

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.

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.

PB-15484

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WELL RECORD

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

Cresco in _____
 (Nearest Town) (County)

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

Owner City of Cresco Well No. _____

Postoffice address Cresco, Ia. 52136

Contractor _____

Address _____

Driller Dan McBurney

Well begun 6-10, 1929;

completed 11-, 1929

Rig used—Cable, Rotary, Jet, or _____

Depth of well _____
 (Feet)

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

Main water supply at _____
 (Feet below surface)

Final water head _____
 (Feet above or below surface)

Is well pumped? _____

Yield _____
 (Gallons per minute)

Water level when pumping _____

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

RECORD OF PERMANENT CASING

[illegible][illegible]

Is screen used?----- 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-----

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SAMPLE NO.	DEPTH		THICKNESS
	From	To	
	0	12	12'
	12	18	6'
	18	45	27'
	45	60	15'
	60	75	15'
	75	90	15'
	90	155	65'
	155	160	5'
	160	175	15'
	175	290	115'
	290	380	90'
	380	500	120'
	500	600	100'
	600	620	20'
	620	660	40'
	660	700	40'

DESCRIPTION OF BEDS
KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.
Yellow Clay
Yellow or tan Sand coarse
lime Yellow - soft + broken
lime mixed with shale Yellow
lime Tan - harder rock
lime gray - medium
lime - dol brown - medium
lime - gray - medium
lime + shale - gray - soft
lime dol gray - hard
lime tan + light gray - hard
lime light gray - hard
lime Yellow brown - soft
Course sand + gravel Yellow brown - soft
Fine gray sand St. Peter Formation
lime light brown + gray - hard

SAMPLE NO.	DEPTH		THICKNESS
	From	To	
	700	730	30'
	730	740	10
	740	780	40
	780	790	10
	790	795	5
	795	900	105
	900	950	50
	950	960	10
	960	970	10
	970	1070	100
	1070	1080	10
	1080	1000	20
	at 755	started	
	white soft material		
	a sample on core		

DESCRIPTION OF BEDS
KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.
Gray & hard
Some brown & gray & hard
Gray & hard
light Gray & hard
some brown & hard
light Gray & hard
Gray & some softer
Tan & softer
Gray & softening
Soft sandstone with some shaly beds
harder
very hard
picking up a few flakes of
& when we pull rods we get
at 755