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 ____ N/S ____ miles and ____ E/W ____ miles from Wapello (Nearest Town) in Louisa (County),

in the ____ ¼ ____ ¼ Sec. ____ T. ____ R. ____

Owner City of Wapello Well No. ____

Postoffice address ____

Contractor Latta & Sons, D.C.

Address Riverside, Ia. 52327

Driller Don Latta

Well begun ____, 19____;

completed ____, 19____

Rig used—Cable, (Rotary) Jet, or ____

Depth of well 75' (Feet)

Size of hole (note total amount of each size) 8"

Main water supply at 50'-75' (Feet below surface)

Final water head 21' below (Feet above or below surface)

Is well pumped? Yes

Yield 400+ (Gallons per minute)

Water level when pumping 30.5 @ 320 g.p.m.

Position of well North to Water Tower (Upland, valley, side hill, etc.)

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

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° and Weight of Pipe	DIAGRAM OF WELL

°As cast, wrought iron, steel, concrete, etc.

Is screen used? Yes Diameter 7 5/8" (Inches)

Length 27' (Feet) Depth to bottom 75'

Depth to top 50' Slot size .015"

Are packers or seals used? Yes

Kind K. Pac Four

Where used Top of Screen

Kind of pump Grundfos Dia. 6" (Inches)

Capacity of pump 250 (g.p.m.)

Power used 230 Volt 3 ph. (Kind and amount)

Depth to bottom of pump line 46 feet,

including _____ feet tailpiece.

Remarks on construction of well _____

SAMPLE NO.	DEPTH From	DEPTH To	THICKNESS	DESCRIPTION OF BEDS KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.
	0	5	0-6±	Brown & CLAY T/ organics
	5	10	6±-23	Yellow Brn. & SAnd w/ coarse gravel
	10	15		
	15	20		
	20	25	23-27	Gray CLAY seam w/SAnd & coarse gRAVEL
	25	30	27-34	Gray & Sand fine-med. w/ coarse gRAVEL
	30	35	34-39	GRAY S & CLAY w/gravel & Sand Seams
	35	40		
	40	45		
	45	50	49-75	GRAY SAnd fine-med.
	50	55	75-76	GRAY & CLAY
	55	60		
	60	65		STATIC WATER Level - 21'
	65	70		8" Steel CAsing w/welded
	70	75		Joints SeT To 50'
	75	80		25', .015-SlOT Johnson ST.
				Steel Screen WAS Telescoped To 75'

SAMPLE NO.	DEPTH		THICKNESS	DESCRIPTION OF BEDS
	From	To		KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.
				Seal between Screens & Casing
				was made w/ K Packer
				attached to screen
				Casing was grouted to 40'
				with portland grout
				length of airline 46'