#33459

DRILLER'S NOTEBOOK

WELL RECORD

Driller Aldin Stecker

Address 885 Brainstone
Mason City 50401

Owner Nora Springs Golf Course & 9th Edit

Address Hwy
Nora Springs, IA

Iowa Department of Natural Resources
GEOLOGICAL SURVEY BUREAU
123 North Capitol Street
IOWA CITY, IOWA 52242
(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 52242
(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.

A-7397

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WELL RECORD

Well is located 1 miles W and ____ miles S from N E W

Ubra Springs in Cerro Gordo
(Nearest Town) (County)

in the SW ¼ SE ¼ Sec. 11 T. 96 R. 19

Owner ____ Well No. ____

Postoffice address ____

Contractor Stecker Well Drilling

Address 885 Brainbridge M.C.

Driller Alvin Stecker

Well begun Apr. 16, 19 82

completed May 7, 19 82

Rig used—Cable, ~~Rotary~~, Jet, or ____

Depth of well 340 (Feet)

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

48' 12" 342' 8"

Main water supply at 340' (Feet below surface)

Final water head 45' (Feet above or ~~below~~ surface)

Is well pumped? yes

Yield 300 (Gallons per minute)

Water level when pumping 250

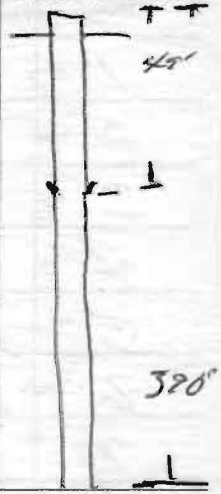
Position of well ____ (Upland, valley, ~~side hill,~~ etc.)

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Date and Time	Water Level	SOURCE OF WATER		Production in Gallons per Minute	Pumping Level
		Depth	Type of Rock		
	45'	390'	Limestone	300	250'

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

Size Pipe	Amount of Pipe	Depth to Bottom of Pipe	Depth to Top of Pipe	Type° and Weight of Pipe	DIAGRAM OF WELL
8"	48'	48'	46'	Steel	

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

Is screen used?_____ Diameter_____ (Inches)

Length_____ (Feet) Depth to bottom_____

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 From	DEPTH To	THICKNESS	DESCRIPTION OF BEDS — KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.		
1	0	2		Topsoil	Blk.	5
2	2	5		Clay	Yel	5
3	5	10		Clay	Yel/Blue	5
4	10	15		"	Blue	5
5	15	20		"	"	"
6	25	35		"	"	"
7	35	~~44~~		"	"	"
8	44	45		Rock	Br.	H.
9	45	50		"	"	H
10	50	60		Limestone Rock	Gry	H
11	60	80		"	"	"
12	80	100		"	"	"
13	100	105		Rock	Br	H
14	105	115		"	"	"
15	115	125		"	"	"
16	125	145		Rock	Gry	H
17	145	155		"	"	"

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SAMPLE NO.	DEPTH From	DEPTH To	THICKNESS	DESCRIPTION OF BEDS — KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.
18	155	165		Rock Br H
19	165	~~175~~		" " "
20	175	185		" " "
21	185	200		Rock Gray Br H
22	200	210		" " "
23	210	220		Rock Br white H
24	220	230		" " "
25	250	200		" " "
26	250	260		Rock Br M
27	260	270		" " "
28	270	280		" " "
29	280	290		" Gray M
30	290	310		" " C
31	310	320		" " "
32	320	330		" Br H
33	330	340		" " "
34	340	350		" " "

SAMPLE NO.	DEPTH		THICKNESS	DESCRIPTION OF BEDS
	From	To		KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.
35	350	360		Rock Blk Mts
36	360	370		" " "
37	370	380		" " "
38	380	390		" " "