



#18461

## DRILLER'S NOTE

It is important that a driller's notebook, filled out as completely as possible, be sent to the Iowa Geological Survey at the completion of each hole. A number of drillers have found it convenient to string samples from a single well on a heavy wire and attach the log book to them. A hole has been punched in the log book for this purpose.

Sample sacks and log books will be furnished by the Geological Survey. A copy of the log book will be made and returned if desired by the driller.

## SUGGESTIONS TO DRILLERS

1. Samples should be taken from each bed passed through, and never more than 5 feet apart, even in the same bed.

2. Samples should not be washed, except to remove excess drilling mud, as washed samples may give a wrong idea of the character of the bed.

3. Fill out the label on each sample bag with the name of the well and the depth interval which the sample represents.

4. Make frequent use of the "Description" column to explain the material being drilled.

5. Note depth and thickness of all water-bearing layers.

6. Note the quality of the water from each layer: as hard, soft, salty, alkaline, or sulphur bearing.

7. Note height to which water from each layer rises in well, and give flow or capacity in gallons per minute.

8. Fossils, such as oyster, clam, and other shells, are important and should be placed in bags with the material with which they are found and carefully labeled as to the depth from which they were obtained.

9. If you do not understand what is wanted, or desire information on any point, write to the Iowa Geological Survey, Iowa City, Iowa.

10. Samples may be boxed and sent to IOWA GEOLOGICAL SURVEY, IOWA CITY, IOWA, EXPRESS COLLECT.

The Iowa Geological Survey desires to assist and cooperate with owners and drillers in every way possible, and will be glad to answer questions and assist in the solution of problems at any time.

A-8823

## WELL RECORD

Well is located  $\frac{1}{2}$  miles S and  $\frac{1}{2}$  miles S from  
~~N~~ ~~E~~ ~~W~~ ~~N~~ ~~E~~ ~~W~~

Greenville in Clay  
 (Nearest Town) (County)

in the NW  $\frac{1}{4}$  NW  $\frac{1}{4}$  Sec. 32 T. 95 R. 36

Owner Carl Abel Well No. 1

Postoffice address Greenville

Contractor Middendorf Well Co

Address Simpson Rapids

Driller Elmer Bright

Well begun March 28, 1966

completed April 22, 1966

Rig used—Cable, Rotary, Jet, or

Depth of well 517  
 (Feet)

Size of hole (note total amount of each size) 7" O.D.

pipe

Main water supply at 510  
 (Feet below surface)

Final water head 210  
 (Feet above or below surface)

Is well pumped? yes

Yield tested 25 gal a M  
 (Gallons per minute)

Water level when pumping 8 ft draw down

Position of well

(Upland, valley, side hill, etc.)





SAMPLE NO.	DEPTH		THICKNESS
	From	To	
	85	90	
	90	95	
	95	100	
	100	105	
	105	110	
	110	115	
	115	120	
	120	125	
	125	130	
	130	135	
	135	140	
	140	145	
	145	150	
	150	155	
	155	160	
	160	165	
	165	170	

DESCRIPTION OF BEDS  
KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.

*blue clay*







SAMPLE NO.	DEPTH		THICKNESS	DESCRIPTION OF BEDS
	From	To		KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.
	350	355		yellow shale with red streaks
	355	360		}
	360	365		
	365	370		gray shale
	370	375		}
	375	380		
	380	385		}
	385	390		
	390	395		red shale
	395	400		}
	400	405		
	405	410		gray shale red streaks
	410	415		}
	415	420		
	420	425		gray shale
	425	430		}
	430	435		
				gray shale red streaks

SAMPLE NO.	DEPTH		THICKNESS	DESCRIPTION OF BEDS
	From	To		KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.
	435	440	gray shale + red streaks	}
	440	445		
	445	450		
	450	455		
	455	460	yellow shale	}
	460	465	" "	
	465	470	blue shale	}
	470	475	" "	
	475	476	" "	
	476	478	limestone no water	} 510-512 limestone 512-514 shale 514-517 limestone
	478	480	blue shale	
	480	485	" "	
	485	490		
	490	495		
	495	498		
	498	500	lime stone	
	500	501	blue shale	
	502	505	lime stone	
	505	510	" "	

7" casing

FOR FIGURING, CASING TALLY, ETC.

1519

- 1- 21-3
- 2- 21-11
- 3- 21-3
- 4- 20-3
- 5- 22-7
- 6- 22-0
- 7- 22-6
- 8- 21-2
- 9- 24-2
- 10- 21-7
- 11- 22-6
- 12- 19-1
- 13- 22-11
- 14- 19-3
- 15- 21-3
- 16- 20-4
- 17- 20-3
- 18- 21-7

- 19- 22-
- 20- 21-2
- 21- 21--
- 22- 20-8
- 23- 20-6
- 24- 11-6
- 25- 4-8
- 25- 3-

151-9  
454  
1911

196-1  
240-2

151-9 4-7  
474-3

FOR FIGURING, CASING TALLY, ETC.

- 428-
- 21
- 449-
- 20-8
- 4698
- 20-6
- 490-2
- 11-6
- 501-8
- 48
- 5064
- 501-8
- 48
- 5064
- 501-8
- 3-0
- 504-8

- 151-9
- 454
- 196-1
- 433
- 240.2
- 19-1
- 259-3
- 22-11
- 282-2
- 19-3
- 301-5
- 21-3
- 322-8
- 20-4
- 343-
- 20-3
- 363-3
- 21-7
- 384-10
- 22-
- 406-10
- 21-2
- 428-