

Well Information - Drift Wells

Layne-Western Company, Inc.

PROFESSIONAL SERVICES FOR WATER SYSTEMS

705 So. Duff Ave. • Ames, Iowa 50010 • Phone: 515/232-3563

Lake Panorama
PWSID# 390030/
CJT

Name of Job Lake Panorama Association Date 2/10/92

City or Village Panora State Iowa

Well No.: 3 Drillers: D. Osterhout & D. Thomas

Well Location: _____ ft. (S.E. $\frac{1}{4}$) and _____ ft. (N.E. $\frac{1}{4}$) of the S.E. corner of:

Section 34, Twp. 80 (N), Range 31 (W) Guthrie County.

Otherwise located as _____

Work Began: 11/91 Work Completed: 2/14/92 Well Depth: 190'

All measurements made from existing ground level at time well was drilled.

Casing Record:

Amount	Dia.	Wt. or Thickness	Material
<u>150'</u>	<u>12"</u>	<u>.375</u>	<u>steel</u> with <u>4</u> joints from <u>0</u> to <u>150'</u>
<u>122'</u>	<u>24"</u>	<u>.495</u>	<u>steel</u> with <u>4</u> joints from <u>0</u> to <u>122'</u>

Screen Record: Type s.s. wire wrap

Amount	Dia.	Opening	Material
<u>40'</u>	<u>12"</u>		<u>s.s.</u> with <u>1</u> joints from <u>150'</u> to <u>190'</u>
			with _____ joints from _____ to _____

Type of Seal at Bottom s.s. plate

Hole Record:

36 inch from 0 to 122'

23 inch from 122' to 190'

Gravel Pack Record:

Amount	Size	Source	From	To
<u>12 tons</u>	<u>No 2</u>	<u>Northern Gravel Company</u>	<u>110'</u>	<u>190'</u>

Cementing Record: Cemented 24" casing in with 200 sacks of cement

Backfill Record: Clay seal 110' to 105', sand and bentonite backfill 105' to
20', concrete grout 20' to 8'

SEE OTHER SIDE

WELL LOG

Feet		Description
0	to 4	top soil
4	to 13	brown clay
13	to 17	gray clay
17	to 20	light brown clay
20	to 28	gray clay
28	to 57	light brown sandy clay
57	to 96	sticky gray sandy clay
96	to 105	gray sandy clay
105	to 110	sandstone
110	to 121	clay
121	to 123	sandstone
123	to 143	coarse sand and gravel with sandstone
143	to 144	shale
144	to 149	sandstone
149	to 152	sandstone with shale
152	to 155	sandstone
155	to 158	shale
158	to 162	sandstone with shale streaks
162	to 190	fine to medium sand and gravel
190	to 191	blue shale
	to	
	to	
	to	

Well Test Data: Static Level 120'; pumping level 151' after 24 hours pumping at 201 g.p.m.

Length of test 24 hrs. See Well Test Data Sheet Dated 2/13/92

REMARKS: . . .
