IOWA GEOLOGICAL SURVEY In Cooperation with U. S. Geological Survey RECORD OF WELL

Location:						
Town: STUIART	(NE) (SW) County GUTHA	RIE				
5w sec. 33 T. 78 N., 1	R. 30 (W)	Twp.				
Well name and number						
Owner STUART TOWN WELL	Address VIV STUART	tong				
Tenant (1962)	Address	Pumping water level				
Contractor THORPE WELL Co.	Address DES Moi	NES, 10WA TEST BLORE				
Drillers						
Drilling dates	APRIL 1 . DEC-6, 1962	Ouration of pump				
Well data: Altitudes: Drilling curb		se capac				
Determined by		dos estado				
Agreed and agreed agreed agreed and agreed and agreed agre						
Total depth: Reported 2801						
Drilling method C		<u> </u>				
Hole and casing data 260' of 22" CSG1 0 260'						
8	30' OF 14" OD CSG. 0-830	- CEMENTED				
8" CS (5. SET @ 2375 CEMINTED	INTO THE 14" STRING				
Original depth to waterft.	above below Date	e				
Source of data						

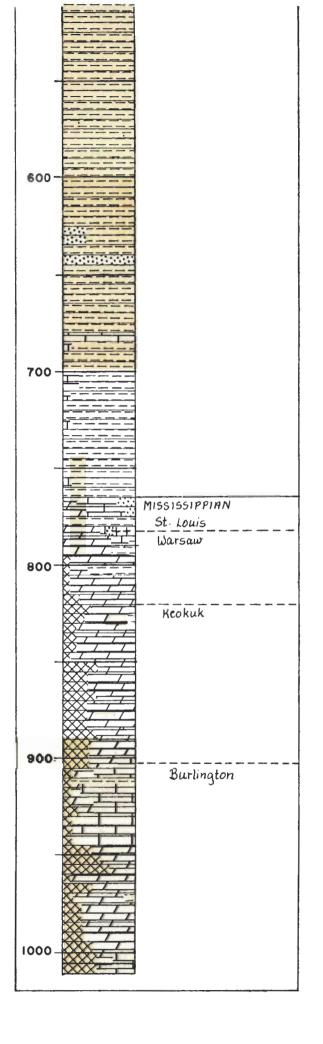
	2375	A comment
Sources of water:		IEN, JORDAN, ST-LAWRENCE
n fi	Others	2 WOLAND
1	PRODUCTION DATA	
Date		
Static water level	370	eduted the solution
Pumping water level	440 sanahi	
Yield (g.p.m.)	500 - TEMP WATEN	76 - HANDNESS 29 GHANS
Measuring point		DETINO,
Duration of pumping	98 HOURS	575111711
Specific capacity		Seilling di tes
	LABORATORY DATA	TL4- 621- 625 [Incl
Well No. W1745	4 Sample range 0 - 2800	No. of samples 418
No. of dupls. and cond	1. 418; Good Washed	range 351-2800"
Samples prepared by	Larry Pabst KOB	Date Apr. Tabec. 1962
Logged by	NONTHUP	Date 1962
Correlations by		Date 1962

