

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.

PB-11733

WELL RECORD

Well is located $\frac{N}{E}$ $\frac{N}{E}$ miles S and $\frac{W}{W}$ $\frac{W}{W}$ miles S from $\frac{W}{W}$ $\frac{W}{W}$ in _____ (County)

in the $\frac{1}{4}$ $\frac{1}{4}$ Sec. _____ T. _____ R. _____

Owner _____ Well No. _____

Postoffice address _____

Contractor _____

Address _____

Driller _____

Well begun _____, 19____

completed _____, 19____

Rig used—Cable, Rotary, Jet, or _____

Depth of well 205 (Feet)

Size of hole (note total amount of each size) 12"
4 1/2" to 1 1/2" - 6 ft - 205'

Main water supply at _____ (Feet below surface)

Final water head 57.7 (Feet above or below surface)

Is well pumped? Yes

Yield 2.1 (Gallons per minute)

Water level when pumping 39.1

Position of well Upland, valley, side hill, etc.

wt 17103

SAMPLE NO.	DEPTH		THICKNESS	DESCRIPTION OF BEDS KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.
	From	To		
1	0	10	10	Shale Clay
2	10	20	10	Sandstone
3	20	30	10	Shale - 3.5% small grains
4	30	40	10	Clay Change to Blue Shale
5	40	50	10	Blue shale - 1 inch or more - 1.5% sand
6	50	60	10	" "
7	60	70	10	Yellow shale with pebbles or gravel sand
8	70	80	10	Yellow shale with layers of rock and sand
9	80 80	90 90	10	" "
10	90	100	10	Medium sand
11	100	110	10	Medium sand
12	110	120	10	Soft yellow sand
13	120	123	3	10 ft yellow shale to rock
14	123	130	7	Yellow sand
15	130	140	10	Broken hard yellow sand
16	140	150	10	Blue rock
17	150	165	15	Perse rock

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

Quartz Rock

" "
 " "
 " "
 " "
 " "
 " "
 " "

THICKNESS

DEPTH

From

To

SAMPLE NO.

18	160	170
18	170	175
20	175	180
21	180	185
22	185	190
23	190	195
24	195	200
25	200	205