

**WATER WELL DEVELOPMENT**  
**WELL NO 1**  
**ELY, IOWA**  
**1970**

HOWARD R. GREEN, CO.  
*Consulting Engineers*  
 CEDAR RAPIDS, IOWA

**~~GEOLOGICAL FORECAST~~**

**CONSTRUCTION LOG**

SYSTEM	FORMATION	DESCRIPTION	THICKNESS FEET	FROM FEET	TO FEET	ELEVATION - 722 MSL	TOTAL DEPTH - FEET	LENGTH SECTION - FEET	DIAMETER OF BORE - INCHES	CASING O.D. INCHES	CASING I.D. INCHES	TYPE CASING	WALL THICKNESS
Quaternary	Pleistocene	Sand, gravel, drift, silt	100'	0'	100'		110	110	20	20	19.5	steel	0.25
							191	193.5	20	13.4	12.4	steel	0.50
Silurian	Niagara	Dolomite (slightly porous)	155'	100'	255'								
Ordovician	Alexandria Kankakee	Dolomite (slightly porous), chert	74'	255'	329'		318		12"				
	Maguoketa Brainerd	Dolomite grading to shale, minor pyrite.					358	40	12	10.75	10.25	steel	0.25
Ordovician	Maguoketa Ft. Atkinson	Dolomite grading to shale, chert, minor pyrite	76'	329'	405'		415						
			10'	405'	415'				10				

NOTE:  
 THIS DRAWING AS BUILT.

SCALE: HORZ. 1" = 40'  
 VERT. 1" = 40'



# L. F. WINSLOW

Well Drilling

P. O., WALCOTT, IOWA, R. R. 1 52773  
RES., MAYSVILLE, IOWA

6 copies

For TOWN OF ELY IOWA Located at \_\_\_\_\_

Make, Kind and Size of Power \_\_\_\_\_

Bowl No. \_\_\_\_\_ Size \_\_\_\_\_ Stages \_\_\_\_\_

Column Setting 150 ft. Size 6" Shaft size 1 1/4" and \_\_\_\_\_

Static Level Before Pumping 14' After Pumping 102' Temperature 60°

Date	Time	Engine R.P.M.	Pump R.P.M.	Pumping Level	Gallons Per. Min.	Temp. Discharge Description	Sand P.P.M. Volume	
2-8-71	3:30 <sup>P.M.</sup>			14'	302'			
	4:00			90'	200			
	4:30			96'	200			
	5:00			125'	225			
	5:30			140	255			
2-9-71	7:00 <sup>AM</sup>			14'	302			
	7:30			80'	234			
	8:00			90	205			
	8:30			96	185			
	9:00			96	185			
	9:30			125	225			
	10:00			138	250			
	10:30			138	234			
	11:00			138	234			
	11:30			138	234			
	12:00			138	234			
	12:30			138	234			
	1:00	- RECOVERY TEST -				138' - To 26' - IN 10 MIN'		
	1:10			26	185			
	1:20			95	185			



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For \_\_\_\_\_ Located at \_\_\_\_\_

Make, Kind and Size of Power \_\_\_\_\_

Bowl No. \_\_\_\_\_ Size \_\_\_\_\_ Stages \_\_\_\_\_

Column Setting \_\_\_\_\_ ft. Size \_\_\_\_\_ Shaft size \_\_\_\_\_ and \_\_\_\_\_

Static Level Before Pumping \_\_\_\_\_ After Pumping \_\_\_\_\_ Temperature \_\_\_\_\_

Date	Time	Engine R.P.M.	Pump R.P.M.	Pumping Level	Gallons Per. Min.	Temp. Discharge Description	Sand P.P.M. Volume
	1:30			95'	185		
	1:40			105'	185		
	1:50			106'	185		
	2:00			102	185		
	2:10			101	185		
	2:20			102	185		
	2:30			102	185		
	2:40			102	185		
	2:50			101	185		
	3:00			100	185		
	3:10			102	185		
	3:20			100	185		
	3:30			102	185		
	3:40			102	185		
	3:50			102	185		
	4:00			102	185		
	4:10			102	185		
	4:20			102	185		
	4:30			100	185		
	4:40			100	185		
	4:50			100	185		