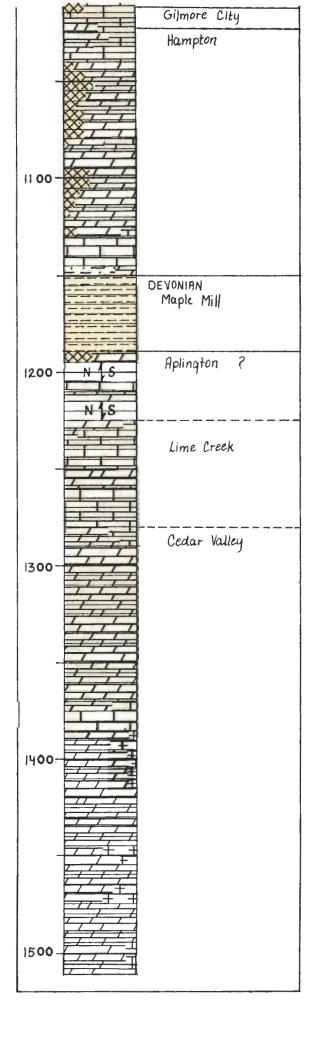
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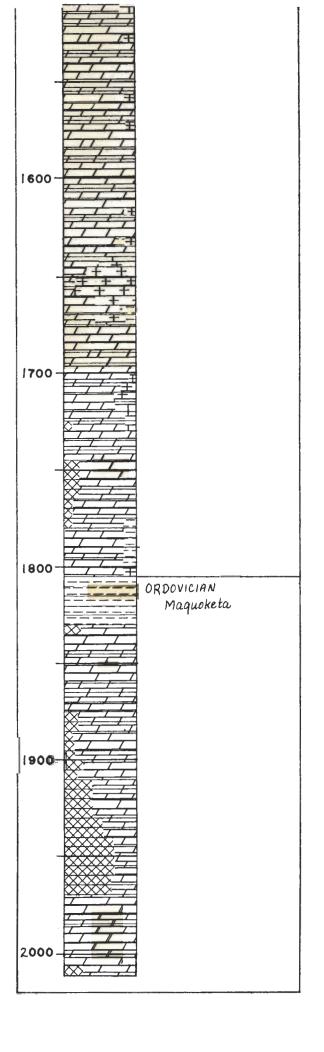
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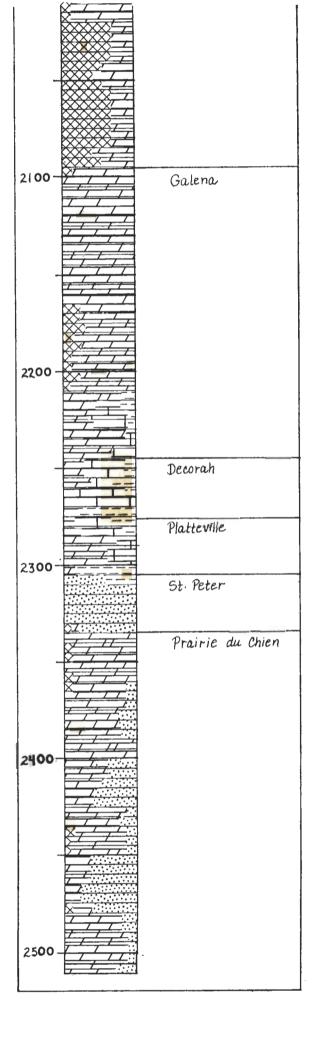
0 Belook cement pt" csq

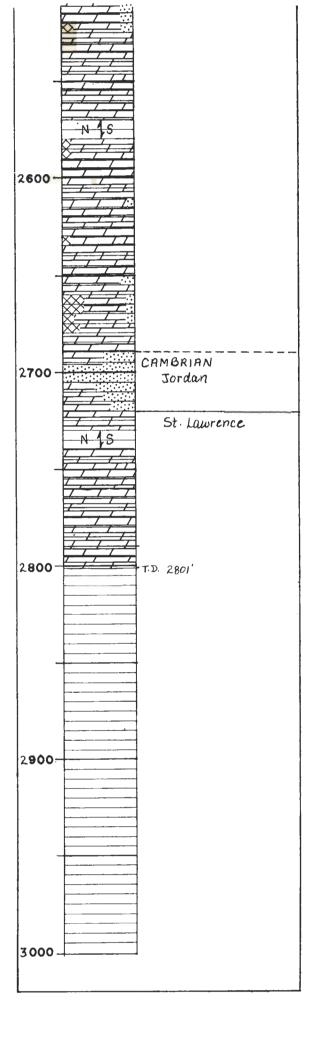
Depth	Log	Formation			
			IOWA GEOLOGICAL SURVEY		
1		DIFICTORENE			
		PLEISTOCENE	In Cooperation with		
1	******		U.S. GEOLOGICAL S	URVEY	
			lowa City, lowa		
			Name	State	
				Iowa	
-		1	Stuart City Well (1962)		
}	****		Town County	Loc.	
1		1	Stuart Guthrie		
İ	* * * * * *]	Contractor Driller	Sec.	
İ			Thorpe Well Company	33	
1			Drilling Dates	T. N.,R.	
100 -		1	April 1- December 6, 1962	78 N. 30W	
100 -			Casing Record	1411	
	* * * * * * * *		Cusing Record		
			260' of 22" csq. 0-260'		
1		1	832' of 14" csg. 0-832'		
			8"csa set at 2375' and cemented		
1		}	into the 14" string		
	*******]		
-			S.W.L. G.P.M. D.D.		
1			370' 500 70'		
			370 300 10		
	7 7 7 7 7		Remarks	Elev. 1220 ±	
200-		1	Water temp. 76°	1220 1	
200-			'	Th	
			Water hardness 29 grains	1. D. 2801'	
	* * * * * * *		Logged By	I.G.S. No.	
	7 8 W T T T		Northup 1962	W- 13454	
			1 Northice 110F	70 10707	
	2 F F F F				
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	0,000		Explanation		
		PENNSYLVANIAN	of Colors		
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1			Soil		
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300-			Prift		
1			5		
			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	irave!	
	:::- <u>-</u> :-		Shale		
			Sandstone	•	
-			Limestone	.	
			Dolomite		
			Chert		
			<u>∓</u> ∃ Gypsum (or Anhydrite	
400-				, , , , , , , , , , , , , , , , , , , ,	
			Coal		
			NIS No Sampl	es	
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G-W files Stuart (Gutherie) Gen Deita

