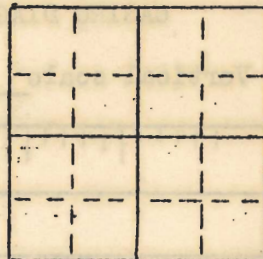


IOWA GEOLOGICAL SURVEY
In Cooperation with U. S. Geological Survey

W-1302

RECORD OF WELL

Location:



Town: Anthony (N E)
(S W): County Woodbury
E. sec. 32 T. 88N R. 43W E. No., R. W. Twp.

1978 field located

Well name and number City Well (?)

Owner _____ Address _____

Tenant _____ Address _____

Contractor Rasmussen Well Co Address Sioux City

Drillers _____

Drilling dates Nov. 1 - 29, 1940

Topo Elev. 1130' C.I. 20'

Well data:

Elevations: Drilling curb _____ feet; Land surface _____ feet

Determined by _____

Topographic position _____

Total depth: Reported 159 feet, Measured _____ feet

Drilling method cable tool

Hole and casing data 144' of 10" casing

10" hole. 0-159.

Original depth to water _____ above ft. below _____ Date _____

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

Sources of water: Principal 144-59; Others _____

Production data:

Date _____

Static depth to water _____

47'

Measuring point _____

top of 10" pipe

Pumping level _____

28'6"

at _____

300

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 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 ₂ O ₃ + Mn ₂ O ₃ + Al ₂ 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 _____

Sample range _____

0-160

No. spls. _____

32

No. dupls. & cond. _____

32 good

Spls. prepared by _____

Summerford

Washed range. _____

by _____

Driller's log and cond. _____

No

Insoluble residues: Prepared by _____

Studied by _____

Strip log _____

Microscopic study _____

M. Allison

strip log _____

Gen. log _____

Correl. by _____

IOWA GEOLOGICAL SURVEY
Water Well Data Sheet

W-1302

Survey
Number

Town Arthon County Woodbury T. N., R. 43 W.

Name City well ? Location $\frac{1}{4}$ $\frac{1}{4}$, Sec.

Contractor Rasmussen Well Co Driller Use
Sioux City Drilling

Construction Drilled Drilling Dates 1940 Depth

Topog. Curb Elev. Ref. Total Depth 160'

Final above Static below Pumping Draw Time
Level curb Level down gpm pumped Date

Depth to bot. pump ft. with ft. suction pipe. drawdown Calc. g/ft. Prin.
Producing Prod.

Horizons

Water levels and pumping tests on various horizons during drilling:

Depth Range	Stat. Level	Pump Level	Draw down	gpm.	Temp.	Producing horizons	Producing formations	Formations cased out

Additional information

Laboratory Data

Sample range 0-160 Number samples 32 Number Duplicates 32 Cond. Good
Yes Sumnerford 0-160 Dec 4 1940
Log No, Cond. Boxed Range Date

Remarks

Microscopic Strip Gen. Blue Samples
Study Range Log Log Print Washed
Insol. Res. Strip Gen. Insol. Res. Well
Study Range Log Log Prepared Corel.

BUELL & WINTER ENGINEERING CO.

CONSULTING ENGINEERS

INSURANCE EXCHANGE BUILDING
SIOUX CITY, IOWA

PLANS
ESTIMATES
APPRAISALS

REPORTS
SUPERVISION

SEWERAGE
WATERWORKS

PAVEMENTS
SEWAGE DISPOSAL
POWER PLANTS

September 23, 1940

Mr. H. G. Hershey
Iowa Geological Survey
1003 Geology Building
Iowa City, Iowa.

RE: ANTHON, IOWA

Dear Mr. Hershey:

Regarding your letter of September 21st on the
above project our specifications provide that the
driller is to save samples for the Geological Survey.

Very truly yours,

BUELL & WINTER ENGINEERING CO.

WEB:ER

By-

J. W. Buell

MAYOR
SAM REYNOLDS
CLERK
LYLE J. HILL
TREASURER
W. R. CHICOINE

TOWN OF ANTHON
Anthon - Iowa

COUNCILMEN
HOMER M. BOYD
F. P. CAULEY
M. G. DICKS
ROY PITKIN
F. M. TRECKER

October 11, 1940.

