

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-7397

WELL RECORD

Well is located _____ miles S and _____ miles S from
 E E
 W W

Columbia City in Linn
 (Nearest Town) (County)

in the _____ 1/4 Sec. _____ T. _____ R.

Owner Columbia City Well No. #41

Postoffice address _____

Contractor W. H. & Son, Inc.

Address W. H. & Son, Inc.

Driller Don L. H. H.

Well begun Sept. 1, 1922, 1922;

completed Sept. 9, 1922

Rig used—Cable, Rotary, Jet, or _____

Depth of well 165'
 (Feet)

Size of hole (note total amount of each size) 10"

Main water supply at 154' - 165'
 (Feet below surface)

Final water head 152'
 (Feet above or below surface)

Is well pumped? Yes

Yield 10 - 11 gpm
 (Gallons per minute)

Water level when pumping 158'

Position of well _____
 (Upland, valley, side hill, etc.)

NOTE: Water levels should be recorded at time of change AND at regular intervals; for example each morning before drilling starts or at the end of each 100 feet of drilling.

[illegible]

Is screen used? Yes Diameter 6"
(Inches)
Length 10' Depth to bottom 165'
(Feet)
Depth to top 155' Slot size 18
Are packers or seals used? Yes
Kind Johnson K-Packer
Where used 148'
Kind of pump Submersible Dia. 4"
(Inches)
Capacity of pump 10
(g.p.m.)
Power used 230 volt 3 phase
(Kind and amount)
Depth to bottom of pump line 163.5 feet
including none feet tailpiece
Remarks on construction of well Excellent
& well Grouted

SAMPLE NO.	DEPTH		THICKNESS	DESCRIPTION OF BEDS KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.
	From	To		
	0	5	0-1	Brown & Clay T/sand & coggins
	5	10	1-20"	Yellow Bm. & Clay - more silt w/
	10	15		Depth
	15	20		
	20	25	20" 60"	Blue Gray s & Clay w/ gravel
	25	30		
	30	35		
	35	40		@ 40' + below of sand seams
	40	45		
	45	50		
	50	55		
	55	60		@ 55'-50' layer of coarse gravel
	60	65		& Darker
	65	70	60"-75"	@ 65'-75' color orange
	70	75		Yellow Bm. s & Clay w/ gravel
	75	80	75-	Blue Gray s & Clay w/ gravel
	80	85		

