

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

W-0043

RECORD OF WELL

Location:

Town: Webster City ( N E )  
( S W ); County Hamilton  
SE-SF-SF sec. 32 T. 89 N., R. 25 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 A.T. 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 510' 10" to 1420' 8" 1420-  
(Give amount, size, kind, and depth of all casing; type and  
1520  
position of seals and packers; cementing; how finished--perforated pipe, screen,  
gravel pack, open hole, etc.)

Original depth to water \_\_\_\_\_ above  
ft. 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 <sub>2</sub> O <sub>3</sub> + Mn <sub>2</sub> O <sub>3</sub> + Al <sub>2</sub> O <sub>3</sub>	_____	_____	_____	_____
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 1030-1110 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., Carmandy  
Gen. log \_\_\_\_\_ Correl. by \_\_\_\_\_



## THORPE WELL COMPANY

2340 SIXTH AVENUE  
DES MOINES, IOWADrilled 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 \_\_\_\_\_  $\frac{1}{4}$  \_\_\_\_\_  $\frac{1}{4}$  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		1120				
8		1520	1120'			

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	Limestone	1380
30	Shale	1410
50	St. peter sandstone	1460
120	Dolomite	1580
80	Sandstone	1660
145	Dolomite	1805

DATE	AMOUNT	NOTES	DEPTH TO TOP OF PIPE	NAME OF PIPE	DATE	AMOUNT
12						
12						
12						
8						

DEPTH IN FEET	NAME OF SOIL OR FORMATION (SEE REMARKS)	TOTAL DEPTH FEET
105	Glacial drift	105
120	Unconsolidated rock	120
130	Limestone	130
140	Shale - blue & white	140
150	Limestone	150
160	Shale - green	160
170	Limestone	170
180	Shale - light green - gray	180
190	Limestone	190
200	Shale - greenish	200
210	Limestone	210
220	Shale - gray	220
230	Limestone	230
240	Dolomite	240
250	Limestone	250
260	Shale	260
270	Limestone	270
280	Dolomite	280
290	Limestone	290
300	Shale - blue	300
310	Limestone	310
320	Shale - white - some limestone	320
330	Limestone	330
340	Dolomite	340
350	Limestone	350
360	Shale	360
370	Limestone	370
380	Shale - blue	380
390	Limestone	390
400	Dolomite	400
410	Limestone	410
420	Shale	420
430	Limestone	430
440	Dolomite	440
450	Limestone	450
460	Shale	460
470	Limestone	470
480	Dolomite	480
490	Limestone	490
500	Shale	500