THORPE WELL COMPANY

2340 SIXTH AVENUE
DES MOINES, IOWA

Drilled for City Water Works at Carroll, Iowa

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

in the ____ ¼ ____ ¼ Section ____ Township ____ Range ____

Drilling started November 16 19 56 Completed January 31 19 57

Well No 11 Kind of Well Gravel Pack Depth 189' Size hole started 40" in.

Finish ____ G. P. M. 900 Static Head 51' Pumping level from surface 85'

Water was first encountered at ____ in ____ Approx. Amt. ____ Temp. ____

Remarks 30#' cemented from 113' to the surface - 675 sacks.

(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"	123'	113'	10' above ground level		56"	6'
12"	133'	123'	10' above ground level			
12"	65'	186'	121'	Everdur screen & blank		

(arranged from top down - 10' of blank, 10' of screen, 25' of blank, 20' of screen, with an Everdur tapered seal inserted at top of screen - seal is 5' long with bottom 9 1/4" O. D. Top 11 1/4" O. D. and flared)

Driller DON KUNKLE From Surface to ____ feet

Driller Bob Wall From ____ feet to ____ feet

Driller ____ From ____ feet to ____ feet

AMOUNT IN FEET	KIND OF SOIL OR FORMATION (BE SPECIFIC)	TOTAL DEPTH FEET
6	Top soil	6
5	Black gumbo	11
6	Blue clay	17
5	Fine sand & gravel	22
3	Gray clay	25
5	Brown clay - rocks at 26'	30
37	Gray clay - rocks at 47'	67
5	Dark brown clay	72
13	Light brown clay - rocks at 81'	85
5	Brown and gray clay	90
10	Dark brown clay & fine sand	100
12	Yellow and gray clay, fine sand	112
2	Brown clay, sand	114
22	Sandstone - hard	136
7	Brown and gray clay, streaks of sandstone	143

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DES MOINES, IOWA

*Drilled for*_____ *at*_____

*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*_____ *19*____

*Well No.*_____ *Kind of Well*_____ *Depth*_____ *Size hole started*_____ *in.*

*Finish*_____ *G. P. M.*_____ *Static Head*_____ *Pumping level from surface*_____

*Water was first encountered at*_____ *in*_____ *Approx. Amt.*_____ *Temp.*_____

*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

Driller Don Kunkle (Cont.) *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
13	Gray shale streaks of sandstone	156
24	Sandstone - hard	180
9	Fine sand to course gravel, yellow clay	189