DETAILS OF WELL CONSTRUCTION HUBBARD ICE & FUEL CO. June 11, 1956 Layne Western Co. Ames, Lowa 69 90 S.W.L. CASING (12" STEEL CASING 995 700' 1077-9" 1515 NEAT CEMENT ZIZ" OPEN HOLE 610" OPEN HOLE

## Well Information for Layne-Western Co.

This sheet is to be filled in and mailed to office upon completion of well

1.	Hubbard Ice & Fuel Name of Job	THE STATE AND ARE THE STATE OF THE STATE AND THE STATE STATE STATE AND ARE ARE ARE AND ARE ARE ARE ARE ARE	6/19/56 Date
2.	Cedar Rapids	Iowa	240
۵.	City	State	and the control of th
3.	Well No. Ice plant	Jack Haney Driller's Name	
4.	Well location: Under sidewalk outsi	de of ice plant nent Land Mark so Well can be Accurately Located	
5.	Work began 4/16/56; work complete	eted 6/11/56 . Number of v	vorking days
6.	Diameter, length and type of material left in		, so s s s s s s s s s s s s s s s s s s
7.	feet of scree	n made of I	
8.	692 feet of 12 inch inside casing ma	ade of Steel with Welded  Armeo, Std. Pipe, Concrete Riveted, Wel	
9.	69 feet of 16 inch outside casing m	ade of Steel with Welded  Armoo, Std. Pipe Riveted, Wel	
10.	821 x 10" street well led in well. Isize	r 995° to 1077°	
11.	Test of well. Did you use test or permanent	pump? <u>permanent</u> 10 <sup>n</sup> RK Size of Bo	HC 5 owl Stages
12.	Pump No. ; geared head No	_; ratio; r. p. m; pv	ılley diam
13.	Power used 10; horse power 110; voltage	ge 1750; r. p. m; pulley diam.	; r. p. m
14.	Size of orfice5 inch, by6 in	nch. Orifice tube reading in	nches.
15.	Pumping test—measurements from ground le	vel:	
	Time G. P. M.	Static Drawdown	Pumping Level
	6 hr 500	90125	115
	from sidwalk		The same are and the same and
	4		and the other first own days for other was too
		and any over the first and the last date that	and high ever there are the other template reads
		non note than non-from from that that the second second that the second	The contract of the contract o
			table balls substantial, but they also sale your age
		and the time face face and the face face and the	
16.	Recovery in 5 minutes <u>static</u>	, in 30 minutesX	
17.	Customer's pump No was ins	talled in this well by	the second secon

DIG JUN SON	bottom of well	l?No Thickness _ x inches, materia				
Was well u	ider-reamed?	X FromX feet to feet.				
		From feet to feet.				
		From feet to feet.				
If all gavoon	haaale tag oog	at bottom, state how it was spaced.				
			foot to foo			
		_ feet; from feet to feet; from				
_		d level to top of plug) feet				
Was cement	placed around	or between any of the casings? 5! at bottor	of 12"			
If so, state	If so, state where, how much and method used.					
date your child blind have used been more finite while have	may plus ones only and filter time yets place you such your won		ig and and this saw the last the term and the last the term and the last th			
	from ground le					
Feet	Feet	Formation	FOR SKETCH			
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Remarks:						
purp your wife gare word sales asks first first area.						

## LOG OF WELL

## HUBBARD ICE & FUEL

## Gedar Rapids, Iowa

Well under sidewalk at ice house deepened from 419 to 1515.
All measurements taken from sidewalk.

Drill Began Finis	hed hed	Jack Han 16/56 6/11/56	ey Layne-Western Company
448000505050555555555555555555555555555	ettes  total  price  price  price  della	494933778923445555 666667777888	Mixed shale and limestone, medium Mixed shale, medium Mixed shale, medium Mixed lime and shale, hard Dark gray shale, medium Mixed shale & limestone, medium Gray shale streaks, limestone, medium Limestone and shale, medium Brown shale streaks, limestone, medium Mixed limestone, medium Mixed limestone & shale, hard Hixed shale streak, limestone, hard Gray limestone, medium Mixed limestone, medium Brown limestone, medium Brown limestone, medium Brown limestone, hard Mixed limestone, hard Mixed shale streaks, limestone, medium - W.L. 94° Mixed shale streaks, limestone, medium Gray limestone, hard Mixed shale streaks, limestone, medium Gray limestone, hard Mixed limestone, hard
mar to	4004	270 CD 479	Gray shale; medium
913	(d)	920	Gray shale, hard
All and any	dist som	975 980	Gray limestone, hard - W.L. 98' Gray limestone & shale, medium
		1025	White sand, medium
1025		1030	White shale streak, sand, medium - blue shale
	dige	1035	Mixed sand & limestone, medium - 100' W.L.
1035		1075	Gray shale streaks, limestone, hard
1075	ditte	1115	Gray Limestone, hard
1115	ARTS.	1110	Gray sandy lime, hard
1130 1140	4000	1150	Gray limestone, hard Mixed limestone, hard
1150			Mixed shale streaks, limestone, medium
		1175	Gray limestone and sand, medium
1175	ám	1105	Gray limestone, hard - W.L. 95'

	11.05	2050	1205	Gray sandy limestone, hard
	1205	99	1220	Gray shale streaks, limestone, hard - W.L. 951
	1550	diss	1275	Gray limestone, redium
	1275	igopa	1290	Gray limestone, hard
	1290	(0)000	1310	Gray sandy limestone, hard - crevice at 1304
	1310	3899	1350	Gray fine limestone, hard - W.L. 951
	1350	depa	1355	Gray sandy limestone, hard - from side walk
	1350 1355	5000	1380	Gray limestone, hard
	1380	dist	1305	Gray limestone, medium
	1385	4000	1415	Brown limestone, medium
~	1415	\$100	1430	White sand, soft
	1430	800h	1505	White sand, medium
	1505	dina	1512	Gray sand and limestone, medium
	1512	970	1515	Gray limestone - T.D.
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