

THORPE WELL COMPANY

2340 SIXTH AVENUE
DES MOINES, IOWA

W#41479

THIS RECORD IS MICROFILMED 9-61

Drilled for City Water Works at Pocahontas, Iowa

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

in the _____ $\frac{1}{4}$ Section _____ Township _____ Range _____

Drilling started 1-10 19 61 Completed 2-16 19 61

Well No. No. 3 ~~1-61~~ Kind of Well Gravel pack Depth 257' Size hole started 42" in

Finish 29" G. P. M. 520 Static Head 46' Pumping level from surface 138'

Water was first encountered at _____ in _____ Approx. Amt. _____ Temp. 55°

Remarks _____

(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
30"	215'	214'	1'	steel casing		
13 3/8"	228'	227'	1'			
16"	30'	257'	227'	Everdur screen		

RECEIVED
 DEPARTMENT OF
 WATER & AIR POLLUTION
 CONTROL
 8 APR 10 1962

Driller Guy Lemar From Surface to _____ feet

Driller Bill Faust From _____ feet to _____ feet

Driller Bob Yarbrow From _____ feet to _____ feet

AMOUNT IN FEET	KIND OF SOIL OR FORMATION (BE SPECIFIC)	TOTAL DEPTH FEET
2	Top soil	2
8	Sandy yellow clay	10
95	Sandy gray clay & boulders	105
20	Fine sand & clay streaks	125
49	Gray shale	174
5	Red shale	179
35	Gray shale	214
43	Med. to fine sand, limestone & shale	257

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

GROUND WATER

Town POCAHONTAS County POCAHONTAS Date March 1 1961

WELL NO. 11 Active Standby Abandoned Replaced by No. _____

LOCATION: Street 1st Street, Northeast Sec. T N.R. _____ East: West _____
and 2nd Street, Northeast
 Lot _____ Block _____ Township _____

OWNERSHIP Municipal Date Installed February 16 1960

CONTRACTOR Thorpe Well Company Address Des Moines, Iowa

DATE RECONDITIONED _____ 19____ Contractor _____ Address _____

CONSTRUCTION EMPLOYED: Gravel-packed Drilled well
42" hole started - 29" hole at finish

CURB ELEVATION _____ REFERENCE _____

TYPE OF CONSTRUCTION Gravel-Packed Drilled Depth 257 ft. Diameter 12 in.

CASING: Material Steel Condition New

SCREEN: Material Copper-Bronze Length 30 ft. Diameter 16 in. Slot Opening _____ in.

WELL SEALED Yes How Concrete Approved Yes

WELL VENTED Yes How Turned-down Vent Piping Approved Yes

TYPE OF PUMP Turbine Make Pomona Rated 500 GPM (Actual)
 Capacity 400 GPM Lubricated _____

DEPTH TO CYLINDER _____ ft. Tail Pipe _____ ft.

PUMP CONTROL: Manual Automatic Semi-Automatic

STATIC LEVEL 36 ft. Pumping Level 46 ft. Drawdown 10 ft.

OPTIMUM SPECIFIC YIELD 520 GPM Drawdown 102 ft. Time 4 1/2 hrs.

RATE OF DRAWDOWN _____ Rate of Recovery _____

TEMPERATURE OF WATER 50 °F Where Measured SAMPLING TAP Temp. of Atmosphere 32 °F

DRAWDOWN GAUGE INSTALLED Yes

TOPOGRAPHICAL POSITION OF WELL Plain Area

WELL SITE INVESTIGATED Yes Approved Yes Why not _____

WELL CONSTRUCTION REVIEWED Yes Approved Yes Why not _____

PIT CONSTRUCTION: Purpose _____ Size and Description _____

CONDITION: _____ Drainage Facilities _____

PUMP INSTALLATION: Approved _____ Why Not _____

CUTTINGS FROM WELL PRESERVED: _____ Where _____

DEPTH TO BED ROCK _____ Depth to Water-bearing Stratum 174

SOURCE OF WATER: Principal Formation Shale and Limestone Other _____

GEOLOGICAL DATA			CASING DATA	WELL DATA	
Formation	Material and distance from surface in ft.	Series	Position, kind and extent of casing, liners, shoes, etc.	Scales: Horizontal $\frac{1/8" = 4'}$ Vertical $1" = 30'$	Position of seals, screens, static level, etc.

TOP SOIL	2'	
SANDY YELLOW CLAY	10'	
SANDY GRAY CLAY & Boulders	105'	
FINE SAND AND CLAY STREAKS	125'	
GRAY SHALE	174'	
RED SHALE	179'	
GRAY SHALE	214'	
MED. TO FINE SAND-LIMESTONE AND SHALE	257'	

