

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

GROUND WATER

Town Clare County Webster Date February 17, 1958

WELL NO. 1 Active Yes Standby -- Abandoned -- Replaced by No. --

LOCATION: Street _____ Sec. 25 T. 90 N.R. 30 East West
Lot _____ Block _____ Township Jackson

OWNERSHIP Municipal Date Installed May to June 1956

CONTRACTOR Martin Well Co. - J.E. Martin Address Humboldt, Iowa

DATE RECONDITIONED June 1953 Contractor Sunberg Well Pumps Address Audubon, Ia

CONSTRUCTION EMPLOYED: 8" std. pipe driven to the 205 ft. level which is 41 ft. into sandstone. Open hole from 205 ft. to bottom of 232 ft. - Filled bottom of hole with pea gravel from 203 to 232'. - Top 16' of casing grouted.

CURB ELEVATION +1.0 REFERENCE Top of concrete pumphouse floor

TYPE OF CONSTRUCTION Deep well drilled Depth 232 ft. Diameter 8 in.

CASING: Material New std. pipe Condition new

SCREEN: Material none Length -- ft. Diameter -- in. Slot Opening -- in.

WELL SEALED Yes How 12" high 30" square concrete pedestal around casing Approved Yes

WELL VENTED yes How 1/2" turned down, screened casing vent Approved Yes

TYPE OF PUMP vertical turbine Make Layne Bowler Capacity 30 GPM Lubricated Water

DEPTH TO CYLINDER ? ft. Tail Pipe _____ ft.

PUMP CONTROL: Manual -- Automatic Yes Semi-Automatic --

STATIC LEVEL 77 ft. Pumping Level 120 ft. Drawdown 43 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 - depth of air line not known

TOPOGRAPHICAL POSITION OF WELL upland - reasonably flat

WELL SITE INVESTIGATED Yes Approved Yes xxxxxx with recommendations

WELL CONSTRUCTION REVIEWED No Approved _____ Why not _____

PIT CONSTRUCTION: Purpose None Size and Description _____

CONDITION: _____ Drainage Facilities _____

PUMP INSTALLATION: Approved Yes Why Not _____

CUTTINGS FROM WELL PRESERVED: not known Where _____

DEPTH TO BED ROCK 164 Depth to Water-bearing Stratum 164 to 232

SOURCE OF WATER: Principal Formation sandstone Other _____

DATE RECONDITIONED June 1963 Contractor Sunberg Well & Pump Address Andover, Ia
Chrom. Steel casings installed on entire shaft

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SOURCE OF WATER: Principal Formation sandstone Other ?

MINERAL SAMPLE COLLECTED 2/10/58 by X.P.B.

Total Hardness 31.0 g/8 ppm. Total Iron 16 ppm. Sulfates 287 ppm. Fluorine 0.7 ppm.

Manganese 0.14 ppm. pH 7.0 CO₂ ? ppm.

REMARKS: Plant and system placed in operation after disinfection Feb. 10, 1958.

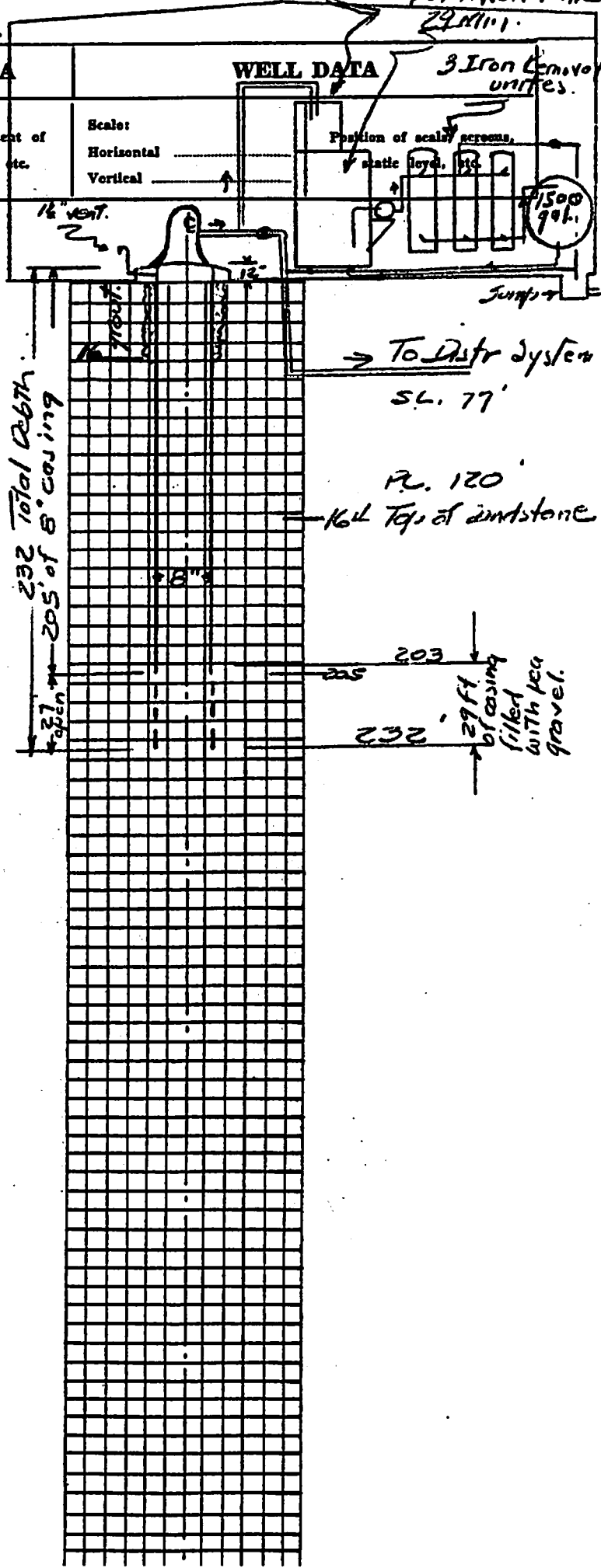
Redisinfectied March 17, 1958 and satisfactory samples secured March 20, 1958.

