

#29184

Shawver

AUG 31 1988

GEOLOGICAL SURVEY

Well Company, Inc.BOX 266 FREDERICKSBURG, IOWA • 50630
319/237-5341

LOG OF WELL

WAPSIE VALLEY CREAMERY (Independence)

DRILLED: April 19, 1988-May 31, 1988

DRILLERS: Henry Dawson/Jim Bunting

LOCATION: Buchanan County, Washington Twp., Sec. 34 SW $\frac{1}{4}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$ NW $\frac{1}{4}$

0'	to	2'	Topsoil
2'	to	60'	Sand and gravel
60'	to	65'	Limerock and gravel
65'	to	69'	Limerock
69'	to	147'	Gray limerock
147'	to	210'	Light gray limerock
210'	to	270'	Light brown limerock
270'	to	275'	Gray limerock
275'	to	280'	Shale

The well is cased to 68'7" with 18" outside diameter casing. The well is also cased to 102'7" with 14" outside diameter casing. The annular space between the 18" and 14" was pressure grouted with neat cement grout. Five sacks of Holeplug Bentonite was used to seal a crevice at 85'. Six sacks of Holeplug Bentonite was used to seal the end of the casing prior to grouting. A 13" open, uncased hole extends from 100' to 280'.

The static water level is 35'3" and lowers to 136'2" at 452 gallons/minute.

The recommended pump setting is 160'.

Tag 404

Bin 8C

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WAPSIE VALLEY CREAMERY TEST PUMPING

TIME	WATER LEVEL IN WELL	GALLONS/MINUTE
MAY 19, 1988		
4:50 P.M.	35'3"	305
4:52	72'8"	305
4:55	80	305
4:57	80'9"	305
4:58	80'10"	305
4:59	81'11"	305
5:00	81'4"	305
5:01	81'5"	305
5:02	81'7"	305
5:03	82'3"	305
5:04	82'4"	305
5:05	82'4"	305
5:10	82'4"	305
5:15	84'2"	305
5:20	84'10"	305
5:25	84'10"	305
5:30	84'10"	305
5:45	84'10"	305
6:00	85'5"	305
6:00		402
6:05	104'	402
6:10	104'3"	400
6:15	104'9"	400
6:20	104'6"	400
7:00		503
7:10	Pump air	
7:10		480
7:15		480
7:20		457
7:25	125'	457
7:30	125'	457
7:35	125'	457
7:40	125'	457
7:45	125'	457
MAY 20, 1988		
9:10 A.M.	34'	452
9:12	100	
9:14	105	
9:16	106'4"	
9:18	108'6"	
9:20	109'9"	
9:22	111'4"	
9:24	112'3"	452
9:26	113'2"	

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Wapsie Valley Creamery

TIME	WATER LEVEL IN WELL	GALLONS/MINUTE
9:28	114'3"	452
9:30	114'9"	452
9:35	114'6"	452
9:40	115'7"	452
9:45	117'5"	452
9:50	118'3"	452
9:55	119'3"	452
10:00	120'3"	452
10:15	124'6"	452
10:30	125	452
10:45	135'2"	452
11:00	136'	452
11:15	136'2"	452
11:30	136'2"	452
11:45	136'2"	452
12:00 P.M.	136'2"	448
12:30	136'2"	448
1:00	135'8"	452
2:00	136'2"	452
3:00	136'2"	452
MAY 31, 1988		
10:35 A.M.	36'	
10:37	98'	461
10:30	103'3"	461
10:42	108'11"	473
10:45	115'	473
10:48	115'3"	473
10:50	114'9"	465
10:55	115'2"	465
11:00	116'9"	465
11:05	117'	465
11:10	117'9"	465
11:15	117'11"	465
11:20	118'3"	465
11:25	118'9"	465
11:30	118'9"	465
11:45	120'6"	457
12:10 P.M.	123'9"	457
12:25	125'	457
12:45	125'7"	457
1:00	125'11"	457
1:00	412	
1:02	109'	412
1:05	109	412
1:20	108'11"	412
1:30	108'11"	412