

IOWA GEOLOGICAL SURVEY
In Cooperation with U. S. Geological Survey

1868

RECORD OF WELL

Location:

Town: Clarence (N E)
(S W): County Cedar

C SW NE sec. 27 T. 8 N., R. 2 W. Twp.

Well name and number Clarence Town Well (1950)

Owner _____ Address _____

Tenant _____ Address _____

Contractor Thorpe Well Co. Address _____

Drillers _____

Drilling dates Oct. 1950

Well data:

Elevations: Drilling curb _____ feet: Land surface 854 _____ feet

Determined by _____

Topographic position _____

Total depth: Reported _____ feet, Measured _____ feet

Drilling method _____

Hole and casing data 66' of 8" set at 65' and cemented

Original depth to water 63 ^{above} ft. below _____ Date _____

Original elevation of water level _____ ft.; Source of data _____

Sources of water: Principal Silurian; Others _____

Production data:

Date _____

Static depth to water 63

Measuring point _____

Pumping level ?at 150

g.p.m. _____

Specific capacity _____ g.p.m. per ft. drawdown; Temperature _____ °F.

Pump data: Type pump _____

Column Dia. _____

Length _____

Cylinder or bowls: Dia. _____

Length _____

Suction pipe _____

Power _____

Airline _____

Estimated rate or productions: _____

g.p.m. for _____

hrs. a day _____

Use of water _____

WATER ANALYSES (in parts per million)

Date samples _____

Samples by _____

Total solids _____

Insoluble matter _____

Alkalinity (Meo) _____

Alkalinity (Phn) _____

pH _____

 $\text{Fe}_2\text{O}_3 + \text{Mn}_2\text{O}_3 + \text{Al}_2\text{O}_3$ _____

Alkali as sodium _____

Calcium _____

Magnesium _____

Iron (unfiltered) _____

Manganese _____

Nitrate _____

Fluoride _____

Chloride _____

Sulfate _____

Bicarbonate _____

Hardness (ppm) _____

Hardness (gpg) _____

Remarks _____

Laboratory data:

Sample storage location CI 10-4Sample range 0-300No. spls. 41No. dupls. & cond. 41 GoodSpls. prepared by AUFWashed range 58-200by AIF 7/23/51

Driller's log and cond. _____

Insoluble residues: Prepared by _____

Studied by _____

Strip log _____

Microscopic study _____

strip log MAY 18, 1951

Gen. log _____

Correl. by Northup

Northway Well and Pump Co.

4895 8th Avenue
Marion, Iowa 52302
Phone 319/377-6339

DNR

APR 3 1996
GEOL. SURVEY

Drilled for City Water Works at Clarence, Iowa

Well is located miles N-E-S-W and miles N-E-S-W from

in the SE $\frac{1}{4}$ NE $\frac{1}{4}$ Section 27 Township 82 N Range 2W

Drilling started February 6 19 96 Completed March 21 19 96

Well No. #2 Kind of Well Drilled Depth 200' to 387' Size hole started 7 1/2 in

Finish 7 1/2' G. P. M. 265 Static Head 79' Pumping level from surface 181'

Water was first encountered at 85' in Approx. Amt. Temp.

Remarks This well was drilled in 1950 to 200'. The well was deepened in 1996 to 387' to obtain more water.

(GIVE DETAILS OF PERFORATED PIPE AND SEALS)

RECORD OF PERMANENT PIPE

TEMPORARY PIPE

SIZE PIPE	AMOUNT OF PIPE	DEPTH TO BOTTOM OF PIPE	DEPTH TO TOP OF PIPE	MAKE OF PIPE	SIZE PIPE	AMOUNT
Original 8"	66'	65'		Steel (Cemented)		

Driller (1950) Tom Thorpe (Cable tool) From Surface to 200' feet

Driller (1996) Kevin Northway (Cable tool) From 200' feet to 387' feet

Driller (1996) Leon Carpenter (Cable tool) From 200' feet to 387' feet

AMOUNT IN FEET	KIND OF SOIL OR FORMATION (BE SPECIFIC)	TOTAL DEPTH FEET
5	Black dirt	5
5	Yellow clay, sandy	10
25	Yellow clay	35
15	Yellow clay, sandy	50
5	Gray clay, sandy	55
3	Dark gray clay	58
2	Light buff limestone	60
10	Limestone light (broken)	70
15	Light buff limestone, soft small amt. of water	85
25	Brown limestone	110
8	Broken brown limestone	118
9	Yellow limestone (hard)	127
23	Yellow limestone (soft and creviced)	150
50	Yellow limestone	200

1950

AMOUNT IN FEET	KIND OF SOIL OR FORMATION (BE SPECIFIC)	TOTAL DEPTH FEET
3-1996	Deepened from 200' to 387'	
40	Light brown limestone	240
10	Light to dark brown limestone	250
11	Light brown limestone	261
5	Light brown limestone with sand	266
10	No cuttings (creviced)	276
44	Light brown limestone (creviced)	320
5	Light gray limestone (creviced)	325
5	Light brown and gray limestone	330
25	Gray limestone	355
20	Dark gray limestone (Hard)	375
5	Light gray limestone	380
7	Dark gray limestone	387
2	Gray shale	389

WELL TEST DATA REPORT

NORTHWAY WELL AND PUMP COMPANY

4895- 8th Avenue, Marion, IA 52302
319-377-6339

100 North 6th Street, Waukeg, IA 50263
515-987-4575

DNR
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Customer Water Works Dept. City Clarence, IA Location Behind Water Plant

Well No. #2 Size of Casing 8" Total Depth 387' Construction 200' to 387' Drilled from

Pump Make Sumo Model No. C9 No. of Stages 9 Diameter 6"

Total Setting 294' Air Line Length 294' Meter Used 4" Static Level 79'

DATE	TIME	GPM	P.L.	D.D.	S.C.	PSI	DISCHARG DESCRIPTION
3-22-96	10:00 AM	265	181'	102'	2.5 gpf	0	Dirty
	10:15	265	181'	102'	2.5	0	Cloudy
	10:30	265	181'	102'	2.5	0	Cloudy
	11:00	265	181'	102'	2.5	0	Cloudy
	11:30	260	183'	104'	2.5	0	Cloudy
	12:00 PM	258	184'	105'	2.45	0	Cloudy
	12:30	258	184'	105'	2.45	0	Cloudy
	1:00	254	186'	107'	2.37	0	Cloudy
	1:30	250	189'	110'	2.27	0	Cloudy
	2:00	250	189'	110'	2.27	0	Cloudy
	2:30	250	189'	110'	2.27	0	Clearing
	3:00	250	189'	110'	2.27	0	Clearing

Note: Well recharged in 4 minutes 25 seconds.