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

GROUND WATER

Town Livermore County Humboldt Date Jan. 12, 1944

WELL NO. 1 Active x Standby Abandoned Replaced by No.

LOCATION: Street Sec. T. N.R. East: West

Lot Block Township

OWNERSHIP Municipal Date Installed 1928

CONTRACTOR Thorpe Address

DATE RECONDITIONED 1-15 1947 Contractor Layne Western Address Des Moines Ia.

CONSTRUCTION EMPLOYED: Drilled

3" column ~~6" drop casing~~ (New V.T. installed 1-15-47)

(3 sec. of column removed in Oct 29-1956)

CURB ELEVATION REFERENCE

TYPE OF CONSTRUCTION Drilled Depth 221 1/2 ft. Diameter 10 in.

CASING: Material Wrought Iron Condition Good

SCREEN: Material Bronze Length 3 ft. Diameter in. Slot Opening in.

WELL SEALED Yes How ~~Annular opening between casing and ext. casing~~ Conc. Bed 3'3" + 12" high Approved Yes

WELL VENTED Yes How ~~Through filter valve~~ Breather Approved Yes

TYPE OF PUMP ~~Plunger~~ V.T. Make ~~Cook~~ Layne Turbine Capacity ~~300~~ 300 GPM Lubricated ~~Oil~~ water

DEPTH TO ~~CYLINDER~~ Top of Bowls 130 ~~100~~ ft. Suction Pipe 10' 4" ~~16 of 6"~~ ft.

Bowl See 5'-4" long

PUMP CONTROL: Manual ~~X~~ ✓ Automatic Semi-Automatic

STATIC LEVEL 65 ~~67~~ 48-Sept 56 ft. Pumping Level 100 86 Sept-56 ft. Drawdown 35 38 Sept. 56 ft.

OPTIMUM SPECIFIC YIELD 100 GPM Drawdown ft. Time hrs.

RATE OF DRAWDOWN Slow Rate of Recovery Fair.

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

DRAWDOWN GAUGE INSTALLED ~~No~~

TOPOGRAPHICAL POSITION OF WELL Good - high

WELL SITE INVESTIGATED Approved 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 Other

Te 120

All steel plastic lined

DATE RECONDITIONED 1-15 19 47 Contractor Layne Western Address Dr. Io.

CONSTRUCTION EMPLOYED: Drilled

3" colume ~~6" iron casing~~ (New V.T. installed 1-15-47)

(3 sac of colume replaced in Oct 29-1956)

CURB ELEVATION ____ REFERENCE ____

TYPE OF CONSTRUCTION Drilled Depth 221 1/2 ft. Diameter 10 in.

CASING: Material Wrought Iron Condition Good

SCREEN: Material Bronze Length 3 ft. Diameter ____ in. Slot Opening ____ in.

WELL SEALED Yes How ~~Annular opening between casing and ext. casing cadum and Asphalt~~ Conc. Pad 3'3" + 12" high Approved Yes

WELL VENTED Yes How ~~Through filter valve~~ Breather Approved Yes

TYPE OF PUMP ~~Plunger~~ V.T. Make ~~Cook~~ Layne Turbine Capacity ~~300~~ 300 ~~30~~ 120 against tower pressure GPM Lubricated ~~Oil~~ water

DEPTH TO ~~CYLINDER~~ Top of Bowls 130 ~~100~~ ft. Suction Tail Pipe 10 3/4" ~~10 of 6"~~ Bowl see 5'4" long ft.

PUMP CONTROL: Manual X 45 aug 53 Automatic ____ Semi-Automatic ____

STATIC LEVEL 65 ~~61~~ 48 Sept 56 ft. Pumping Level 100 95 aug 53 86 Sept 56 ft. Drawdown 35 38 Sept. 56 ft.

OPTIMUM SPECIFIC YIELD 100 GPM Drawdown ____ ft. Time ____ hrs.

RATE OF DRAWDOWN Slow Rate of Recovery Fast.

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

DRAWDOWN GAUGE INSTALLED No

TOPOGRAPHICAL POSITION OF WELL Good - high

WELL SITE INVESTIGATED ____ Approved ____ Why not ____ Te 120

WELL CONSTRUCTION REVIEWED ____ Approved ____ Why not ____ All lead plastic lined

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 ____ Other ____

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

Manganese ____ ppm. pH ____ CO_2 ____ ppm.

REMARKS: 10 HP 60 cycle GE Motor

Dec 1947 LVI. VT. miscellaneous # 1425-5

12' to dry sand

Dry sand 0 to 80'

Blue clay 0 to 80'

Sand 80 to 110

Soft lime rock 110 to 130

Hard " " 130 to 200

Soft " " 200 to 225

Shale 225 to 227

Started Dec 12 - 1927

Completed Jan 17 - 1928

