

GROUND WATER

Town Griswold County Cass Date May 7 1946

WELL NO. 150' NW ST Active ☒ Standby ☐ Abandoned ☐ Replaced by No.

LOCATION: Street 150' NW ST Sec. T. N.R. East: West

Lot Block Township

OWNERSHIP City Date Installed August 1944

CONTRACTOR Layne Western Address Omaha

DATE RECONDITIONED 19 Contractor Address

CONSTRUCTION EMPLOYED: 66' Gravel pack well - 18" steel casing - 25' bronze
shatter screen. 42" Temporary casing to 65' - 33 tons of gravel to
15' from surface - Remaining 15' clay & cement

CURB ELEVATION REFERENCE

TYPE OF CONSTRUCTION Gravel pack Depth 66' ft. Diameter 18" in.

CASING: Material 3/4" Arma Iron Condition New

SCREEN: Material Bronze Length 25 ft. Diameter 18" in. Slot Opening in.

WELL SEALED yes How Concrete around casing Approved yes

WELL VENTED yes How Screened vent pump base Approved yes

TYPE OF PUMP Turbine Make Layne Capacity 200 GPM Lubricated Oil

DEPTH TO CYLINDER 50 ft. Tail Pipe ft.

PUMP CONTROL: Manual ☐ Automatic ☒ Semi-Automatic ☐

STATIC LEVEL 14'-8" ft. Pumping Level 42'-6" ft. Drawdown 27'-10" ft.

OPTIMUM SPECIFIC YIELD GPM Drawdown ft. Time hrs.

RATE OF DRAWDOWN 7.2 gal/ft Rate of Recovery

TEMPERATURE OF WATER 54 °F Where Measured Pump Temp. of Atmosphere 65 °F

DRAWDOWN GAUGE INSTALLED yes

TOPOGRAPHICAL POSITION OF WELL Flat well drained area near business district

WELL SITE INVESTIGATED yes; Band Aug 1944 Approved yes Why not

WELL CONSTRUCTION REVIEWED No 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

DEPTH TO BED ROCK 69' Depth to Water-bearing Stratum 44'

SOURCE OF WATER: Principal Formation Gravel & Sand Other Limestone at 69'

Total Hardness ppm. Total Iron ppm. Sulfates ppm. Fluorine ppm.

Manganese ppm. pH CO₂ ppm.

REMARKS: Cost \$3,036. 10'x12' Frame pump house 10" Concrete
pedestal. 1" pipe floor drain 10 HP electric motor

GEOLOGICAL DATA			CASING DATA	WELL DATA	
Formation	Material and distance from surface in ft.	Series	Position, kind and extent of casing, liners, shoes, etc.	Scale: Horizontal $3\frac{1}{2}"$ Vertical $1"$	Position of seals, screens, static level, etc.

