

IOWA  
STATE DEPARTMENT OF HEALTH  
DIVISION OF PUBLIC HEALTH ENGINEERING  
DES MOINES

Town Sidney, Iowa

Date September 24, 1946

Report on Public Water Supply

By R. J. Schliokolman

Approved

*J. Houser*  
Acting Director  
Division of Public Health Engineering

PURPOSE OF SURVEY: Routine.

DATE OF PREVIOUS SURVEY: October 25, 1945.

INTERVIEWS: Mr. Hod Stiles, Councilman, and Mr. George Mosley, Operator.

CHANGES OR IMPROVEMENTS SINCE PREVIOUS SURVEY:

1. Due to increased water consumption in the town and the demands of the annual rodeo, the town has had plans and specifications approved for additions to supplement the present water supply. These changes provide for additional gravel pack wells at the north spring.

2. As an emergency method of augmenting the supply for the rodeo held during the latter part of August, test holes were drilled at both the north and south spring locations. No suitable sand formations were found at the north spring but what appeared to be an excellent sand formation was found approximately 150 feet northwest of the present south spring. The Lane Western Well Company was secured to construct a gravel packed well at this location.

The location of the well was not approved by this department but the location would have been satisfactory if a bulldozer had not been used to remove several feet of earth in the vicinity of the well. A cut, approximately ten feet deep at the uphill side and approximately four feet deep at the location of the well, was made to decrease the depth necessary to secure water at this location. The town officials had attempted to make a saving in the construction of the well as an estimate of \$35.00 a foot was made for the construction of the well. The cost of the construction work by the bulldozer amounted to \$150.00.

A gravel-pack well with a capacity of only 15 gallons per minute on test pumping was constructed. The well was provided with a temporary pump which was furnished by the well company but no connection to the system was ever made. Mr. Stiles reported that the town officials had made no decision as to whether the well would be completed and connected to the system. The well was constructed with a 56 inch outside diameter temporary casing and an 18 inch permanent casing of riveted piping. The well was constructed with ten feet of Armsco No. 4 shutter screen. The log of the soil formation is as follows:

Depth in feet	Formation
0 - 2	Black soil
2 - 9	Silty sand
9 - 13	First sand
13 - 16	Yellow clay
16 - 19	Sand, gravel & boulders