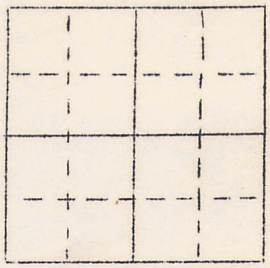
IOWA GEOLOGICAL SURVEY
In Cooperation with U. S. Geological Survey

N-0043



RECORD OF WELL

Location:

Town: Webster City (N E / S W); County Hamilton

SE-SE-SE sec. 32 T. 89 N., R. 25 E. W. Cass Twp.

Well name and number City Well

Owner _____ Address _____

Tenant _____ Address _____

_____

Contractor Thorpe Well Co Address Des Moines

Drillers _____

Drilling dates Completed Jan. 1 1925

Well data:

Elevations: Drilling curb 1026 feet; Land surface _____ feet

_____

_____

Determined by Alt. N.E.H.

Topographic position _____

Total depth: Reported _____ feet, Measured 1805 feet

_____

Drilling method _____

Hole and casing data 105' of 16" 0-105' 12" to 560'; 10" to 1420' 8" 1420-1520

(Give amount, size, kind, and depth of all casing; type and position of seals and packers; cementing; how finished--perforated pipe, screen, gravel pack, open hole, etc.)

_____

_____

_____

Original depth to water _____ ft. above / below _____ Date _____

Original elevation of water level _____ ft.; Source of data _____

_____

Sources of water: Principal _____; Others _____

_____

Production data: Date _____

Static depth to water 7' Measuring point _____

Pumping level 32 at 1700 g.p.m.

Specific capacity _____ g.p.m. per ft. drawdown; Temperature _____ °F.

Pump data; Type pump _____ Column Dia. _____ Length _____

Cylinder or bowls: Dia. _____ Length _____ Suction pipe _____

Power _____ Airline _____

Estimated rate of production: _____ g.p.m. for _____ hrs. a day

Use of water _____

WATER ANALYSES (in parts per million)

Date sampled				
Sampled by				
Total solids				
Insoluble matter				
Alkalinity (Meo)				
Alkalinity (Phn)				
pH				
Fe_2O_3+ Mn_2O_3+Al_2O_3				
Alkali as sodium				
Calcium				
Magnesium				
Iron (unfiltered)				
Manganese				
Nitrate				
Fluoride				
Chloride				
Sulfate				
Bicarbonate				
Hardness (ppm)				
Hardness (gpg)				

Remarks _____

Laboratory data: Sample storage location _____

Sample range 120-530, 540-1020, 1030-1700 No. spls. 164 No. dupls. & cond. 0

Spls. prepared by _____ Washed range _____ by _____

Driller's log and cond. _____

Insoluble residues: Prepared by _____ Studied by _____ Strip log _____

Microscopic study — strip log Carrier, W.C.S., Carmody

Gen. log _____ Correl. by _____

R-1-B

THORPE WELL COMPANY

2340 SIXTH AVENUE
DES MOINES, IOWA

Drilled for City of Webster City *at* Webster City, Ia

Well is located _____ *miles N-E-S-W and* _____ *miles N-E-S-W from* _____

in the _____ ¼ _____ ¼ *Section* _____ *Township* _____ *Range* _____

Drilling started _____ *19*____ *Completed* 1/1/25 *19*____

Well No. _____ *Kind of Well* Drilled *Depth* 1805' *Size hole started* 20" *in.*

Finish 8" *G. P. M.* 1700 *Static head* 7' *Drawdown* 25'

Water was first encountered at 600' *in* _____ *Approx. Amt.* small amt. *Temp.* _____

Remarks Small flows at 600 and 1100' were cased out. Water flowed until depth of 1620' reached
25' of concrete between 16 and 12" casing

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
16"		105'				
12		560'				
10		1420				
8		1520	1420'			

Driller _____ *From Surface to* _____ *feet*

Driller _____ *From* _____ *feet to* _____ *feet*

Driller _____ *From* _____ *feet to* _____ *feet*

AMOUNT IN FEET	KIND OF SOIL OR FORMATION (BE SPECIFIC)	TOTAL DEPTH FEET
103	Glacial drift	103
17	Mississippian rock	120
160	Limestone	280
10	Chert- blue & white	290
50	Limestone	340
20	Shale- green	360
30	Limestone	390
10	Shale- light green- gray	400
10	Limestone	410
10	Shale- greenish	420
100	Limestone	520
10	Shale- gray	530
40	Limestone	570
50	Dolomite	620
30	Limestone	650
10	Shale	660
60	Limestone	720
20	Dolomite	740
20	Limestone	760
10	Shale- blue	770
50	Limestone	820
10	Gypsum- white- some limestone	830
40	Limestone	870
20	Gypsum	890
70	Limestone	960
60	Shale	1020
50	Limestone	1070
80	Dolomite	1150
210	Limestone	1360

(OVER)

Amount in feet	Kind of soil or formation	Total depth feet
10	Shale	1370
10	L imestone	1380
30	Shale	1410
50	St. peter sandstone	1460
120	Dolomite	1580
80	Sandstone	1660
145	Dolomite	1805