

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
N E N
E E
W W

_____ in _____
(Nearest Town) (County)

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

Owner _____ Well No. _____

Postoffice address _____

Contractor _____

Address _____

Driller Fraser Well Drilling

Well begun June 13, 1929;

completed June 27, 1929

Rig used—Cable, Rotary, Jet, or Rotary

Depth of well 520'
(Feet)

Size of hole (note total amount of each size) (322'-13")

(198'-8")

Main water supply at 460-520
(Feet below surface)

Final water head _____
(Feet above or below surface)

Is well pumped? _____

Yield 150 GPM
(Gallons per minute)

Water level when pumping _____

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

Date and Time	Water Level	SOURCE OF WATER		Production in Gallons per Minute	Pumping Level
		Depth	Type of Rock		
		520'	Lime Stone	150	

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.

RECORD OF PERMANENT CASING

Size Pipe	Amount of Pipe	Depth to Bottom of Pipe	Depth to Top of Pipe	Type ^o and Weight of Pipe	DIAGRAM OF WELL
8"	322'	322'		322	

^oAs cast, wrought iron, steel, concrete, etc.

Is screen used?..... Diameter..... (Inches)

Length..... (Feet) Depth to bottom.....

Depth to top..... Slot size.....

Are packers or seals used? NO.....

Kind.....

Where used.....

Kind of pump..... Dia. (Inches)

Capacity of pump..... (g.p.m.)

Power used..... (Kind and amount)

Depth to bottom of pump line..... feet, including..... feet tailpiece.

Remarks on construction of well.....

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SAMPLE NO.	DEPTH		THICKNESS
	From	To	
	0'	30'	
	30'	35'	
	35'	70'	
	70'	110'	4"-1'
	110'	120'	
	120'	215'	
	215'	280'	
	295'	305'	
	305	327	
	327		1"
	364		2
	370		1
	460		3
	460	510	
	510	520	

DESCRIPTION OF BEDS	
KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.	
	red clay
	white clay
	red clay
	Red clay with sand & gravel seams
	Red clay
	red to gray
	limestone, hard formation
	shale
	Dark Gray Hard formation
	Maple shale
	" "
	" "
	" "
	Water bearing area (Light Gray)
	Maple shale