

CARLISLE

Test Hole #1-A

Lronn^R Peterson (Hayne Western)
September 1951

SWL 11' 9"

0 - 4	Top Soil
4 - 10	Brown Sandy Clay
10 - 20	Coarse sand & gravel
20 - 25	Medium sand & gravel
25 - 34	Coarse sand & gravel
34 - 40	Hard blue shale

Location - NE¹/₄ NE¹/₄ 3-77-23 Warren Co.

This is Carlisle TOWNWELL No. 1 (JWC)

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Carlisle (Warren)

**IOWA PRESS
CLIPPING BUREAU**

Des Moines, Iowa

Citizen
Carlisle, Iowa

MAR 7 1952

Happy Over H-2-O

Carlisle housewives are certainly shouting praises these days over the new city water which is now coming into their homes from the new deep well, recently completed, located across North River north of the Carlisle Park. This new water is far superior from that which has been in use, and now that this is the "good, clear, soft water, free from rust and a rank odor, we know everyone is ready to say, "Thanks a Million" to the Town officials, workmen and everyone who had any part in making this fine improvement possible.

Warren

February 8, 1952

Mr. H. C. Patterson
Resident Engineer
Currie Engineering Company
Lock Box 87
Knoxville, Iowa

Dear Mr. Patterson:

Enclosed is a report on the mineral analysis of water from the 35.5-foot Carlisle town well as shown by the sample collected by you on January 16, 1952.

If you have any questions concerning this report, please do not hesitate to let us hear from you.

Very truly yours,

C. Richard Murray

Enclosure

CRM:emh

JAN 18 1952

GENERAL
MUNICIPAL AND INDUSTRIAL
ENGINEERING

SWIMMING POOLS
DRAINAGE

SPECIALIZING IN
WATERWORKS, SEWERAGE AND
STREET IMPROVEMENTS

M. V. NORRIS

F. H. AUSTIN

CURRIE ENGINEERING COMPANY
WEBSTER CITY, IOWA

H. C. PATTERSON,
RESIDENT ENGINEER
LOCK BOX 87
KNOXVILLE, IOWA

Knoxville, Iowa

Jan. 16, 1952

Dr. H. G. Hershey, Director
Iowa Geological Survey,
Geology Annex
Iowa City, Iowa

Gentlemen;

We are shipping you by Express a gallon of water taken from
a new gravel packed well at Carlisle, Iowa constructed at Test
Hole 1 - A for mineral analysis.

Sample was taken by me at five hours after the start of an
eight hour pumping test; rate 150 g.p.m.

Depth of well is 35.5 ft. producing formation Sand & Gravel.

Yours very truly



H. C. Patterson, Resident Engineer

Lock Box 87

Knoxville, Iowa

GENERAL
MUNICIPAL AND INDUSTRIAL
ENGINEERING

M. V. NORRIS

SWIMMING POOLS
DRAINAGE

call 11:00
mg
OCT 10 '51
Warren Co.
SPECIALIZING IN
WATERWORKS, SEWERAGE AND
STREET IMPROVEMENTS

F. H. AUSTIN

CURRIE ENGINEERING COMPANY
WEBSTER CITY, IOWA

H. C. PATTERSON,
RESIDENT ENGINEER
LOCK BOX 87
KNOXVILLE, IOWA

Knoxville, Iowa

October 8, 1951

183 Black.
Community Nat Bk Bldg

Iowa Geological Survey,
Geology Annex
Iowa City, Iowa

Attention Dr. Hershey, Director

Dear Dr. Hershey:-

The Town of Carlisle, Warren County, Iowa is obliged to locate a new municipal water supply to take the place of a shallow well constructed about two years ago and failing.

The Town Council came to our office today and advised they have been putting down test wells North of town in Section 3, Twp. 77, Range 23 W. on the North side of North River and seem to have hit a good quality of water as well as a good supply and ask that we examine the location.

We would like to have Wm. Hale with us on this inspection and wondering if you can arrange for Mr. Hale to assist us in this inspection.

Awaiting your advices in this, I am

Yours very truly



H. C. Patterson, Resident Engineer

Lock Box 87,

Knoxville, Iowa

W 53 2 1

Town: Carlisle { N E }
S W } : County Warren

NE¹/₄ NE¹/₄ NE¹/₄ sec. 3 T. 77 N., R. 23 E. W. Twp.

Well name and number Carlisle Town Test No. 1-A (Final well)

[illegible][illegible]

Contractor Layne-Western Co. Address _____

Drillers ¹ Lronn & Peterson

Drilling dates: Sept. 1951

Well data:

Elevations:	Drilling curb	feet;	Land surface	feet
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Determined by

Topographic position

Total depth: Reported 40 feet, Measured _____ feet

Drilling method

Hole and casing data

Original depth to water 11'9" ^{above} ~~ft. below~~ surface Date Sept. 1951

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

Sources of water: Principal Gravel ; Others _____

Production data: Date _____

Static depth to water _____ Measuring point _____
Pumping level _____ at _____ 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 CK 8-10

Sample range 0-40 No. spls. 8 No. dupls. & Cond. 8 9d

Spls. prepared by Berk Washed range _____ by _____

Driller's log and cond. _____

Insoluble residues: Prepared by _____ Studied by _____ Strip log _____

Microscopic study _____ strip log By

Gen. log _____ Correl. by 6/2/52