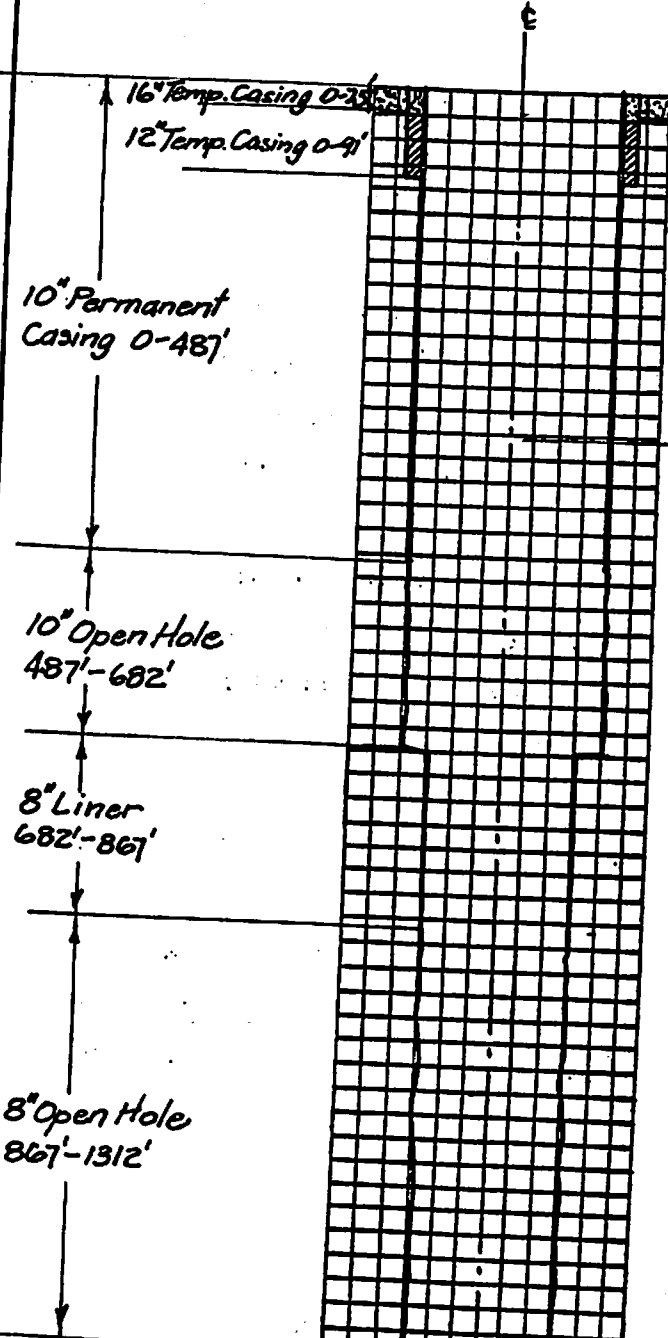


GEOLOGICAL DATA			CASING DATA	WELL DATA	
Formation	Material and distance from surface in ft.	Series	Position, kind and extent of casing, liners, shoes, etc.	Scale: Horizontal $1"=10'$ Vertical $1"=200'$	Position of seals, screens, static level, etc.

Black Drift	0
Yellow Clay	10
Blue Clay-Sandy	87
Shale	110
Lime	110
White Lime-Shale Bands	203
Shale	
Lime	345
Shale	365
Lime & Shale	400
Shale	477
Lime	590
White Lime-soft	705
Grey Lime-shale	743
Shale	750
Lime & Shale	795
Shale-light	800
Sandstone-shale	847
Grey Lime	900
White Lime	940
Grey Lime	965
Sandstone	990
White Lime	1035
Grey Lime	1095
Brown Lime	1190
Sandstone-very hard streaks	1255
Sandstone-soft	1285
Sandstone-hard	1312



Cement Grout 0-25'  
Clay Seal 25'-91'

Static Level = 358.2' 8/26/55

IOWA  
STATE DEPARTMENT OF HEALTH  
DIVISION OF PUBLIC HEALTH ENGINEERING  
DES MOINES

Place      Arlington, Iowa

Date      August 26, 1955

Report on    New Well Pump Test

By          M. V. Stephenson

Approved

Director

Date of report

Division of Public Health Engineering

M E M O R A N D U M

On the above date the writer attended a pump test for a new well recently completed in Arlington. The location of the well is in the Town Park referred to in the writer's report dated June 9, 1955. A. J. Feulner and Walter Steinhilber, Iowa Geological Survey conducted the pump test.

The total depth of the new well is 1312' and is cased with 10" casing from the surface down to 487'. A clay seal was placed around the casing from 25' to 91', and a cement grout seal from the surface to 25'. 185' of 8" liner was placed in the hole between 682' and 867'. The static water level on this date was measured at 358.2' below the top of the 10" casing and the pumping level was measured at 377' below the top of the 10" casing while pumping at the rate of 133 gallons per minute, after 5½ hours of continuous pumping. The water temperature was 52°F. The well contractor was Hoeg and Ames, Lincoln, Iowa, and the driller was Erv Fink.

The following information was obtained from the driller's log:

0-5'	Black drift	795-800'	Shale-light
5-10'	Yellow clay	800-847'	Sandstone-shale in
10-87'	Blue clay, sandy		lower part S.L. 364'
87-89'	Shale	847-900'	Grey lime
89-110'	Lime	900-940'	White lime-some water
110-203'	White lime-shale bands		925'-935'
203-345'	Shale	940-965'	Grey lime
345-353'	Lime	965-990'	Sandstone
353-365'	Shale	990-1035'	White lime
365-400'	Lime & shale	1035-1095'	Grey lime
400-477'	Shale	1095-1190'	Brown lime
477-590'	Lime	1190-1255'	Sandstone-very hard
590-705'	White lime-soft		streaks
705-743'	Grey lime-shale bands	1255-1285'	Sandstone-soft
743-750'	Shale	1285-1312'	Sandstone-hard, grey
750-795'	Lime & shale		

MVS

MVS:mmm