

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

WELL RECORD

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

Rinard in _____
(Nearest Town) (County)

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

Owner Rinard Well No. 3

Postoffice address _____

Contractor R & R Well Co., Inc.

Address R.R. 1, Fort Dodge, Ia.

Driller Lynn Rosengquist

Well begun July 16, 1992

completed Aug. 5, 1992

Rig used—Cable, Rotary, Jet, or _____

Depth of well 305'
(Feet)

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

10" - 275'

Main water supply at 300' - 305'
(Feet below surface)

Final water head 122'
(Feet above or below surface)

Is well pumped? Yes

Yield 300 GPM
(Gallons per minute)

Water level when pumping 130'

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

SAMPLE NO.	DEPTH		THICKNESS
	From	To	
#1	0'	2'	2'
#2	2'	5'	3'
#3	5'	10'	5'
#4	10'	15'	5'
#5	15'	20'	5'
#6	20'	25'	5'
#7	25'	30'	5'
#8	30'	35'	5'
#9	35'	40'	5'
#10	40'	45'	5'
#11	45'	50'	5'
#12	50'	55'	5'
#13	55'	60'	5'
#14	60'	65'	5'
#15	65'	70'	5'
#16	70'	75'	5'
#17	75'	80'	5'

DESCRIPTION OF BEDS
KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.
Black Top Soil
yellow clay
yellow clay
yellow clay
Dark yellow Clay
Blue Clay (Sandy)
Blue clay
Blue Clay
Blue clay
Blue Clay
Blue Clay
Blue Clay (Sandy)
Blue Clay
Blue Clay (Sandy)
Blue Clay
Blue Clay

SAMPLE NO.	DEPTH		THICKNESS
	From	To	
# 18	80'	85'	5'
# 19	85'	88'	3'
# 20	88'	90'	2'
# 21	90'	95'	5'
# 22	95'	100'	5'
# 23	100'	105'	5'
# 24	105'	110'	5'
# 25	110'	115'	5'
# 26	115'	120'	5'
# 27	120'	125'	5'
# 28	125'	130'	5'
# 29	130'	135'	5'
# 30	135'	140'	5'
# 31	140'	143'	3'
# 32	143'	145'	2'
# 33	145'	150'	5'
# 34	150'	155'	5'

DESCRIPTION OF BEDS
KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.
Blue Clay
Sand (Grey-Medium to coarse
Blue Clay
Blue Clay
Blue Clay
Blue Clay
Yellow Clay
Yellow Clay
Yellow Clay
Yellow Clay
Yellow Clay
Yellow Clay
Blue Clay
Sand
Red Shale
Red Shale
White Shale

SAMPLE NO.	DEPTH		THICKNESS
	From	To	
#35	155'	160'	5'
#36	160'	165'	5'
#37	165'	170'	5'
#38	170'	175'	5'
#39	175'	180'	5'
#40	180'	185'	5'
#41	185'	190'	5'
#42	190'	191'	1'
#43	191'	195'	4'
#44	195'	200'	5'
#45	200'	205'	5'
#46	205'	210'	5'
#47	210'	215'	5'
#48	215'	220'	5'
#49	220'	225'	5'
#50	225'	230'	5'
#51	230'	233'	3'

DESCRIPTION OF BEDS
KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.
Red Shale
Grey Shale
Grey Shale
Grey Shale
Grey Shale
Grey Shale
Grey Shale
Grey Shale
Sandstone - Grey
Sandstone Grey Shaley
Red Shale
Sandstone
Sandstone
Sandstone
Grey Shale
Grey Shale
Grey Shale

SAMPLE NO.	DEPTH		THICKNESS
	From	To	
# 52	233'	235'	2'
# 53	235'	240'	5'
# 54	240'	245'	5'
# 55	245'	246'	1'
# 56	246'	250'	4'
# 57	250'	255'	5'
# 58	255'	260'	5'
# 59	260'	265'	5'
# 60	265'	270'	5'
# 61	270'	275'	5'
# 62	275'	280'	5'
# 63	280'	285'	5'
# 64	285'	290'	5'
# 65	290'	295'	5'
# 66	295'	300'	5'
# 67	300'	305'	5'

DESCRIPTION OF BEDS	
KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.	
Grey Shale	
Grey Shale	
Grey Shale	
Grey Shale	
Sandstone - Grey	
Sandstone	
Grey Shale	
Grey Shale	
Grey Sandstone (Crevice + Hard)	
Sandstone	
Sandstone	
Sandstone	
Limestone (Dark Grey weathered)	
Grey Sandstone	
Grey Sandstone (Streak of Limestone)	
Sandstone (loosely cemented)	
Crevice	