

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

GROUND WATER

Town Manilla County Crawford Date January 28 1957

WELL NO. #2 Active Standby Abandoned Replaced by No. _____
 LOCATION: Street North of ball park, S.W. part of town Sec. 26 T. 82 N.R. 37 WEST West

Lot _____ Block _____ Township _____
 OWNERSHIP Municipal Date Installed January 1939

CONTRACTOR Frank Hunter & Son Address Perry, Iowa

DATE RECONDITIONED None 19 _____ Contractor _____ Address _____

CONSTRUCTION EMPLOYED: Drilled - gravel packed

Handwritten note:
 No. 2
 1/28/57

CURB ELEVATION _____ REFERENCE _____
 TYPE OF CONSTRUCTION Drilled - gravel packed Depth 87.0 ft. Diameter 10 in.

CASING: Material Steel Condition _____

SCREEN: Material Johnson Length 15 ft. Diameter 10 in. Slot Opening _____ in.

WELL SEALED Yes How Pump base leaded to conc. pad. 2' sq. 6" high Approved Yes

WELL VENTED Yes How 3/8" turned down screened casing vent Approved Yes

TYPE OF PUMP V.T. Make Pomona Capacity 200 GPM Lubricated Water

DEPTH TO CYLINDER 78' to top of bowls ft. Tail Pipe 3" dia. - 2 ft. long ft.

PUMP CONTROL: Manual Yes Automatic _____ Semi-Automatic _____

STATIC LEVEL 39 ft. Pumping Level 43'-1" ft. Drawdown 4'-1" ft.

OPTIMUM SPECIFIC YIELD _____ GPM Drawdown _____ ft. Time _____ hrs.

RATE OF DRAWDOWN Tested at 85 g/m (40 hrs. at 420 g/m) Rate of Recovery Fast

TEMPERATURE OF WATER ? °F Where Measured _____ Temp. of Atmosphere _____ °F

DRAWDOWN GAUGE INSTALLED Electric drawdown gauge

TOPOGRAPHICAL POSITION OF WELL Edge of lowland

WELL SITE INVESTIGATED ? Approved Yes Why not _____

WELL CONSTRUCTION REVIEWED ? Approved Yes Why not _____

PUMP CONSTRUCTION: Purpose House well & equipment Size and Description 8'x11' brick-new conc. floor - C.I.

Floor drain to outside of bldg. - Sq. D & Gen. Electric switches - Electric heater

CONDITION: New plaster and painted walls, ceiling and equipment Drainage Facilities Floor drain to dry ditch south

PUMP INSTALLATION: Approved Yes Why Not _____

CUTTINGS FROM WELL PRESERVED: ? Where _____

DEPTH TO ~~SEE ROCK~~ TOP OF GRAVEL 32 Depth to Water-bearing Stratum 32' to 87'

SOURCE OF WATER: Principal Formation Gravel Other _____

2/5/49 - Mineral Analysis
 Total Hardness 27.5-470 ppm. Total Iron 0.9 ppm. Sulfates 153.1 ppm. Fluorine 0 ppm.
 Manganese 0.3 ppm. pH 7.0 CO₂ _____ ppm.

REMARKS: Air release on turbine discharge head

*Pumped of 100 g/m water lowered	4"	or 25 gal. per min.
"	150 g/m	" " 8" " 19 gal. " "
"	220 g/m	" " 14" " 16 Gal. " "
"	350 g/m	" " 28" " 12 gal. " "
"	410 g/m	" " 28" " 35 gal. " "

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	FORMATION
0	10	10 Black earth
10	25	15 Yellow clay
25	45	20 Black clay & gravel mixed
45	60	15 Yellow clay - mixed with some gravel
60	87	27 Grey & blue clay - gravel mixed

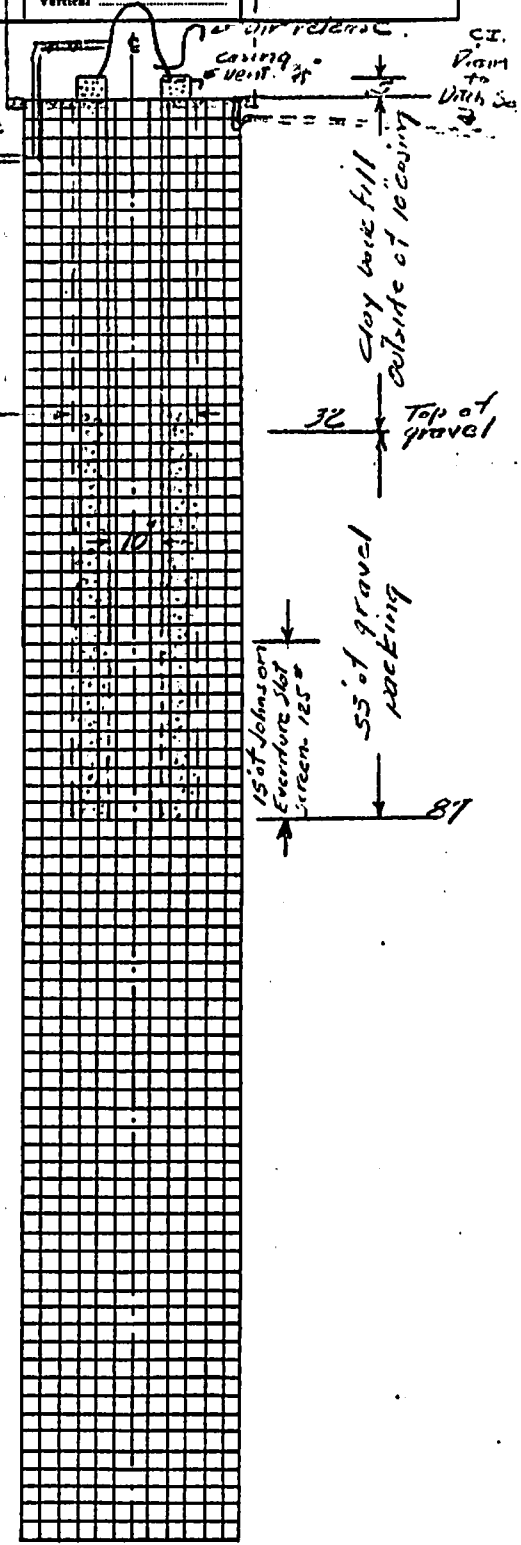
Pumphouse -- 8x11', brick - new concrete floor - cast iron floor drain to outside of building. Two windows and door opening on south. - Electric switch panel contains Sq. D and Gen. Electric equipment. Walls and ceiling of pumphouse just recently replastered and painted.

Pump discharge equipped with a check and gate valve and a sampling tap.

Electric room heater.

To subsurface reservoir

5'6" drill hole



15 ft Johnson Overburden Slot Screen 125"

55' of gravel packing

32

Top of gravel

87