#19840

DRILLER'S NOTEBOOK

WELL RECORD

Driller_____

Address_____

_____

Owner_____

Address_____

_____

RETURN TO

IOWA GEOLOGICAL SURVEY

IOWA CITY, 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

#19840

WELL RECORD

Well is located ____ N/E miles S/W and ____ N/E miles S/W from Arthur (Nearest Town) in Ida (County),

in the ____ ¼ ____ ¼ Sec. ____ T. ____ R. ____

Owner Town of Arthur Well No. ____

Postoffice address Arthur

Contractor Rasmussen Well Co

Address Le Grand

Driller Rasmussen Well Co

Well begun June, 19 67;

completed Aug, 19 67

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

Depth of well 330 (Feet)

Size of hole (note total amount of each size) 6"

Main water supply at 246-250 + 265 + 274 (Feet below surface)

Final water head 145 (Feet above or below surface)

Is well pumped? Yes

Yield 30 (Gallons per minute)

Water level when pumping 215 ft

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

SAMPLE NO.	DEPTH From	DEPTH To	THICKNESS	DESCRIPTION OF BEDS — KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.
	0	1		black soil
	1	6½		brown clay
	6½	14½		sand
	14½	20		yellow clay
	20	25		yellowish gray clay
	25	32		Gray clay
	32	35		blue clay
	35	40		"
	40	45		blue clay
	45	50		"
	50	55		"
	55	60		"
	60	65		"
	65	70		"
	70			
	80	90		"
	90	100		"

SAMPLE NO.	DEPTH From	DEPTH To	THICKNESS	DESCRIPTION OF BEDS KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.
	10			blue la.
	110	20		blue clay
	120			
	13			
	13	137		sandy (hard)
	137	140		blue clay
	140	145		" "
	145	150		" "
	150	155		" "
	155	160		
	160	165		Grayish blue clay
	165	170		" "
	170	75		" "
	175	180		" "
	180	187		Gray clay
	187	190		" " 187 boulder
	190	200		" "

SAMPLE NO.	DEPTH From	DEPTH To	THICKNESS	DESCRIPTION OF BEDS — KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.
	200	205		sandy gray clay
	205	208		207 hard clay
	208	210		sandy yellow clay
	210	212		" " "
	212	213		rocks boulders
	213	215		gray clay
	215	220		" "
	220	225		red clay
	225	230		red white & rusty shale
	230	232		white shale
	232	233		red & rusty shale
	233	246		whitish gray shale
	246	248		sandstone
	248	250		sandstone
	250	251		shale & sandstone
	251	253		white shale
	253	257		rusty shale

SAMPLE NO.	DEPTH From	DEPTH To	THICKNESS	DESCRIPTION OF BEDS — KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.
	257	260		white shale & streak of sandstone
	260	265½		" " & streak of sandstone
	265½	267½		sandstone
	267	273½		sandstone
	273½	275		rusty shale
	275	280		white & rusty shale
	280	283		rusty shale
	283	284		white & rusty shale
	284	288		Gray shale
	288	29		rusty shale
	290	300		purple Gray shale
	300	304		" " "
	304	307		Gray shale
	307	309		Dark Gray shale
	309	310		Gray shale
	310	312		Gray shale & sandstone
	312	320		Gray shale

SAMPLE NO.	DEPTH From	DEPTH To	THICKNESS	DESCRIPTION OF BEDS KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.
	320	325		rusty shale
	325	328		red shale
	328	330		white & gray shale