

DRILLER'S NOTEBOOK

29599

[REDACTED]

DNK

NOV 14 1988

WELL RECORD

GEOL. SURVEY

Driller Dan Schlich

Address Rt 2

Brighton Iowa

Owner City of Fairfield

Address _____

RETURN TO

Iowa Department of Natural Resources
GEOLOGICAL SURVEY BUREAU

123 North Capitol Street
IOWA CITY, IOWA 52240

(319) 335-1575

WHEN RECORD IS COMPLETED PUT IN ENVELOPE AND MAIL TO

THE DIRECTOR

Iowa Department of Natural Resources
GEOLOGICAL SURVEY BUREAU

123 North Capitol Street
IOWA CITY, IOWA 52240
(319) 335-1575

IOWA

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.

WELL RECORD

29599 # [REDACTED]

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

Fairfield in *Jefferson*
(Nearest Town) (County)

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

Owner *City of F. F.* Well No. _____

Postoffice address _____

Contractor *Schlichu Well Co.*

Address *Rt 2 Fairfield, Iowa*

Driller *Dan Schlichu*

Well begun *Sept 8*, 19 *88*;

completed _____, 19 _____

Rig used—Cable, Rotary, Jet, or *Cable*

Depth of well *233' 7"* From ground
(Feet)

Size of hole (note total amount of each size) *Refer to Back Page*

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*
(Upland, valley, side hill, etc.)

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RECORD OF PERMANENT CASING

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.

Size Pipe	Amount of Pipe	Depth to Bottom of Pipe	Depth to Top of Pipe	Type ^o and Weight of Pipe	DIAGRAM OF WELL
6 5/8	218	215' 7"	2' 5" Above ground	980 steel	

^oAs cast, wrought iron, steel, concrete, etc.

Is screen used? yes Diameter 5 5/8 (Inches)
 Length 2' (Feet) Depth to bottom 233' 7"
 Depth to top 2' 12" Slot size total 20 slot
 Are packers or seals used? yes 16-21-30 slot
 Kind R-Packer
 Where used on top of screen
 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 _____

295.99

#

SAMPLE NO.	DEPTH		THICKNESS
	From	To	
#18	80	85	
#19	85	90	
#20	90	95	
#21	95	100	
#22	100	105	
#23	105	110	
#24	110	115	
#25	115	120	
#26	120	125	
#27	125	130	
#28	130	135	
#29	135	140	
#30	140	145	
#31	145	150	
#32	150	155	
#33	155	160	
#34	160	165	

DESCRIPTION OF BEDS			
KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.			
	clay -	gray	
	"	"	
	clay -	gray -	soft
	"	"	"
	"	"	"
	"	"	"
	"	"	"
	"	"	"
	"	"	"
	"	"	"
	"	"	"
	"	"	"
	"	"	"
	clay -	gray -	water sand + gravel

[redacted] 29599

SAMPLE NO.	DEPTH		THICKNESS
	From	To	
#35	165	170	water
#36	170	175	↓
#37	175	180	
#38	180	185	
#39	185	190	
#40	190	195	
#41	195	200	
#42	200	206	
#43	206	210	
#44	210	215	
#45	215	220	
#46	220	225	
#47	225	230	
#48	230	233	↓

DESCRIPTION OF BEDS			
KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.			
clay	-	gray	- sand + gravel
clay	-	gray	- very sandy
"	"	"	"
"	"	"	"
"	"	"	"
clay + sand	-	gray	
clay	-	sand + gravel	- gray
"	"	"	"
sand	-	gray	
"	"	"	
"	"	"	
"	"	"	
sand + gravel			
"	"	"	

233
21
212

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IOWA

DRILLER'S NOTEBOOK
#29599

WELL RECORD

Driller Don Schliebs
Address Rt 2 Box 119
Brighton, Iowa

Owner Fairfield Water Works
Address Fairfield, Ia

RETURN TO

Iowa Department of Natural Resources
GEOLOGICAL SURVEY BUREAU
123 North Capitol Street
IOWA CITY, IOWA 52240
(319) 335-1575

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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.

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Water Works Dept
(North end)

WELL RECORD # 29599

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

Fairfield in Jefferson
(Nearest Town) (County)

in the _____ 1/4 _____ 1/4 Sec. 24 T. 22N R. 10W

Owner F. F. Water Works Well No. _____

Postoffice address _____

Contractor Schlich Well Co.

Address _____

Driller Dan Schlich

Well begun Sept 8, 19 88;

completed Oct 6, 19 88

Rig used ~~Cable~~ Rotary, Jet, or _____

Depth of well 233 ft
(Feet)

Size of hole (note total amount of each size) 2 1/2" pipe above ground to 212 is 6" pipe - 212 to 233 1 1/2" screen

Main water supply at 206 to 233
(Feet below surface)

Final water head 87 ft
(Feet above or below surface)

Is well pumped? Yes

Yield 300 gpm
(Gallons per minute)

Water level when pumping 103

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

29599

RECORD OF PERMANENT CASING

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

Size Pipe	Amount of Pipe	Depth to Bottom of Pipe	Depth to Top of Pipe	Type° and Weight of Pipe	DIAGRAM OF WELL
6 5/8	218	215' 7"	215" above	280 steel	

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

Is screen used? Yes Diameter 5 5/8 O.D.
(Inches)Length 21 Depth to bottom 233' 7"
(Feet)Depth to top 212' Slot size 1/8" x 20 - 5/16" 30Are packers or seals used? YesKind K-packerWhere used over topKind of pump SUB Dia. 6"
(Inches)Capacity of pump _____
(g.p.m.)Power used 230 V 3 phase
(Kind and amount)Depth to bottom of pump line 203 feet,
including _____ feet tailpiece.

Remarks on construction of well _____

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.

#29599

SAMPLE NO.	DEPTH		THICKNESS
	From	To	
#18	80	85	
#19	85	90	
#20	90	95	
#21	95	100	
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#23	105	110	
#24	110	115	
#25	115	120	
#26	120	125	
#27	125	130	
#28	130	135	
#29	135	140	
#30	140	145	
#31	145	150	
#32	150	155	
#33	155	160	
#34	160	165	

DESCRIPTION OF BEDS			
KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.			
clay	-	gray	
"		"	
"		"	SOFT
"		"	"
"		"	"
"		"	"
"		"	"
"		"	"
"		"	"
"		"	"
"		"	"
"		"	"
"		"	"
"		"	"
"		"	"
"		"	"
"		"	"
"		"	"
"		"	"
"		"	"
"		"	"
"		"	"
clay-gray		sand + gravel	

#29599

SAMPLE NO.	DEPTH		THICKNESS
	From	To	
#35	165	170	
#36	170	175	
#37	175	180	
#38	180	185	
#39	185	190	
#40	190	195	
#41	195	200	
#42	200	206	
#43	206	210	
#44	210	215	
#45	215	220	
#46	220	225	
#47	225	230	
#48	230	233	

DESCRIPTION OF BEDS			
KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.			
clay	gray	sand	+ gravel
clay	gray	very	sandy
"	"	"	"
"	"	"	"
"	"	"	"
clay	sand	-	gray
clay	sand	gravel	gray
"	"	"	"
Sand	-	gray	
"		"	
"		"	
"		"	
Sand	+ gravel		
"	"		