STRATA RECORD Kelley WELL

Black soil	- 1 to 5'
Yellow clay	- 51 " 301
Blue clay	- 30' " 55'
Yellow clay	- 55' " 95'
Blue clay	- 9511 1951
Sand, mediumfine, brownish-gray	195" 205"
Sand, slightly coarser than above, gray	2051" 2561
Blue clay	21611 2181

WELL DATA

Feet of 3" pipe driven in well 216' just thru sand.
Feet in clay below sand (2) two.
Two feet below casing filled and tamped with gravel & rock.
Length of cut screen thirteen (13) feet.
Bottom of screen set at point 216' below the curb.
Extension of length of with 5' 6" with 6" pipe with packer on top of pipe makes over-all length of the WELL SCREEN 18' 6".
Pipe was pulled back over screen fourteen feet.
Packer SECURELY SEALED.

WELL TEST.

Well was tested on July 25 and 26 for a pumping period of approximately eight hours. At close of test water showed no appreciable draw-down. Size of cyl.used in well 52%, drop pipe 126° of 6". Length of pump stroke 36" Approximate output per minute 100 gallons.

DEPTH from Curb to water 81 feet.

MOTICE * WARHING

To all persons handling equipment to place in this well it should ALWAYS be KEPT in MIND that anything dropped into the SCREEN in this well may damage or even ruin it, there-fore this duty should be performed only by men with experience and safe equipment.

Des Moines Series

June 19, 1939

III ammeraturate de la companie de l

Mr. R. W. Brooks
Layne-Western Company
807 World-Herald Building
Omaha, Nebraska

Dear Mr. Brooks:

Coological Formation -

Subject: Kelly, Iowa

The present well at Kelly, Towa, has a reported depth of 225 feet. The driller's log is as follows:

Drift and yellow clay
Sand (very little water)
Clay, yellow
Clay, blue
Sand, to
6" hole, 8' strainer in bottom.

From the above log, I infer that the top 150 feet is glacial drift material of the normal type. However, between 150 and 222 feet the top of the Pennsylvanian system should be reached and it is my interpretation that the well is finished in a Pennsylvanian sandstone.

According to records in our files, the present well produced 50 g. p. m. for the duration of a ten-hour pumping test. We have no record of the water level or drawdown. The attached sheet shows the mineralogical character of the water from the Kelly well.

greatly if you will save samples and record a log for the Geological Survey.

Very truly yours,

HGH: LM

H. G. Hershey

IOWA GEOLOGICAL SURVEY Water Well Data Sheet

Survey W-0199

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Kelly, Iowa

Depth	225 feet
Geological Formation	Pennsylvanian Des Moines Series
Dissolved Solution	540
Insoluble Matter	18.8
NO ₃	0.0
Na	63.4
Ca	78.5
Mg	33.1
Fe	0.8
	0.1
A1	1.9
	Tr.
C1	5.0
804	148.7
HCO3	392.8
PO4	0.0
B03	4.0
Calc. Hardness	-333.0