

071-10w-07D

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

W 9821

RECORD OF WELL


Location:

Town: LIBERTYVILLE (NE) (SW) : County JEFFERSON

NW NW SW sec. 22 T. 72 N., R. 10 W. Twp.

Well name and number \_\_\_\_\_

Owner LIBERTYVILLE TOWN TRST #6 (1957) Address \_\_\_\_\_

Tenant MADE WELL Address \_\_\_\_\_

Contractor THORPE WELL CO. Address DES MOINES, IOWA

Drillers PAUL FRIZELL

Drilling dates OCT. 29, 1957

Well data:

Altitudes: Drilling curb \_\_\_\_\_ feet; Land surface \_\_\_\_\_ feet

Determined by \_\_\_\_\_

Topographic position \_\_\_\_\_

Total depth: Reported 40 feet, Measured \_\_\_\_\_ feet

Drilling method \_\_\_\_\_

Hole and casing data 27' 8" OF 6" CASING FROM 3' 8" ABOVE GROUND SURFACE

TO 24'

5' OF SCREEN 24' - 29'

10/31/57 HOLE WAS REAMED TO 15" - PIPE AND SCREEN SET

AND GRAVEL PLACED 11/1/57 SET JET @ 28' AND TEST PUMPER RM 6 HRS.

Q 25 GPM

Original depth to water \_\_\_\_\_ above \_\_\_\_\_ ft. below \_\_\_\_\_ Date \_\_\_\_\_

Source of data \_\_\_\_\_

Sources of water: Principal \_\_\_\_\_

Others \_\_\_\_\_

Production Data

Date \_\_\_\_\_  
 Static water level \_\_\_\_\_  
 Measuring point \_\_\_\_\_  
 Pumping water level 27112  
 Yield (g. p. m.) 25  
 Duration of pumping 6 HOURS  
 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 (SiO<sub>2</sub>) \_\_\_\_\_  
 Iron (Fe) \_\_\_\_\_  
 Manganese (Mn) \_\_\_\_\_  
 Calcium (Ca) \_\_\_\_\_  
 Magnesium (Mg) \_\_\_\_\_  
 Potassium (K) \_\_\_\_\_  
 Sodium (Na) \_\_\_\_\_  
 Carbonate (CO<sub>3</sub>) \_\_\_\_\_  
 Bicarbonate (HCO<sub>3</sub>) \_\_\_\_\_  
 Sulfate (SO<sub>4</sub>) \_\_\_\_\_  
 Chloride (Cl) \_\_\_\_\_  
 Fluoride (F) \_\_\_\_\_  
 Nitrate (NO<sub>3</sub>) \_\_\_\_\_  
 Dissolved solids \_\_\_\_\_  
 Hardness (as CaCO<sub>3</sub>) \_\_\_\_\_  
     Total \_\_\_\_\_  
     Grains per gallon \_\_\_\_\_  
     Noncarbonate \_\_\_\_\_  
 Alkalinity (as CaCO<sub>3</sub>) \_\_\_\_\_  
 pH \_\_\_\_\_  
 Specific conductance \_\_\_\_\_  
     (micromhos at 25°C) \_\_\_\_\_  
 Temperature (°F) \_\_\_\_\_  
 Analysis No. \_\_\_\_\_

Laboratory Data

Well No. **W 9821** Sample range 0-40 No. of samples 8  
 No. of dupls. and cond. 8 Good Washed range \_\_\_\_\_  
 Samples prepared by C. Huxel Date 6/24/58  
 Logged by NORTON Date 8/13/57  
 Correlations by \_\_\_\_\_ Date 8/13/57

# THORPE WELL COMPANY

2340 SIXTH AVENUE  
DES MOINES, IOWA

W-9821

Drilled for Libertyville at Libertyville, Iowa

Well is located 5 1/4 miles N-E-S-W and 32 miles N-E-S-W from

in the SW NW NW SW 32 7 Township 72 N Range 10W

Drilling started October 29, 19 57 Completed October 29, 19 57

Well No. 6 Kind of Well Test Depth 40' Size hole started 5-5/8" in.

Finish 15" G. P. M. 25 Static Head \_\_\_\_\_ Pumping level from surface \_\_\_\_\_

Water was first encountered at \_\_\_\_\_ in \_\_\_\_\_ Approx. Amt. \_\_\_\_\_ Temp. \_\_\_\_\_

Remarks 10/31--This test hole was reamed to 15", pipe and screen set and gravel placed. 11/1--Set jet at 28' and test pumped 6 hrs. at 25 gpm at 27 1/2'

(GIVE DETAILS OF PERFORATED PIPE AND SEALS)

RECORD OF PERMANENT PIPE					TEMPORARY PIPE	
SIZE PIPE	AMOUNT OF PIPE	DEPTH TO BOTTOM OF PIPE	DEPTH TO TOP OF PIPE	MAKE OF PIPE	SIZE PIPE	AMOUNT
6"	27'8"	24'	3'8" above surface	Steel T&C		
8"	5'	29'		1/8" slot Everdur Screen		

Driller Paul Frizell From Surface to 40' feet

Driller \_\_\_\_\_ From \_\_\_\_\_ feet to \_\_\_\_\_ feet

Driller \_\_\_\_\_ From \_\_\_\_\_ feet to \_\_\_\_\_ feet

AMOUNT IN FEET	KIND OF SOIL OR FORMATION (BE SPECIFIC)	TOTAL DEPTH FEET
<u>17 1/2</u>	Black Topsoil	2
<u>3</u>	Brown and Gray Clay	5
<u>5</u>	Gray Clay, Sandy	10
<u>5 1/2</u>	Medium to Coarse Sand	15 1/2
<u>10</u>	Dark Brown Clay, Soft	25 1/2
<u>3 1/2</u>	Medium to very Coarse Sand Granules and Pebbles--clay streak at 27'	29
<u>4</u>	Light Gray Clay	33
<u>6</u>	Coal	39
<u>1</u>	Dark Brown Drift Shale	40

*This is the 1st production well on the Big Cedar Creek bottoms, second well by Schlicker, Apr. 1963. 30 ft T.D., 10 gpm*