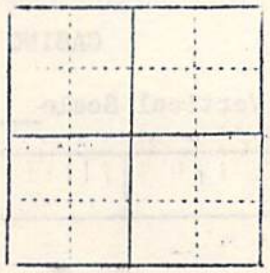
W 7306

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

RECORD OF WELL



Location:

Town: Anamosa (N E / S W) :County Jones E.

SESESE sec. 3 T 84 N., R. 4 W. Fairview Twp.

Well name and number Anamosa Town Well # 2

Owner _____ Address _____

Tenant _____ Address _____

Contractor Hoeg & Ames Address Lincoln, Iowa

Drillers _____

Drilling dates Aug 5 - Aug 29, 1955

Well data:

Elevations: Drilling curb _____ feet; Land surface 843 feet

Determined by alt. 1966

Topographic position _____

Total depth: Reported 405 feet, Measured _____ feet

Drilling method CABLE TOOL

Hole and casing data 16" to 62'10", 107'1" of 12" I.D.

Original depth to water 66 ft. ~~above~~ below _____ Date Aug 29, 1955

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

Sources of water: Principal _____; Others _____

Some at 130'; at 180' & 325'

Production data: Date Aug 30, 1955

Static depth to water 66 Measuring point Top of Casing
Pumping level 210 at 300 g.p.m.

Specific capacity _____ g.p.m. per ft. drawdown; Temperature 53 °F.

Pump data: Type pump _____ Column Dia. _____ Length _____
Cylinder or bowls: Dia. _____ Length _____ Suction pipe _____
Power _____ Airline _____
Estimated rate of production: _____ g.p.m. for _____ hrs. a day
Use of water _____

WATER ANALYSES (in parts per million)

Date samples				
Sampled by				
Total solids				
Insoluble matter				
Alkalinity (Meo)				
Alkalinity (Phn)				
pH				
$Fe_2O_3+Mn_2O_3+Al_2O_3$				
Alkali as sodium				
Calcium				
Magnesium				
Iron (unfiltered)				
Manganese				
Nitrate				
Fluoride				
Chloride				
Sulfate				
Bicarbonate				
Hardness (ppm)				
Hardness (gpg)				

Remarks _____

Laboratory data: W 7306 Sample storage location EH4-7,8
Sample range 0-405 No. spls. 80 No. dupls. & Cond. 80 good
Spls. prepared by Campbell Washed range 60-405 by Campbell 9-6-55
Driller's log and cond. _____
Insoluble residues: Prepared by _____ Studied by _____ Strip log _____
Microscopic study _____ strip log 11/28/55
Gen. log _____ Correl. by NORTHUP

WATER LEVEL DATA

Measuring point _____

Date	Depth to water	Altitude	Remarks

REMARKS

well pumped 8 hrs. Aug 30, 1955, at various rates. when pumped at 320 gpm, with a pump setting of about 200', air was pumped.

With a rate of 200 gpm, a pumping level of about 156 feet was reached

IOWA GEOLOGICAL SURVEY
Iowa City, Iowa

Well Log Record

Well name and number Anamosa #2 Town _____ County _____

Owner of well _____ Address _____

Tenant _____ Address _____

Location _____ sec. ____, T. ____ N., R. ____ E. W. _____ Twp.

Curb elevation _____ ft. Present depth _____ ft. final depth _____ ft.

Static level: (Depth to water above below curb) 66 ft. Pumping level ____ ft. at ____ g.m.

Contractor Hoeg & Ames Date drilled _____

Description*	FEET Thick	From	To	Description*	FEET Thick	From	To
Fill		0	4	gray lime		205	235
Yellow clay		4	15	gray lime		235	250
blue clay		15	59	wh & gr lime		250	277
Yellow Ls, broken		59	107	~~hard dolomite~~ same a.a.		277	302
Yellow lime		107	112	hard dolomite		302	330
Yel lime & mud seam		112	120	lime or dolomite		330	355
mud seam, broken Rx		120	140	dolomite		355	385
wh-yell, good lime		140	160	dolomite		385	397
wh lime		160	175	shale		397	405
gray lime		175	205				

*Abbreviate descriptions: use one line for each formation

Remarks on water zones and casings _____

Temperature: Air _____ °F., Water _____ °F. at A.M. P.M. _____ 19__

Record obtained from _____ Recorded by _____

Table I

Location: Behind City Hall in Anamosa, Iowa

Present Depth: 405'

Contractor: Hoeg & Ames

Driller: Leroy Ames

Date drilled: August 5-29, 1955

Hole size: ?

Casing data: 16" to 62' 10"; 12" ID from 0 to 107'1".

Water level: Depth to water before pumping was 66 feet below casing, which is about 2 feet above land surface.

Test pump: Turbine (oil lubricated) powered by gasoline engine with belt drive.

Aquifer: Mainly Silurian limestones

Measurements: Water level measurements (table 2) made with electric line. Discharge rate was determined by periodic measurements of flow into a large tank.

Observers: W. L. Steinhilber and Orville Van Eck

Table 2

Time (minutes)	Water level (ft.)	GPM	Remarks
1 to 285	?	average 300	Couldn't get accurate measurements, because water entering well from above.
	at least		
285 to 300	210'	320	pumping air.
300 to 365	?	280	couldn't get w/l measurements
381		200	
402	157.4		
420	156.2		53°F
442	155.5	210	water sample collected
465	157.9		
478	156.1	213	
492			pump stopped
1	116.4		recovery meas.
2	112.8		
4	106.6		
5	103.0		
6	101.2		
7	100.2		
8	98.6		
9	97.6		
11	96.0		
13	94.8		
15	93.7		
17	92.7		
19	91.8		
21	91.1		
24	90.2		
32	87.9		
37	86.9		