field located by S. L.	enker	
' Akron Quad	TOWA GEOLOGICAL SURVEY	W-1308
	Cooperation with U. S. Geologica	1 Survey
48W-31 COCO	RECORD OF WELL	والمراون الموال المراون
Location:	(NE)	
Town: AKRON	(S.W.):County Plym	nou th
The second secon	E. W. P. A. W. S. W.	Twp
	sec. 3/ T 93 No. R. 48 W. Port/	and mp
Well name and number	TOWN Well #3.	15+ & 50Uth
Owner	Address	and the state of t
(D)	Address	
Tenant	Address	
Contractor / 31/78	Address	0 - 4 -
	Western	<u> </u>
Drillers		
Drilling dates Dec	1910 - Feb. 8, 1911	
Well data:	Topo L	C.I. = 20'
Elevations: Drilling		
	and the second s	
Fump base	above ground level	
Acres de la companya		
Dotermined by		
The second second		
Topographic position		
Total depth: Reported	feet, Measured	. 5 7 fee
1		
Drilling method		
Hole and casing data	GRAVEL Pack	16 hole
	and the second s	
15 of 16 scre	en 18-inch slot	
And the second of the second o	above	Date
Original depth to water	ft. below	Date
	water levelft.; Source	of data
	man to the state of the state o	· · · · · · · · · · · · · · · · · · ·
		New York
Sources of water: Pri	ncipal	; Others

Production data:		Date						
Static depth to water	35.5	Measuring	Measuring point					
Pumping level	38	at3	00 gepeme	reod Strumsness				
	43	8	75 test	pumps.				
	Et new@	1 689 1317	Testan on Africal	Dade				
								
Specific capacity	96-120 g.p.	m. per ft. drawd	own; Temperature	53.5°F.				
Pump data; Type pump_ Cylinder or bowls:	Turbine Dia.	Column Dia Length	Lengtl Suction pipe	n				
Power								
Estimated rate of pr	, ,							
Use of water				· ·				
	'AW	TER ANALYSES (in	parts per million)				
Date samples <u>Fe</u>	68,1991	· · · · · · · · · · · · · · · · · · ·						
Sampled by E.	J. Marzec		·					
Total solids	534							
Insoluble matter	9.5							
Alkalinity (Meo)	280.0							
Alkalinity (Phn)	<u> </u>		,	Part of Photos Sergel Conference				
•	7.3							
all the second s	1.0							
-	27.8							
	115.	-						
Magnesium	33:3			•				
	0.0							
	0.00							
Nitrate	20.0							
Fluoride	trace	*						
- -	36.0		•					
Sulfate	119.3							
Bicarbonate	341.6			•				
Hardness (ppm)	726			•				
	24.9							
Remarks								
Laboratory data:		Sa	mple storage locati	on WAP-5				
Sample range	-55 No.	snls.	Mos dunlss & conds	3 2000				
Spls. prepared by Sur								
Driller's log and cond			_					
Insoluble residues:				log -				
Microscopic study								
Gen• log		Correl. b	y 3-14					

Measuring point to the party of the second to the second t

Date	Depth to water	Altitude	Remarks	
		·		
, , , , , , , , , , , , , , , , , , , 		P LT-4 (LT-ENGINE	of species and series he	Tooday of 1100d
	Miles II	AAR FO	(01)	p data Typo gavp
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	(act it in ata	REMARKS	A RETAIN	
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n armea	FIII WALL	pearing	giever	belo
		 		ant los
				tle matter
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				Gene log

LAYNE-WESTERN COMPANY

WATER SUPPLY CONTRACTORS

WELL WATER SYSTEMS AND PUMP EQUIPMENT FOR MUNICIPALITIES INDUSTRIES RAILROADS MINES AND IRRIGATION

Affiliated with LAYNE & BOWLER, INC. LAYNE SCREEN AND LAYNE PUMPS 807 World-Herald Building OMAHA, NEBR.

Jecember 12, 1940

FACTORIES: MEMPHIS, TENN. HOUSTON, TEXAS LOS ANGELES, CALIF. BRANCHES AND REPRESENTATIVES

THROUGHOUT THE COUNTRY

Dr. H. G. Lershey Assistant Ltate Geologist Towa Jity, Iowa

Dear Dr. Hershey: Subject: Akron, Lowa

The well at Akron, Lowa, has just been completed to a depth of 55'. They asked that we stop the well at this depth although we were not through the water bearing gravel. - The well tested out at 96 gallons per foot of drawdown, had a static level of approximately 32', and was pumped continuously on test at 875 GPM with a 91 drawdown. They are installing a 300 GPM pump.

