

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

GROUND WATER

Town Orange City County Sioux Date August 2 19 68
WELL NO. 6 Active X Standby _____ Abandoned _____ Replaced by No. _____
LOCATION: Street Approximately 100 feet Sec. 5 T. 94 N.R. 44 East West
south of C & N W Railroad Right of Way, Airpark Industrial
near south central corporate limits. Lot 13 Block Subdivision Township Nassau
OWNERSHIP Municipal Date Installed August 19 68
CONTRACTOR Layne-Western Company Address Omaha, Nebraska
DATE RECONDITIONED _____ 19 ____ Contractor _____ Address _____
CONSTRUCTION EMPLOYED: _____
CURB ELEVATION _____ REFERENCE _____
TYPE OF CONSTRUCTION Reverse Hydraulic Depth 597 ft. Diameter 12-24 in.
CASING: Material Steel & Stainless Steel Condition New
SCREEN: Material Stainless Steel Length 140 ft. Diameter 12 in. Slot Opening 0.08 in.
WELL SEALED Yes How Concrete base and grout Approved _____
WELL VENTED Yes How Screened ell - 1 inch Approved _____
TYPE OF PUMP std. Turbine Make Layne Capacity 600 GPM Lubricated Water
DEPTH TO CYLINDER 310 ft. Tail Pipe 10 ft.
PUMP CONTROL: Manual _____ Automatic _____ Semi-Automatic _____
STATIC LEVEL 239 ft. Pumping Level 405 ft. Drawdown 66' @ 680 gpm ft.
OPTIMUM SPECIFIC YIELD _____ GPM Drawdown _____ ft. Time _____ hrs.
RATE OF DRAWDOWN _____ Rate of Recovery _____
TEMPERATURE OF WATER _____ °F Where Measured _____ Temp. of Atmosphere _____ °F
DRAWDOWN GAUGE INSTALLED Yes
TOPOGRAPHICAL POSITION OF WELL Level land
WELL SITE INVESTIGATED Yes Approved Yes Why not _____
WELL CONSTRUCTION REVIEWED Yes Approved Yes Why not Notice No. 68-71-W
PIT CONSTRUCTION: Purpose Not applicable Size and Description _____
CONDITION: _____ Drainage Facilities _____
PUMP INSTALLATION: Approved _____ Why Not _____
CUTTINGS FROM WELL PRESERVED: Yes Where I.G.S.
DEPTH TO BED ROCK _____ Depth to Water-bearing Stratum _____
SOURCE OF WATER: Principal Formation Dakota Sandstone Other _____

GEOLOGICAL DATA			CASING DATA	WELL DATA	
Formation	Material and distance from surface in ft.	Series	Position, kind and extent of casing, liners, sheets, etc.	Scale: Horizontal _____ Vertical _____	Position of scale, screens, static level, etc.

Top Soil	0 to 3 ft.
Drift	3 ft. to 69 ft.
Sand & Gravel	69 ft. to 71 ft.
Drift	71 ft. to 96 ft.
Sand & Gravel	96 ft. to 99 ft.
Drift	99 ft. to 120 ft.
Sand & Gravel	120 ft. to 125 ft.
Drift	125 ft. to 149 ft.
Sand & Gravel	149 ft. to 153 ft.
Drift	153 ft. to 174 ft.
Sand & Gravel	174 ft. to 194 ft.
Drift	194 ft. to 199 ft.
Sand & Gravel	199 ft. to 215 ft.
Drift	215 ft. to 298 ft.
Sandstone	298 ft. to 308 ft.
Shale	308 ft. to 315 ft.
Sandstone	315 ft. to 350 ft.
Sandstone with Shale	350 ft. to 354 ft.
Sandstone	354 ft. to 366 ft.
Shale	366 ft. to 368 ft.
Sandstone	368 ft. to 379 ft.
Shale	379 ft. to 422 ft.
Sandstone	422 ft. to 424 ft.
Shale	424 ft. to 426 ft.
Sandstone	426 ft. to 429 ft.
Shale	429 ft. to 440 ft.
Sandstone with Shale	440 ft. to 453 ft.
Sandstone	453 ft. to 494 ft.
Shale	494 ft. to 515 ft.
Sandstone	515 ft. to 592 ft.
Limestone	592 ft. to 594 ft.