Mr. H. G. Hershey
Iowa Geological Survey
Iowa City, Iowa.

Dear Sir:

In Answer to your letter of Sept. 21, 1940.

The contract for the new well was awarded to Rasmussen Well Co. of Sioux City, Iowa. I spoke to Mr. Rasmussen in regards to the takeing of samples and log. He stated he would be glad to cooperate.

Please send containers and log book.
Expect to start drilling week of October 14th.

Yours truly,

Lyle Hill
Town Clerk.

Herald
Anthon, Ia.

SEP 18 1940

Ask For Bids on New Well, Pump House

Sealed bids will be received by the town of Anthon up to 1 p. m. Friday, Oct. 4, for the drilling of a new well, new pumping equipment and a pump house.

Negotiations for the purchase of a tract of land from the George Lyons estate as the site for the new well were completed recently by the town council, and plans and specifications for the improvements to the town's waterworks system have been drawn up and are on file at the town clerk's office and engineer's office, the Buell and Winter Engineering Company of Sioux City.

Elsewhere in this issue of The Herald appears the advertisement for bids on the improvements. Bids will be received and separate contracts may be awarded on the following sections of the work: Section 1—Well. Section 2—Pumping equipment. Section 3—Pump house.

At 1 p. m. Friday, Oct. 4, the town council will meet to open all bids and to hold a hearing on the plans, specifications, contract form and the cost of the improvements. A contract for all three phases of the work or separate contracts for each of the three sections may be awarded at that time if the bids submitted are deemed satisfactory.

Contracts will provide that active work be started within two weeks after the awarding of a construction contract. The well is to be completed by Nov. 15, 1940, the pump house by Dec. 3, 1940, and the pumping equipment by Jan. 1, 1941.

The contract and bond shall contain a condition requiring the contractor to carry workmen's compensation, public liability and property damage insurance and the contractor and his bondsmen to replace and put in proper condition any defects in the work caused by improper materials and workmanship which might arise or develop within a period of one year after the completion and acceptance of the work by the town.

Sealed bids are to be filed with the town clerk, and the extent of the work, kind of materials, and methods of construction are to be as shown by the plans and specifications now on file in the office of Town Clerk Lyle Hill and at the engineer's office in Sioux City.

Since a new well has been needed for some time as a safeguard to health and property, the council's purchase of a site high enough so it will not be flooded by heavy rains, and the decision to go ahead with drilling a new well, building a new pump house and installing new pumping equipment will be endorsed heartily by residents of the town. With two wells, there will be no danger of a water shortage or lack of adequate pressure for fighting fires in case one of the wells should cease functioning for any period of time.

The town council is to be commended for taking this forward step, which is for the best interests of all residents of Anthon.

DRILLER'S NOTEBOOK

WELL RECORD

Driller

Rasmussen Well Co

Address

Sioux City

Farm or Town

Anthony Ia

Owner

11

RETURN TO
IOWA GEOLOGICAL SURVEY

Des Moines, Iowa
IOWA CITY, IOWA

WELL RECORD

Well is located $\frac{1}{2}$ miles in a West direction
from Anthony in Ia. in the
(Post office) (State)

$\frac{1}{4}$ sec. T. R.

Owner Town of Anthony

Address

Contractor Rasmussen Well Co

Address Sioux City Ia

Well begun Nov 4, 1940; completed Nov 29, 1940

Rig used—cable, rotary, jet, or

Maker Driscoll

Diameter of well at mouth 10" (Inches); at bottom 10" (Inches)

Depth of well 159' (Feet); Length and size of casing 144' 10"

Standard water well pipe

Water at (Depths in feet) ft.

Main supply at 144' to 159' ft.

Water head 47' to top of 10" pipe ft.

Is well pumped? Yes; Yield 300 (Gallons per minute)

With an 18' 6" Blow Down

Recorded by Allen Jensen

Address Sioux City Ia