IOWA GEOLOGICAL SURVEY	2241
In Cooperation with U. S. Geologi	
RECORD OF WELL	
Location: (NE)	
Town: Louden (NE): County Ce	dar 4
NELANEVA NWLAsec. 2 T 81 No.R. 1 W.Spri	ny field Twp.
Well name and number Chicago SNW. TRY.	
Owner Chicago and Notthweiter RY. Addres	S
Tenant Addres	s i
	······································
Contractor Laune Wester Addres	
Drillers Sagad and Hadanes	- umes
- senega ana pound	and the second s
Drilling dates Feb 1946	
Nell data: Elevations: Drilling curb feet; Land surfa	ce 7/8 feet
	······································
	1
Determined by S. E. Manue	
Topographic position	nd
Total depth: Reported 30.8 feet, Measured	and a second second second second second second second second second
	a second and the second s
Drilling methodable tool	
Hole and casing data	and the second
	1
and a second	
Driginal depth to water ft. below	
Original elevation of water levelft.; Source	e of data
Soumoon of initiaties Defendents	Provide the second s
Sources of water: Principal	; Others
	the second second second second

Production data:	Date	чи. 			
Static depth to water	Mensuring noint				
Pumping level					
	ob <u>robititi</u>	Lander he diges i	Sate:		
and the second			· · · · · · · · · · · · · · · · · · ·		
		- torse			
Specific capacityg.p	omo per ft. drawd	own; Temperature	•F•		
Pump data: Type pump Cylinder or bowls: Dia.	Column Dia	Length	1		
Cylinder or bowls: Dia.	Length	Suction pipe			
Power	Airline				
Estimated rate of production:		_g.p.m. for	hrs. a day		
Use of water					
	ATER ANALYSES (in	parts per million)			
Date samples					
Sampled by					
Total solids	·				
Insoluble matter		· · · ·	1		
Alkalinity (Meo)					
Alkalinity (Phn)		·			
рН					
	W. Children and and and and and and and and and an				
Alkali as sodium					
Calcium					
Magnesium	· · · · · · · · · · · · · · · · · · ·				
Iron (unfiltered)					
langanese	Table of the second				
Nitrate					
Fluoride	· · · · · · · · · · · · · · · · · · ·	A			
Chloride	· · · · · · · · · · · · · · · · · · ·				
Sulfate					
Bicarbonate	Self 1 States of States		A dependent for a specific de la seconda d		
Hardness (ppm)					
Hardness (gpg)					
Remarks					
Laboratory data:	San	ple storage locatio	on		
Sample range 75-308 No.	spls. <u>S</u> N	lo. dupls. & cond.	5.F.P.		
Spls. prepared by <u>P.J.H</u> . Was Driller's log and cond.	and the second second		1		
Insoluble residues: Prepared by Microscopic study July 29, 19			log		
	A Second Deep de la contra de la	R. Screven			

5 Iven Drilled For CO. WN.4-2 W# 2241 at Lowden, lowa by Loyne Western Co. Ames, lowa Feb. 1946 Drillers Log Clay Neat Cement STATI 25 Sandy Blue Clay 36 79 16" O.D. Steel Casing Blue Clay Samples 90' 12"1.D. 45 16. TEC Steel STAFTAT Casing 79 Limestone 125 Fal 235-255 Limestone (Porous with some clay 308' and shale ~ streaks) 210 Brown Limestone 255 Well tested @ 190 g.p.m. with pumping level of Gray 155' after acidizina Limestone with 1000 gal. of acid. 305 Shale 308

WELL LOGS ON C. & N. W. R.R., AT LOWDEN, IOWA

WELL NO. 2

Yellow Clay
Blue Clay
Clay & Rock
Blue & Yellow Clay
Gravel & Hard Rock
Hard Rock

WELL NO. 4

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WELL NO. 3			
0 -110	Blue	Clay	
110-128	Soft	White	Limestone
128-172	Limes	stone	

Well No. 2, was completed in March, 1910, static water level was 38'. Water level was lowered to 70', pumping 110 GPM. 12" pipe extends to within 18' of the bottom. 20' of 10" pipe was drilled with 1/2" holes and installed for screen.

Well No. 4, was completed August, 1912, and was tested at 100 GPM. No static water level or drawdown figures are available. Apparently 12" pipe was installed to the top of the limestone at 81', however this information is not absolutely certain.

Well No. 3, was completed September, 1911, and was tested at 83 GPM. No static water level or drawdown was given. Apparently the original depth, of this well was 128' and the above test firures apply to this depth. In 1912, it was drilled to a depth of 172' and another test was conducted of 18 hours duration, during which time the well was pumped at a capacity of 106 GPM. No static water level or drawdown figures are given. The well was originally constructed with 12" pipe placed to 128', the bottom 12" perforated for screen. It appears that no additional casing was installed when the well was drilled deeper.

Forecast of

Generalized Geologic Section at Lowden

Thick.	From	To
100±	0	100±
200 <u>+</u>	100	300
230	300	530
		780
		•
80	780	860
50	860	910
		•
320	910	1230
55	1230	1285
10	1285	1295
	100± 200± 230 250 80 50 320 55	100± 0 200± 100 230 300 250 530 80 780 50 860 320 910 55 1230