MEMO

June 13, 1962

To: Dr. H. G. Hershey and Dr. C. N. Brown

Re: Stuart Town Well

Mr. Atchison called from Thorpe Well Co. on Wednesday morning after sending us samples from the new Stuart town well taken from 790'-820'. He asked me to check them and see if they were into the Mississippian yet. Although the samples are very cavey with Pennsylvanian Shale and sandstone, the cuttings from 790' to 800' and from 805' to 810' show what appears to be St. Louis type limestone. Also limestone can be found in the other samples after washing out the shale. A total depth of 830 feet has now been reached and cherty limestone and dolomite has been reported. These remaining ten feet as well as the samples from the entire upper part of the hole are now on the way to us.

I phoned Mr. Atchison back after checking the samples which arrived today, and he plans to set and cement a string of 14" of casing from surface to 830'. This will case off all the Pleistocene and Pennsylvanian section. At present there is a 22" string of casing from the surface to 260 feet.

Unfortunately we have no samples from the old Stuart well down to 1180', but the new well seems to have picked up the Mississippian a bit higher than our forecast, and is running close to the Menlo town well just four and a half miles west.

IOWA PRESS CLIPPING BUREAU

Des Moines, Iowa

Herald Stuart, Iowa

Progress Report On Stuart's New Well

A report the first of the week from the new deep well for Stuart says that the drilling is now down 830 feet. At this depth they are putting casing down to cement the first stage.

Work continues 24 hours a day and is progressing satisfactorilly.

IOWA PRESS CLIPPING BUREAU

Des Moines, Iowa

Herald Stuart, lowa

JUN 28 1962

First Section of Stuart's New Well Is Cemented



Pictured above is the machine which was used to cement the casing of the new Strart well. Two of the ready-mix trucks used to haul the bulk cement can also be seen in the picture. Before work could be started all trucks had to be at the well site because when once they start they cannot stop until the job is completed.

Work on drilling had progressed last week to the point where on Friday they cemented the first 832 feet of the new Stuart well. This first section is a 14 inch casing and is cemented on the outside. This cementing will prevent any surface or seapage water entering the well.

The Haliburton Cement Co. of El Dorado, Kans. did the work. This is accomplished by placing a plastic valve in the bottom of the 14 inch casing. A two inch pipe is connected to the valve and pure Portland cement mixed with water at the rate of 15 pounds to the gallon is forced up around the outside of the casing until the space is completely filled and forced out at the top.

Cement for this operation was hauled from Des Moines. Dry cement was transported in readymix trucks, eight of them being used. They mixed 843 sacks of cement and forced it into place in just 57 minutes.

This concrete is being let set while the drilling machine is being overhauled. The plans are to start drilling again on Thursday.

An eight inch casing will be put down to a depth of 2450 feet and this cemented in. Then drilling will be continued to the final depth of 2850 feet where the Jordan vein of water is located.

Stuart

IOWA PRESS CLIPPING BUREAU

Des Moines, Iowa

Herald Stuart, Iowa

DEC. 1 3 1962

Drilling on Stuart well completed at 2801 ft.

Drilling for water for the new test is made there is no way of too important - now that officials from the State Geological Department was received in order to be sure that the correct depth had been reached.

The depth of the new well is 2801 feet. Workmen were busy Wednesday installing a test pump. This

Stuart, well was completed last determining what or how much the know they have the water available Friday morning. Dec. 7. It was new well will be capable of deliving an emergency should arise. necessary to wait until the report ering. Size of the new pump to be installed will depend on results of these tests.

So many factors enter into the length of time after test pumping is completed until the new well is ready for use, that is is impossible to estimate when this will be. test pump is capable of pumping Since there is presently an ade-400 gallons per minute. Ibitil the quate supply of water this is not week or so.

Drilling for the new well was completed in just over eight months. The company was very fortunate in that there were no serious delays, break downs, or time spent retrieving lost equipment.

More information about the well should be available within the next