V-3353

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

V-3353

30

RECORD OF WELL

Location:
Town: Hawkeye (N E) (S W): County Fayette
NE NW NE sec. 30 T 94 N.; R. 9 E W. Twp.

Well name and number Hawkeye Iowa Well (1948)

Owner _____ Address _____

Tenant _____ Address _____

Contractor Layne-Western Address Ames

Drillers _____

Drilling dates _____

Well data:
Elevations: Drilling curb _____ feet; Land surface 1167 feet

Determined by _____

Topographic position _____

Total depth: Reported 85 feet, Measured _____ feet

Drilling method Cable

Hole and casing date _____

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

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

Sources of water: Principal _____ ; Others _____

Production data: Date

Static depth to water 23 Measuring point

Pumping level 39 1/2 at 160 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 AIALYSES (in parts per million)

Date samples	2/16/49			
Sampled by	K E Anderson			
Total solids	420			
Insoluble matter	8.5			
Alkalinity (Meo)	258			
Alkalinity (Phn)	None			
pH	7.8			
Fe_2O_3- Mn_2O_3-Al_2O_3	3.5			
Alkali as sodium	17.5			
Calcium	110.8			
Magnesium	14.9			
Iron (unfiltered)	0.7			
Manganese	.09			
Nitrate	0.7			
Fluoride	0.3			
Chlordie	20.0			
Sulfate	76.5			
Bicarbonate	314.8			
Hardness (ppm)	339			
Hardness (gpg)	19.8			

Remarks

Laboratory data: Sample storage location CD8-4

Sample range 0-85 No. spls. 17 No. dupls. & cond. 17 G

Spls. prepared by EMR Washed range by

Driller's log and cond.

Insoluble residues: Prepared by Studied by Strip log

Microscopic study strip log Rmf 0-85'

Gen. log Correl. by

LAYNE-WESTERN COMPANY

WATER SUPPLY CONTRACTORS

WELL WATER SUPPLIES AND
PUMP EQUIPMENT FOR
MUNICIPALITIES
INDUSTRIES
RAILROADS
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THROUGHOUT THE COUNTRY

AMES, IOWA

August 3, 1948

AUG 4 1948

Dr. H. G. Hershey
Iowa Geological Survey
Geology Annex Bldg.
IowaCity, Iowa

Dear Dr. Hershey:

We are pleased to furnish the following information and data on well just completed at Hawkeye, Iowa, for the town. The total depth of well is 85 feet with the top 20 feet drilled to 16" after which 10" pipe was set and driven to 66 feet. Neat cement was placed in the 16" hole around the 10" casing at the top 20 feet to make a seal. 20 feet of 8-5/8" O.D. screen was bailed in to 85 feet with approximately 10 feet of 8" overlap pipe extending up into the 10", and a 12" thick cement block was placed in the bottom. Well was tested for about 8 hours at 160 gallons per minute with a 16½ foot drawdown. The static water level was 23 feet.

We are sending samples of the cuttings under separate cover in same mail.

The log of well is as follows:

0 - 2	Top soil
2 - 9	Yellow clay
9 - 20	Blue tough clay
20 - 29	Yellow clay
29 - 42	Coarse yellow sand and gravel
42 - 56	Coarse red sand and gravel
56 - 66	Coarse blue sand and gravel
66 - 84	Sand and gravel
84 - 85	Blue shale

Yours very truly,

LAYNE-WESTERN COMPANY

M. S. Munson

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MSM:le

must be clay
old town well
(Vol. 21) reports
top of rock at
160 ft. ICEA.