#32724

Northway Well and Pump Co.

4895 8th Avenue
Marion, Iowa 52302
Phone 319/377-6339

approx 89N-13W NW/C sec 29

Drilled for City Water Works at Cedar Falls, Iowa

Well is located ____ miles N-E-S-W and ____ miles N-E-S-W from Green Hill Rd.

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

Drilling started June 17 19 91 Completed August 27 19 91

Well No. 11 Kind of Well Drilled Rock Depth 200' Size hole started 30" in

Finish 20" G. P. M. 4600 Static Head 56' Pumping level from surface 72'

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
		111' 6"	2'6" above ground level		30"	114'
24"	158'	155'	3' above ground level	A53B casing .500 wall		
18"	45' screen 5' casing	200'	150'	Packer installed .150 S.S. screen		

Driller Leon Carpenter From Surface to 200 feet

Driller Tom Engelken From Surface feet to 200 feet

Driller Kevin Northway From 150 feet to 190 feet

AMOUNT IN FEET	KIND OF SOIL OR FORMATION (BE SPECIFIC)	TOTAL DEPTH FEET
3'	Top Soil	3'
6'	Clay, Sand	9'
11'	Sand, Small Gravel	20'
65'6"	Till	85'6"
4'6"	Shale, Brown Limestone, Till	90'
5'	Brown Limestone - Fractured	95'
9'	Clay, Till	104'
17'	Brown Limestone - Fractured	121'
14'	Brown Limestone - Clay Streaks	135'
6'	Dolomite - Hard	141'
11'	Brown Limestone, Yellow Clay Streaks	152'
3'	Brown Limestone	155'
20'	Brown Limestone - Broken	175'
2'	Brown Limestone - Hard	177'
5'	Brown Limestone - Broken	182'
1'	Crevis	183'
5'	Brown Limestone - Hard	188'
5'	Brown Limestone - Broken	193'
2'	Brown Limestone - Broken, Yellow Clay	195'
2'	Brown Limestone - Broken	197'
3'	Brown Limestone - Hard	200'