

**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

# 29595

**WELL RECORD**

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

Harcourt in Webster  
 (Nearest Town) (County)

in the \_\_\_\_\_ 1/4 \_\_\_\_\_ 1/4 Sec. \_\_\_\_\_ T. \_\_\_\_\_ R.

Owner Town of Well No. 2

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

Contractor Layne Western Co., Inc.

Address Ames, Iowa

Driller M. Evans

Well begun Nov. 7, 1988;

completed March 30, 1989

Rig used—Cable, Rotary, Jet, or Rotary to 804' Cable tool to 1251'

Depth of well 1251'  
 (Feet)

Size of hole (note total amount of each size) 12" to

854' 8" to 1251'

Main water supply at \_\_\_\_\_  
 (Feet below surface)

Final water head 168' below  
 (Feet above or below surface)

Is well pumped? yes

Yield 125 gpm  
 (Gallons per minute)

Water level when pumping 321'

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



# 25595  
~~80078~~

SAMPLE NO.	DEPTH		THICKNESS
	From	To	
	779	804	
	804	828	24'
	828		
	845	850	
	850	855	
	855	860	
	860	865	
	865	870	
	870	875	
	875	880	
	880	885	
	885	890	
	890	895	
	895	900	
	900	905	
	905	910	

DESCRIPTION OF BEDS  
KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.

blue-gray shale filled in from above  
blue-gray shale; firm, sticky  
gray-white dolomite

DOLOMITIC LIMESTONE  
GREY WHITE HARD

SHALE STREAKS FROM  
904 -



~~# 29595~~  
# 29595

SAMPLE NO.	DEPTH		THICKNESS
	From	To	
	995	1000	
	1000	1005	
	1005	1010	BROWN @ 1006
	1010	1015	
	1015	1020	
	1020	1025	
	1025	1030	
	1030	1035	
	1035	1040	
	1040	1045	SHALE @
	1045	1050	1047
	1050	1055	GREY @
	1055	1060	1051
	1060	1065	
	1065	1070	
	1070	1075	VERY
	1075	1080	HARD @ 1077

DESCRIPTION OF BEDS
KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.
LIMESTONE GREY W/SHALE HARD
LIMESTONE LT BROWN + GREY HARD
LIMESTONE GREY + BROWN W/WHITE SHALE
LIMESTONE GREY VERY HARD
LIMESTONE GREY + BROWN VERY HARD

SAMPLE NO.	DEPTH		THICKNESS	DESCRIPTION OF BEDS	
	From	To		KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.	
	1080	1085		LIMESTONE GREY + BROWN	VERY HARD
	1085	1090			
	1090	1095		LIMESTONE GREY + BROWN	
	1095	1100		Limestone, gray hard	
	1100	1105		Limestone, gray hard	
	1105	1110		Limestone, hard gray	
	1110	1115		LIMESTONE + SANDSTONE	
	1115	1120		GREY	HARD
	1120	1125			
	1125	1130			
	1130	1135			
	1135	1140	DOLOMITE @ 1136'	DOLomite	LIGHT GREY HARD
	1140	1145			
	1145	1150			
	1150	1155			
	1155	1160			
	1160	1165	SHALE @ 1160	DOLomite w/SHALE STREAKS	GREY HARD

#29595

SAMPLE NO.	DEPTH		THICKNESS
	From	To	
	1165	1170	
	1170	1175	
	1175	1180	
	1180	1185	
	1185	1190	
	1190	1195	CHANGE@ 1191'
	1195	1200	
	1200	1205	
	1205	1210	
	1210	1215	
	1215	1220	
	1220	1225	
	1225	1230	
	1230	1235	
	1235	1240	
	1240	1245	
	1245	1250	1251'

## DESCRIPTION OF BEDS

KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.

DOLOMITE W/ SHALE BREAKS  
GREY HARD

LIMESTONES GREY + DARK BROWN  
VERY HARD

TOTAL DERTH 3-2-89