

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

GROUND WATER

Town Red Oak County Montgomery Date May 12 1950
WELL NO. East Gravel Pack ☒ Active ☐ Standby ☐ Abandoned ☐ Replaced by No.
LOCATION: Street Sec. T. N.R. East: West
Lot Block Township
OWNERSHIP Municipal Date Installed June 1949
CONTRACTOR Layne Western Co. Address Omaha, Nebraska
DATE RECONDITIONED 19 Contractor Address
CONSTRUCTION EMPLOYED: Gravel Packed

CURB ELEVATION REFERENCE
TYPE OF CONSTRUCTION Concrete Pump Pedestal Depth 11.7 ft. Diameter 12 in.
CASING: Material Std. Steel With Std. Connections Condition New in 1949
SCREEN: Material 669. Eductor Length 60 ft. Diameter 12 in. Slot Opening in.
WELL SEALED Yes How Grouting around pump base Approved Yes
WELL VENTED Yes How Turned down EI Approved Yes
TYPE OF PUMP Vertical Turbine Make Layne Capacity 500 GPM Lubricated Water
DEPTH TO CYLINDER 80 ft. Tall Pipe 6' 1" Bowl - Strainer
PUMP CONTROL: Manual X Automatic Semi-Automatic
STATIC LEVEL 23 ft. Pumping Level 2 ft. Drawdown 52 ft.
OPTIMUM SPECIFIC YIELD 500 GPM Drawdown ft. Time hrs.
RATE OF DRAWDOWN Rate of Recovery
TEMPERATURE OF WATER 52 °F Where Measured Temp. of Atmosphere °F
DRAWDOWN GAUGE INSTALLED Yes
TOPOGRAPHICAL POSITION OF WELL Near Creek Bottom East of Town
WELL SITE INVESTIGATED Approved Yes Why not
WELL CONSTRUCTION REVIEWED Approved Why not
PIT CONSTRUCTION: Purpose None Size and Description
CONDITION: Drainage Facilities
PUMP INSTALLATION: Approved Yes Why Not
CUTTINGS FROM WELL PRESERVED: Where
DEPTH TO BED ROCK Depth to Water-bearing Stratum
SOURCE OF WATER: Principal Formation Blue Shale Other Dakota Sandstone

Total Hardness 205 ppm. Total Iron 0 ppm. Sulfates 2.0 ppm. Fluorine 0.4 ppm.
Manganese 0 ppm. pH 7 CO₂ ppm.

REMARKS: Well constructed concrete block pump house
14' x 14' Approx. Two drains in pump house one within
3' other 12' from well casing. Both drains in
C.I.P. with lead joints

NAME	ADDRESS	CITY	STATE
J. Edgar Hoover	Washington, D. C.	Washington, D. C.	District of Columbia

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 _____ Vertical _____	Position of seals, screens, static level, etc.

0-2 Top Soil
 2-22 Clay
 22-65- Fine Sandstone
 65-115- Sandstone
 115-18- Blue Shale

