

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

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WELL RECORD

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

Clear Lake in Ceno Gordo,
(Nearest Town) (County)

in the _____ $\frac{1}{4}$ Sec. _____ T. _____ R. _____

Owner Marge Schmalke Well No. 2

Postoffice address 5 Shore Rd Box 116 Clear Lake Ia

Contractor Beemer Well Drilling Inc

Address Rt 1 Box 2 Fairmont Mo 66031

Driller T. M. Kellersch

Well begun 5/29, 1990;

completed 5/30, 1990

Rig used—Cable Rotary, Jet, or _____

Depth of well 175
(Feet)

Size of hole (note total amount of each size) _____

10" 0-102' 6" 102'-116' 5" 116'-175'

Main water supply at 118'-165'
(Feet below surface)

Final water head 10'
(Feet above or below surface)

Is well pumped? yes

Yield 100 gpm
(Gallons per minute)

Water level when pumping 80'

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

RECORD OF PERMANENT CASING

[illegible]

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.

Size Pipe	Amount of Pipe	Depth to Bottom of Pipe	Depth to Top of Pipe	Type* and Weight of Pipe	DIAGRAM OF WELL
6"	102'	102'		Sch 40 steel P.E.	
5"	18'	117'	99'	Sch 40 steel P.E.	
5" open hole 117'-175'					

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

Is screen used? no Diameter _____ (Inches)

Length_____ Depth to bottom_____
(Feet)

Depth to top_____ Slot size_____

Are packers or seals used?_____

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_____

SAMPLE NO.	DEPTH		THICKNESS
	From	To	
	0	1'	1'
	1'	5'	4'
	5'	10'	5'
	10'	15'	5'
	15'	20'	"
	20'	25'	"
	25'	30'	"
	30'	35'	"
	35'	37'	2'
	37'	40'	3'
	40'	45'	5'
	45'	50'	"
	50'	55'	"
	55'	60'	"
	60'	65'	"
	65'	70'	"
	70'	75'	"

[illegible]

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SAMPLE NO.	DEPTH		THICKNESS
	From	To	
	75'	80'	5'
	80'	85'	5'
	85'	87'	2'
	87'	90'	3'
	90'	95'	5'
	95'	97'	2'
	97'	100'	3'
	100'	105'	5'
	105'	106'	1'
	106'	107'	
	107'	110'	
	110'	113'	3'
	113'	114'	1'
6	114'	115'	1'
5	115'	120'	
	120'	125'	5'
	125'	130'	5'

DESCRIPTION OF BEDS			
KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.			
blue clay			
" "			
" "			
brown clay			
" "			
" "			
brown limestone	med		
" "	"	"	water
" "	"	"	"
gray shale	med		
gray shale	soft		
" "	"		
gray shale	med		
gray rock	med		
brown limestone	med		water
brown limestone	med		water

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SAMPLE NO.	DEPTH		THICKNESS
	From	To	
	130'	135'	5'
	135'	140'	5'
	140'	143'	3'
	143'	145'	2"
	145'	149'	4'
	149'	150'	1'
	150'	155'	5'
	155'	160'	5'
	160'	165'	"
	165'	170'	"
	170'	173 1/2'	3 1/2'
	173 1/2'	175'	1 1/2'

DESCRIPTION OF BEDS	
KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.	
gray limestone	hard
gray limestone	med
"	"
gray shale	soft
gray shale	soft
"	"
"	"
"	"
"	"
"	"
"	"
"	"
gray rock	hard