

DRILLER'S NOTEBOOK

U-61

WELL RECORD

Driller T NORPE WELL CO

Address _____

DES MOINES, IAU-61Owner U.S.G.S.

Address _____

IOWA CITY, IA

RETURN TO

IOWA GEOLOGICAL SURVEY

IOWA CITY, IOWA

20006

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 $\begin{matrix} N \\ \textcircled{E} \end{matrix}$ 3.0 miles S and $\begin{matrix} N \\ \textcircled{E} \end{matrix}$ 1.5 miles S from $\begin{matrix} W \\ \textcircled{W} \end{matrix}$

AFTON in UNION
(Nearest Town) (County)

NE in the 10W 24 1/4 Sec. 12 T. 72 N R. 25 W

Owner U.S.G.S Well No. 4-61

Postoffice address IOWA CITY, IA

Contractor THORPE WELL CO.

Address DES MOINES, IA

Driller HARCO HALLMAN

Well begun 9/19, 1967;

completed 9/20, 1967

Rig used—Cable, Rotary Jet, or

Depth of well 156'
(Feet)

Size of hole (note total amount of each size) 6 1/4"

0-75 5 5/8" 75-156'

Main water supply at _____
(Feet below surface)

Final water head _____
(Feet above or below surface)

Is well pumped? NO

Yield _____
(Gallons per minute)

Water level when pumping _____

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

SAMPLE NO.	DEPTH		THICKNESS
	From	To	
	0		
102-167	5	10	
167	10	12	
115	12	15	
	15		ABANDONED
	0	2	
	2	5	
624	5	9	
627	9	10	
627-632	10	15	
46-	15	18	
650	18	20	
650 ^{NO TIME}	20	25	mud RING-
702 ^{NO TIME}	25	30	
714	30	32	
719	32	35	

DESCRIPTION OF BEDS	
KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.	
Road Ben - No Sample	
CLAY, BROWN TAN (NL)	
AS (NL)	
CLAY, DARK BROWN (NL)	
ABANDONED HOLE & MOVE NORTH	
Road Ben - No Sample	
CLAY, TAN (NL)	
Till, YELL BROWN (NL)	
Till, YELL BROWN (C)	
AS	
AS	
SAND, ^{COARSE} GRAVEL: YELL W/ TILL Bands	
Till, YELLOW BROWN (C)	
AS	
AS	
Till, BLUE GRAY -	
CLAY, BLACK	

SAMPLE NO.	DEPTH		THICKNESS
	From	To	
917	35	38	
925	38	40	
933	40	45	MUD RING SAMPLE 2 Rock
935	45	49	
1023	49	50	
	51	54	
1026	54	75	
1026 ^{no} mmc	57	60	MUD RING
1040-	60	65	MUD RING
1128-1133	65	70	MUD RING
1133-1140	70	75	
NO TIME	X75	80	
259-305	80	85	
305 NO ^{LS} mmc	83	90	FOSSILS 87
509-512	90	94	LS Fossils
512	94	95	verticality

DESCRIPTION OF BEDS	
KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.	
CLAY, ^{sun-d} pink & Brown (No L.S.)	
CLAY, BROWN (No L.S.)	
BLUE GRAY w/ some yellow	
BLUE GRAY & TULL GRAY	
TILL? GREENISH	
AS	
SAND, FINE w/ TULL BANDS	
TULL GRAY GREENISH	
AS	
NO SAMPLE	
T. YELL BROWN (NOT SURE IF) DRILLING THIS	
AS	
T. YELL TANN w/ some BLUE GRAY	
AS	
AS	
AS	
Sand, coarse, dark & light w/ tull bands	