20423 Pump
 route Treatment 1264

Aeration tank
 Retention tank
 29 M.I.

GEOLOGICAL DATA			CASING DATA	WELL DATA
Formation	Material and distance from surface in ft.		Position, kind and extent of casing, liners, shoes, etc.	Scale: Horizontal Vertical

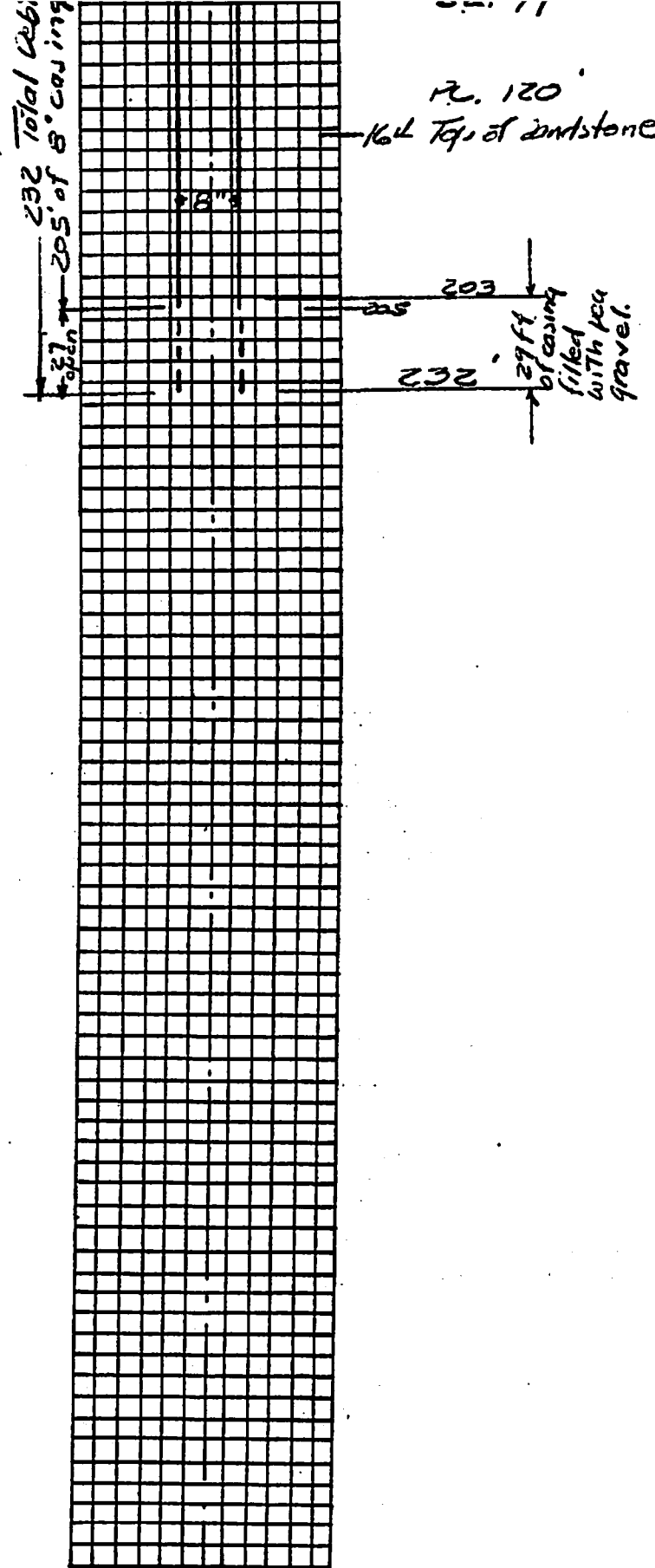
THICKNESS	FROM	TO	DESCRIPTION
26	0	26	yellow clay
72	26	98	blue clay
29	98	127	yellow clay
37	127	164	shale
29	164	193	sandstone
5	193	198	shale & rock
34	198	232	sandstone



Drove 8" pipe down to 205'
 Filled bottom with pea
 gravel - 2 ft. up inside
 the 8" pipe
 Cemented hole from top down
 16' or more
 Static head 77'
 Pumped 30 gal. per min.
 at 120'
 Pumped 47 hrs. total

8" std. pipe
 length
 20'
 17-7
 18-3
 17-11

29	98	127	yellow clay
37	127	164	shale
29	164	193	sandstone
5	193	198	shale & rock
34	198	232	sandstone



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 length
- 20'
 - 17-7
 - 18-3
 - 17-11
 - 17-9
 - 17-8
 - 17-3
 - 17-
 - 16-10
 - 16-
 - 16-1
 - 16-9

204'-6 1/2" = 209'-1" of pipe which includes overlap of threads

Martin Well Co. - J. E. Martin, Humboldt, Iowa

started May 4, 1956
 finished June 1956