Town Valley Center County Wilcox Date Apr 4 19 53

Town well

WELL NO. 2 Active Yes Standby Abandoned Replaced by No.

LOCATION: Street Adj to EST. Sec. T. N.R. East: West

Lot Block Township

OWNERSHIP Municipal Date Installed started July 15 1946 Placed in operation Apr. 1947 19

CONTRACTOR Harold Rasmussen Address Valley Center

DATE RECONDITIONED 19 Contractor Address

CONSTRUCTION EMPLOYED: Holed drilled to approx 15" dia - after Reaming Screen + 8" Casing - cement grout Tremied around casing to depth of 445 ft Sand packing around at top of screen within between casing & screen

CURB ELEVATION 0 + 1.0 REFERENCE Top of EST. Rotary pier.

TYPE OF CONSTRUCTION Drilled - Shallow Depth 445 ft. Diameter 8 in.

CASING: Material Standard Steel pipe 25# / ft Condition New.

SCREEN: Material 7½" dia Johnson Everdur screen Length 9 ft. Diameter 7½ in. Slot Opening Size 16 slot. in.

WELL SEALED Yes How Cave fed. concrete casing Approved Yes

WELL VENTED Yes How Bronze pipe through pad - Turned down screened Approved Yes

TYPE OF PUMP Air Make Z Capacity 15 GPM Lubricated Water operated @ 90 lbs

DEPTH TO ~~CYLINDER~~ bottom of suction (Jet) line 57 ft. Tail Pipe ft.

PUMP CONTROL: Manual ✓ Automatic — Semi-Automatic

STATIC LEVEL 17 ft. Pumping Level 33.5 ft. Drawdown 16.5 ft.

OPTIMUM SPECIFIC YIELD 10 GPM Drawdown ft. Time hrs.

RATE OF DRAWDOWN Rate of Recovery

TEMPERATURE OF WATER 53 °F Where Measured pump discharge Temp. of Atmosphere 72 °F

DRAWDOWN GAUGE INSTALLED Yes.

TOPOGRAPHICAL POSITION OF WELL Flat.

WELL SITE INVESTIGATED Yes Approved Yes Nov 26-46 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 Rasmussen

DEPTH TO BED ROCK None Depth to Water-bearing Stratum 50'

SOURCE OF WATER: Principal Formation Sand + Gravel Other

Municipal analysis #4181 Oct 10-1947

Total Hardness 746 (435 grains) ppm. Total Iron 40 ppm. Sulfates 226.3 ppm. Fluorine 02 ppm.

Manganese 05 ppm. pH 72 CO_3 ppm.

REMARKS: This well still being used at full capacity.

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.
From - to	Thick - Material				
0 3	3 Black - Sewage odour at 8'				
3 16	13 Yellow Clay				
16 20	4 Dark grey silty clay,				
20 25+	5 Blue (sandy) clay - caving.				
25 49.5	45 Firm Blue clay (Stand without caving)				
49.5 58	8.5 Sand (Combination, fine + medium coarse) Some brown very fine sand to medium coarse sand with some 1/8 to 1/6 gravel				

Static level in casing = 10.0
Ground water level = 7.0