Samples of this formation were saved and have sither been sent to you by this time or will be sent within the next day or two.

Yours very truly,

.. .. Prooks

RWB: AI

IOWA GEOLOGICAL SURVEY Water Well Data Sheet

Town A	Kron					Coi	unty_1	14mou	<u>+4 </u>	. 93 N.,	R.48 W.
Name										ئ ,Se	
Contract	or /a	June	Wee	tern	Dr				Use		
Construc		,						1940	Drill Depth		
Topog				· -	Curb Elev.					Total Depth	55
Final Static Level Depth to	abo be cui	low Pun rb Lev	rel		Draw down suction	gpm	Calc.	Time pumped g/ft. own	Prin. Prod.	Date_	
Water le	vels a	nd pum	oing :	tests	on vari	ious ho	rizons	during d	rilling		
Depth Range	Stat.	Pump Level	Draw	C120000	Tomp.	Produ horiz	cing	Produc format	ing	Format cased	
											-
											·····
Sample			,	***************************************	Lab	oratory	Numbe		Tumber		
range		55			500	n merte	_sampl	es_(> 1	aplicat	ces	ond. 30
LogNo, C	ond			В	oxed		Ra	nge		Date	
Remarks											
Microsco	onic					Strip	Gen	. Blu	ie	Samples	
Study Re	nge					Log	Log	Pr i	int	Washed	
Insol.Re						Strip Log	Gen Lon		ol.Res. epared		

December 13, 1940 Mr. R. W. Brooks Layne-Western Company 807 World-Herald Building Omaha, Nebraska Dear Mr. Brooks: Thank you for your letter of December 12 regarding the well at Akron. We are very glad to have the data and will look forward to receiving the samples. The specific capacity of 96 gallons per foot of drawdown is one of the largest that has been reported to us and the town of Akron is extremely fortunate in having such a well. Very truly yours, .i. G. Hershey HGH: N

Pump Installation Approved - Yes

Cuttings Preserved - Yes

Where - Geological Survey

Information by E. J. M.

The original hole was 56" in diameter at the ground and 52" in diameter at 57°. The screen was welded to the casing, and 18 feet of small pea gravel, heavily chlorinated, was placed in the well. The remaining annular space is filled with a puddled clay. The pump base is 2° above the surrounding ground level.

E. J. Marzec

Public Health Engineer

February 17, 1941

A. H. Wisters, Director Division of Public Health Engineering Iowa State Department of Health Des Moines, Iowa

Dear Mr. Wieters:

Attached is data concerning the Akron well. No record of the log was on file, but cuttings were to be submitted to the Geological Survey.

Very truly yours,

Ef Mayer

E. J. Marzec

Public Health Engineer Health District No. I

Le Mars, Iowa

ejm/ns cc-H. G. Hershey Iowa Geological Survey

GROUND WATER

Town - Akron

County - Plymouth

Date - February 8, 1941

Well No. - 3

Active - Yes

Location -

Street - 1st & South

Sec. 31, T 93 N. R. 48 W

Lot - 6

Block - 42

Twp. - Portland

Ownership - Town of Akron

Date Installed - 1941

Contractor - Layne Western

Address - Omaha, Nebraska

Construction Employed - Gravel pack

Curb Elevation - 1155.2

Reference - Sta. 9 \$\display 00 on Highway \$5
Road improvement finished 1940

Type of Construction - Gravel pack

Depth - 57'

Diameter - 168

Casing

Material - Armco Steel

Condition - New

Screen

Material - Armco Steel

Length - 15

Diameter - 16"

Slot opening - 1/8 in. (?)

Well Sealed - Yes

How - Into pump base

Approved - Tes

Well Vented - No

Type of Pump - Turbine

Make - Layne Bowler

Lubricated - 011

Capacity - 300 gpm.

Depth to Cylinder - No data

Tail Pipe - No data

Pump Control - Automatic

Static Level - 35.5

Pumping Level - 38'

Drawdown - 2.5

Time - Immediate at 300 gpm.

Specific Tield - 120 gal./ft. of drawdown

Rate of Recovery - Immediate

Temp.

Water - 53.50 F

Air - 420 F

Drawdown gamge installed - Yes

Topographical Position of Well - In bottom land

Well Site Investigated - Tes

Approved - Yes, if defects were taken care of.

Well Construction Reviewed - Yes

Approved - Yes

February 18, 1941 Mr. E. J. Marzec Public Health Engineer Health District No. 1 Le Mars, Iowa Dear Mr. Marzec: Thank you very much for the copy of your report on the Akron well which has just been received. The data contained in the report will be very useful and I appreciate your courtesy in sending it to us. Very truly yours, H. G. Hershey HGH:N