

75' Dike Quad

422808N-0923950-01
86-15W-980000
1975 field 101

IOWA GEOLOGICAL SURVEY
In Cooperation with U. S. Geological Survey

W 7401

RECORD OF WELL

Location:

Town: DIKE (NE) (SW) : County GRUNDY
sec. 5 T. 88 N., R. 15 W. Twp.

Well name and number DIKE TOWN WELL

Owner TOWN OF DIKE Address _____

Tenant _____ Address _____

Contractor HOEG & AMES Address LINCOLN, IOWA.

Drillers _____

Drilling dates OCT. 3-15, 1955

Well data:

Altitudes: Drilling curb _____ feet; Land surface 953 feet

Determined by Topo C.I. 10'

Topographic position _____

Total depth: Reported 300 feet, Measured _____ feet

Drilling method CABLE TOOLS

Hole and casing data _____

8" casing from 0-137' 7"

Original depth to water 78 ^{above} ft. below LSD Date 11/15/55

Source of data Sylvan Ames

Sources of water: Principal _____

Others _____

Production Data

Date 11/15/55
 Static water level 78
 Measuring point _____
 Pumping water level 88
 Yield (g. p. m.) aver. 129
 Duration of pumping 5. hrs
 Specific capacity _____

Pump Data

Type pump _____ Column diameter and length _____
 Cylinder or bowls diameter and length _____
 Suction pipe _____ Airline _____
 Power _____ Production _____ g. p. m. for _____ hours per day
 Use of water _____

Dissolved constituents and properties (in parts per million except as indicated)

Date sampled _____
 Sampled by _____
 Silica (SiO₂) _____
 Iron (Fe) _____
 Manganese (Mn) _____
 Calcium (Ca) _____
 Magnesium (Mg) _____
 Potassium (K) _____
 Sodium (Na) _____
 Carbonate (CO₃) _____
 Bicarbonate (HCO₃) _____
 Sulfate (SO₄) _____
 Chloride (Cl) _____
 Fluoride (F) _____
 Nitrate (NO₃) _____
 Dissolved solids _____
 Hardness (as CaCO₃) _____
 Total _____
 Grains per gallon _____
 Noncarbonate _____
 Alkalinity (as CaCO₃) _____
 pH _____
 Specific conductance _____
 (micromhos at 25°C) _____
 Temperature (°F) _____
 Analysis No. _____

Laboratory Data

Well No. W 7401 Sample range 0-300 No. of samples 57
 No. of dupls. and cond. 57 Pier Washed range 40-300
 Samples prepared by Hudson + Johnson Date 12-7-55
 Logged by NONTMUP Date 2/3/56
 Correlations by NONTMUP Date 2/3/56



HOEG & AMES, INC.

WATER SYSTEMS

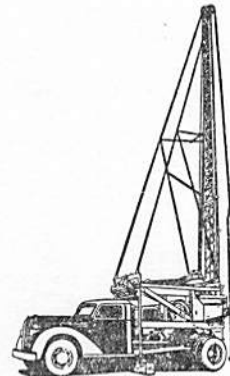
WELL CONTRACTORS

WELL SUPPLIES

☆☆☆

LINCOLN, IOWA

LOG OF WELL



TOWN OF DIKE, IOWA

Total depth of well - 300 ft.

Static water level - 78 ft.

137 ft. 7 in. of 8 in. pipe

Formation:

Black dirt	0-3 Ft.
Yellow clay	3-13 Ft.
Gray clay	13-87 Ft.
Shale	87-127 Ft.
Shale and rock	127-134 Ft.
Rock	134-300 Ft.

Started drilling Oct. 3, 1955 and finished Oct. 15, 1955



HOEG & AMES, INC.

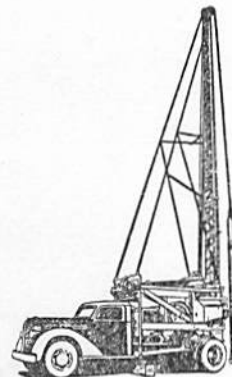
WATER SYSTEMS

WELL CONTRACTORS

WELL SUPPLIES

☆☆☆

LINCOLN, IOWA



TOWN OF DIKE PUMPING TEST

<u>TIME</u>	<u>WATER LEVEL</u>	<u>GAL. PER MIN.</u>	<u>REMARKS</u>
10:45	79 ft. 8 in.		
10:52	81 ft. 5 in.	105	
10:57	83 ft. 6 in.	105	
11:15	83 ft. 6 in.	112	
11:20	83 ft. 2 in.		
11:24	83 ft. 2 in.	112	
11:42	83 ft. 2 in.		
11:46	83 ft. 2 in.	112	
12:00	83 ft. 2 in.		
12:15	83 ft. 2 in.		
12:47	83 ft. 2 in.	112	
1:02	87 ft. 2 in.		
1:08	88 ft. 2 in.	196	
1:30	87 ft. 3 in.		
1:33	87 ft. 3 in.	182	Started city pump
1:35	87 ft. 5 in.		
1:42	87 ft. 9 in.		
1:52	87 ft. 10 in.		Shut down
2:45	83 ft.	126	
2:50	84 ft. 2 in.		
3:12	85 ft.		
3:30	85 ft.	126	
3:45	85 ft.		
3:50	85 ft.		Quit pumping
3:51	79 ft. 8 in.		