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

- 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.
- 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.
- 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.

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WELL RECORD

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Well is locatedmiles S andmiles S from W W
Fredonia in Lausia (County)
in the
Owner Fred Humston Well No.
Postoffice address
Contractor Lafter + Sons
Address
Driller Jim La Ha
Well begun, 19;
completed, 19
Rig used-Cable, Rotary) Jet, or
Depth of well 79 (Feet)
Size of hole (note total amount of each size)
Main water supply at 70-79 (Feet below surface)
Final water head 30' (Feet above or below surface)
Is well pumped?
Yield(Gallons per minute)
Water level when pumping
Position of well(Upland, valley, side hill, etc.)

Date and Time	Water Level	SOURCE Depth	OF WATER Type of Rock	Production in Gallons per Minute	Pumping Level
		Debiti	Rock	per minute	
		<u> </u>		-	
			-	<u> </u>	
	<u>} </u>	<u> </u>			
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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
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	REC	OKD OF					
Size Pipe	Amount of Pipe	Depth to Bottom of Pipe	Depth to Top of Pipe	Typo° Weig	tht	DIAGRAM	OF WELL
6"	70'			sch	40		
				<u> </u>			
					_		
	<u></u>	<u> </u>	<u> </u>	<u> </u>		<u> </u>	·
°A -	is cast, wr	ought from	ı, staal, c	oncrete, Diama	eic.	6"	
ls	screen us	car_4.55.		Jame		(Inches)	-
Length 10 (Feet) Depth to bottom 79							
Depth to top Slot size							
Are packers or seals used? 465							
Kind K Where used 68H-							
Kind of pump Din							
		pump					
Po	Power used(Kind and amount)						

Depth to bottom of pump line____feet,

Remarks on construction of well Full length

grout with Portland

				DESCRIPTION OF BEDS		
DEPTH			THICKNESS	KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.		
SAMPLE NO.	From	To		coass said		
	O	5	<u> </u>	yellow-brown coarse sand		
	5	10		reddish brown swd - fine to course - gravel		
	10	15	F			
	<u> </u>	20	18'- 19'	blue clay		
	20	25		reddish brown gravel, trace of blue clay		
	25	30	27'2"- 28'2"			
	30	35	उ'4"	fine red sand 12-15 slot		
		40				
	40	45		· · · · · · · · · · · · · · · · · · ·		
	45	50				
	50	55				
	55	(0)		•		
	40	65		yellow-red sand 15 5/0+		
	65	70				
	70	75		yellow rad soud (dirty)		
	75	80				
	68	85		Coarse pea gravel		

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DEPTH			DESCRIPTION OF BEDS		
SAMPLE NO.	From	To	THICKNESS	KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.	
	85'	90'		trace of blue clay	
	40	95.		more clay than sand gravel to fine sand	
	95	100		fine sund 10 stat	
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