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.

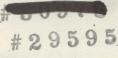
SUGGESTIONS TO DRILLERS

- 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.

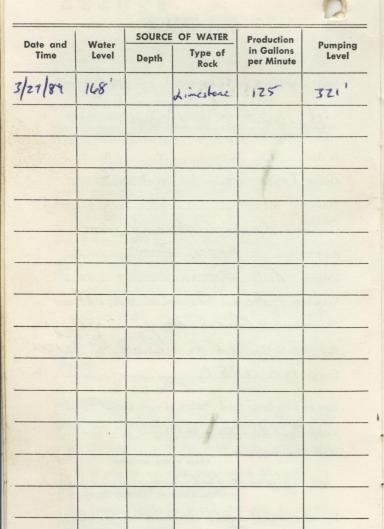
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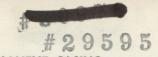


WELL RECORD

	N		N
	E		Е
Well is located	_miles S ar	idmi	les S from
, ,	W	Λ	W
Harcourt	in le) ebster	
Harcourt (Nearest Town)	111	(Co	unty)
in the1/41/4			
Owner Town a	t	. Well No.	
Postoffice address			
Contractor Lago	1)-01	Can (2)	Time
Contractor Alega	1	- Lec	
Address	Hores, -	Lowe	
Driller	Every		
Well begun Nati	. 7		1988
completed	anch s	Potes	193804
completedRig used_Cable, Ro	tary, Jet, o	r Cable	teel to 1251
- 1 6 11 17	75-1.		
Depth of well	(F	eet)	
Size of hole (note to	otal amount	of each siz	(e) 12" to
Orall's Or	of the same	1	
854, 8"	40 12		
Main water supply a	t		
Final water head	+ 168	below	
	(Feet abo	ve or below	surface)
Is well pumped?	Jes		
Yield	Opm		
Water level when	pumping	321	
Position of well	(Upland, val	ley, side hil	l, etc.)



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

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"	1044	852	748	Z.K.			
- 1	,			A	J. Na San		
				1354			
*A	s cast, wr	ought iron	, steel, co	oncrete, etc.			
Is	screen use	ed? no	l	Diameter	(Inches)		
Le	ngth	Feet)	Depth to	o bottom			
De	Depth to top Slot size						
	-						
W	here used	.L.,	1(4	de s	C 4		
Ki	nd of pun	np	8CCC	- beat	Dia. Cinches)		
Ca	pacity of	pump	400	(g.p.m.)	(Inches)		
Po	wer used.	<u>Alese</u>	(Kind a	and amount)		
De	epth to bo	ottom of p	ump line	420	feet,		
inc	eluding			fe	et tailpiece.		
Re	emarks on	construc	tion of v	vell			



SAMPLE	DEPTH		THICKNESS	DESCRIPTION OF BEDS	
NO.	From	То	IIIICKIYESS	KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.	
	779	804		blue-gray shale filled in from abo	
	804	828	24'	blue-gray shale filled in from abo blue-gray shale; firm, sticky	
	828	1 1 4 1		gray-white delonite	
			h	3 3	
	845	850		120 600	
	850	855	0.315	DOLOMITIC LIMESTONE	
	855	860		GREY WHITE HAD	
	860	865	N. 10.	000 866	
	865	870		1940 370	
	870	875	9	510 975	
	875	880	Alexander	875 828	
	880	885	m makes	633/663	
1000	885	890		083 830	
	890	895		555 055	
1,00	895	900		165,13011	
12000	900	905	14.74	SHALE STREAKS FROM	
	905	9/0	14	904-000 000	

#29595

	101	-	
#000	-	-	
1100			

SAMPLE	DEF		
NO.	From	То	THICKNESS
2	910	915	Sheege
4334	915	920	- FWF.
	920	925	TEX ME
	925	930	VERY HAR
	930	935	
	935	940	933
	940	945	
	995	950	3HALE @
	950	955	
	955	960	
	960	965	
	965	970	
	970	975	
	975	920	
	280	985	
	985	990	19,44
	000	905	1 40

	DESCRIPTION OF BEDS
	KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.
	DOLOMITIC LAMESTANE
	GRAY VERY HARD @910
	LAMESTONE DARK CKEY HARD
4	928 " " " VENY HARD
	WICHERT
	LIMESTANE GREY HARD
	Car Cons
	WIMESTANE GREY W/WHITE
	SHALE HARD

LIMESTONE GREY WERRY STARLE HARD



			# 2 9 5 9 5	
SAMPLE	DEF		THICKNESS	DESCRIPTION OF BEDS
NO.	From	То	in market	KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.
	995	1000		LIMESTONE GREET W/SHALL
	1000	1005	BROWN	HARD
	1005	1010	@1006	LIMESTONE LTBROWN +GREY
	1010	1015		1-1ARD
	1015	1020		
	1020	1025		Charles Teller
	1025	1030		100 K K K K K K K K K K K K K K K K K K
	1030	1035		with the
	1035	1040		sen reij .
	1040	1095	SHALLE @	132 1 16 V
	1045	1050	1047	LIMESTONE CRE4+ BROWN
	1050	1055	CAEYE	W/WHIPS SHALE
	1055	1060	1651	LIMESTINE GREYVERY
	1060	1065		1-1 ARD
	1065	1070		411 1911
	1070	1075	UERY	THE WALL
	1075	1080	HARDE	LIMESTONE CREY + BROWN
			1077	VERY HARD

SAMPLE	DEPTH		THICKNESS	DESCRIPTION OF BEDS
NO.	From	То	THORITIES	KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.
	1080	1085		LIMESPONEGREY + BROWN
	1085	1090	7	VERY HARD
	1090	10957	2 * 4 1 1 1 1 1	LIMESTONE GREY + BROWN
	1095	1100		Linestone, gray hard
	1100	1105	1 / 1/4/4	Linestone, gray hard
	1105	1110	17.3	Limestore, hard gran
	1110	1115		LIMESTONE + SANDSTANE
	1115	1120		GREY HARD
	1/20	1125		16/11/3031
	1125	1130		120 113
	1130	1135	DOLONIE	
-13	1135	1140	@1136	DOLOMITE LIGHT GREY HARD
100	1140	1145		-27 1/2/
	1145	1150		1000 1000
	1150	1155		195
	1155	1.160	11015	WELLING SERVENTS
	1160	1165	@1166	DOLONITE W/SHALE SILEARS

				0 1 #25000
SAMPLE NO.	DEF		THICKNESS	KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.
NO.	From	To	1950	
· Aurora	1165	11/0	10 may 1 1	DOWNITE WISHALE BREAKS
	1170	1175		- ICKET MAKE
	1175	1180		
	1180	1185		
	1185	1190	2HANGER	
	1190	1195	1191'	LIMESTONES CREY + DARK BROWN
	1195	1200	//-	VERY HARD
	1200	1205	1	
	1205	1210		
	1210	1215		
	1215	1220		
Carlotte L	1220	1225		
	1225	1230		
	1230	1235		
	1235	1240		
	1240	1245		
	1245	1250	125/	TOTAL DERTH 3-2-89