date January 4 19 55

WELL NO. 3 Active Yes Standby _____ Abandoned _____ Replaced by No. _____

LOCATION: Street 300' No. of Light Plant Sec. _____ T. _____ N.R. _____ East: West _____

Lot _____ Block _____ Township _____
Date started drilling 6/20/51; Completed 8/1/51
Date Installed in use Aug. 9 1951

OWNERSHIP Municipal

CONTRACTOR Hoeg & Ames ☒ Address Lincoln 19. Dakota City

DATE RECONDITIONED None 19 _____ Contractor _____ Address _____

CONSTRUCTION EMPLOYED: New 12" well casing - grouted to a depth of 50 ft. (128 sacks cement used); 12" casing to 232' and a 16' long Johnson screen extending to bottom

CURB ELEVATION 0.00 REFERENCE Top of concrete floor of pumphouse

TYPE OF CONSTRUCTION Drilled Depth 248 ft. Diameter 12 in.

CASING: Material Steel Condition New

SCREEN: Material Bronze (Johnson) Length 16 ft. Diameter 10 in. Slot Opening 1/8" long x 32/1000 in.

WELL SEALED Yes How Cement grouted to 50' - Concrete ved. at top Approved Yes

WELL VENTED Yes How 2 vents (1- 3/4") both screened & extended up through pump base Approved Yes

TYPE OF PUMP V.T. Make Layne-Western Capacity 120' GPM Lubricated Water

DEPTH TO TOP OF ROWLS 190' (19-10' Sec. pipe) ft. Tail Pipe 10' suction pipe ft.

PUMP CONTROL: Manual Automatic _____ Semi-Automatic _____

STATIC LEVEL 120-Oct-'52 134-Dec-'54 109 ft. Pumping Level 140-Oct-'52 147-Aug-'53 147-Dec-'54 138 ft. Drawdown 29 ft.

OPTIMUM SPECIFIC YIELD 250 (at 400 gpm) GPM Drawdown _____ ft. Time _____ hrs.

RATE OF DRAWDOWN _____ Rate of Recovery _____ at pump

TEMPERATURE OF WATER 51 °F Where Measured discharge Temp. of Atmosphere _____ °F

DRAWDOWN GAUGE INSTALLED Yes

TOPOGRAPHICAL POSITION OF WELL Reasonably high area north end of town

WELL SITE INVESTIGATED Yes Approved Yes Why not _____

WELL CONSTRUCTION REVIEWED Yes Approved Yes Why not _____

PIT CONSTRUCTION: Purpose None Size and Description _____

CONDITION: _____ Drainage Facilities _____

PUMP INSTALLATION: Approved Yes Why Not _____

CUTTINGS FROM WELL PRESERVED: Yes Where Iowa Geological Survey (Cooper took samples)

DEPTH TO BED ROCK _____ Depth to Water-bearing Stratum _____

SOURCE OF WATER: Principal Formation _____ Other _____

Sand at 230' 20' of water bearing gravel

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I.P.B.

Analysis-July 17, 1951

Total Hardness 23 g/g ppm. Total Iron 2.7 ppm. Sulfates 148 ppm. Fluorine 0.6 ppm.
Manganese None ppm. pH 7.5 CO₂ ppm. P = 0 MO = 472

REMARKS: Well placed in operation with continuous chlorination Aug. 9, 1951

Pump shaft 3/4"

Well & new pipe discharge line to treatment sterilized several times and finally installed continuous chlorination to clear line.

