

### 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

#1

### WELL RECORD

Well is located \_\_\_\_\_ miles S and \_\_\_\_\_ miles S from  
 N E  
 E E  
 W W

Iowa City in Johnson  
 (Nearest Town) (County)

in the \_\_\_\_\_ ¼ Sec. \_\_\_\_\_ T. \_\_\_\_\_ R.

Owner \_\_\_\_\_ Well No. \_\_\_\_\_

Postoffice address \_\_\_\_\_

Contractor Latta & Sons, Inc.

Address Riverside, IA 52237

Driller Don Latta

Well begun 5/23/84, 1984;

completed 6/6/84, 1984

Rig used—Cable, Rotary, Jet, or \_\_\_\_\_

Depth of well 395'  
 (Feet)

Size of hole (note total amount of each size) 10 1/2" - 125'

6" - 258'; 4 7/8" - 395'

Main water supply at 258' - 395'  
 (Feet below surface)

Final water head 153.77'  
 (Feet above or below surface)

Is well pumped? Yes

Yield 1.0  
 (Gallons per minute)

Water level when pumping 163'

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

3 hole strings  
 as opposed  
 to casing  
 Entered no casing  
 info  
 (grout strings?)

**RECORD OF PERMANENT CASING**

Date and Time	Water Level	SOURCE OF WATER		Production in Gallons per Minute	Pumping Level
		Depth	Type of Rock		

Size Pipe	Amount of Pipe	Depth to Bottom of Pipe	Depth to Top of Pipe	Type* and Weight of Pipe	DIAGRAM OF WELL

\*As cast, wrought iron, steel, concrete, etc.

Is screen used? NO Diameter    (Inches)

Length    (Feet) Depth to bottom   

Depth to top    Slot size   

Are packers or seals used? YES

Kind PVC K Packer

Where used Top + Bottom of Liner

Kind of pump Jacuzzi Dia. 4 (Inches)

Capacity of pump 50 @ 1103' (g.p.m.)

Power used 230V 1 Phase (Kind and amount)

Depth to bottom of pump line 248' feet, including    feet tailpiece.

Remarks on construction of well   

  

**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.**

Look for BR depth

SAMPLE NO.	DEPTH		THICKNESS	DESCRIPTION OF BEDS
	From	To		KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.
			0 - 8'	Yellow Brn Silty Sand
			8' - 14'	Yellow Brn Silty Clay w/sand
			14' - 35'	Lt. Brn. - Lt. Gray Silty Clay w/sand
			35' - 96'	Blue - Gray Sandy Silty Clay w/ gravel (Glacial Till) w/ sand seams
				@ 48' - 56' - Yellow Brn. Sand fine - coarse - some silt little or no water
			96' -	Lt. Yellow Brn. Limestone - <sup>concreted</sup>
				@ 107' - Lost circulation in rock. Mixed lost circulation material in mud to no avail. Then pumped 30 bags of Portland cement to shut off fissure.

Added as sand layers







