

The following form may be used by the Review Agency/Commission for comments in response to the request for clearance from the proposed Public Water Supply Loan Fund Project.

_____	Army Corps of Engineers
_____	Kansas Biological Survey
_____	State Conservation Commission
_____	Kansas Corporation Commission
_____	Division of Water Resources/Kansas Department of Agriculture
<u>X</u> _____	Kansas Geological Survey
_____	Kansas State Historical Society, State Historic Preservation Office
_____	Kansas Water Office
_____	Kansas Department of Wildlife & Parks
_____	US Dept of Agriculture - Natural Resources Conservation Service
_____	Kansas Department of Health and Environment
_____	US Dept of the Interior - Fish and Wildlife Service

Agency Review Comments: (to be completed by reviewing agency and returned to applicant contact person at name and address shown below)

Comments: Any short-term adverse effects of construction should be offset by the improvements to the ^{water} quality and the operation of the water-supply system.
I recommend that a well-head protection plan be implemented to protect the wells from nitrate contamination of the ground water.

Recommended Action: (to be completed by the reviewing agency and returned to applicant contact person at name and address shown below.)

<u>✓</u> _____	Clearance of project should be granted
_____	Clearance of project should not be granted
_____	Clearance of project should be delayed until the issues or questions have been clarified.
_____	Clearance of project should not be delayed, by the applicant (in the application) address or clarify the questions or concerns indicated above.)

Donald W. Heltemire
Reviewer's Name

KS Geol. Survey
Division/Agency/Commission

7/28/03
Date

Project Title: Public Water Supply Loan Fund Application

Applicant: City of Conway Springs, Kansas

Contact Person: A. E. Reiss, P.E., City Engineer

Address: 2160 West 21st Street North

City, State: Wichita, KS Zip: 67203 Phone: (316)- 832- - 0213



REISS & GOODNESS ENGINEERS

2160 WEST 21ST STREET - WICHITA, KANSAS 67203-2181 (316) 832-0213

July 3, 2003

Kansas Geological Survey
University of Kansas
1930 Constant Avenue - Campus West
Lawrence, KS 666047

RE: City of Conway Springs, Kansas
De-Nitrification Treatment Plant
and Proposed Water Well

Gentlemen:

The City of Conway Springs has applied to the Kansas Department of Health & Environment for a loan from the Kansas Public Water Supply Loan Fund in the amount of \$1,400,000 for water line improvements, a water well and the de-nitrification plant. Your agency has already commented on the water line improvements project.

The City of Conway Springs is under an Administrative Order to reduce the nitrate level in the existing water supply. The City has had to provide bottled water for those individuals listed in the "danger" category due to the nitrate level in the water.

The proposed treatment plant project is to construct an ion exchange method plant adjacent to well no. 13. The treated water will be blended with other water prior to entering the distribution system. The proposed de-nitrification system will utilize a series of small tanks mounted on a carousel-type frame that rotates. As each container passes a specific section in the carousel, the backwash and recharge operations will be automatically completed for the next cycle of use. The unit will be housed in a structure that will be built as part of this project which will also include all the automatic controls, chemical handling, piping and appurtenances for complete operation of the plant.

The proposed treatment plant project is located in the northeast quarter of Section 5, T30 and 31 S, Range 3 West, Sumner County, Kansas.

The City will also be replacing water well no. 17 which has a golf ball sized hole in the well screen. This is allowing gravel and sand strata to infiltrate the well and water system. The casing size is not large enough to allow a new screen to be inserted into the casing. It is proposed to move approximately 50' southwest of the existing well and drill and develop a new well, complete. The new well will be tied into the existing piping, telemetry and electrical systems.

The location of this well is in the northeast quarter of Section 34, T30S, R4W, Sumner County, Kansas.

Both of these proposed locations and their vicinity to the City of Conway Springs is shown on the enclosed USGS map.

Page Two
Kansas Geological Survey
July 3, 2003

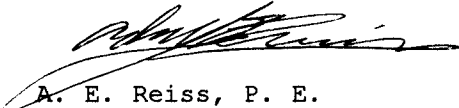
No persons will be displaced or relocated due to the construction of this project.

We would appreciate your review of the project description and location, and receipt of any comments you may have within thirty (30) days. A project review form is enclosed for your use.

If you have any questions, please feel free to contact our office.

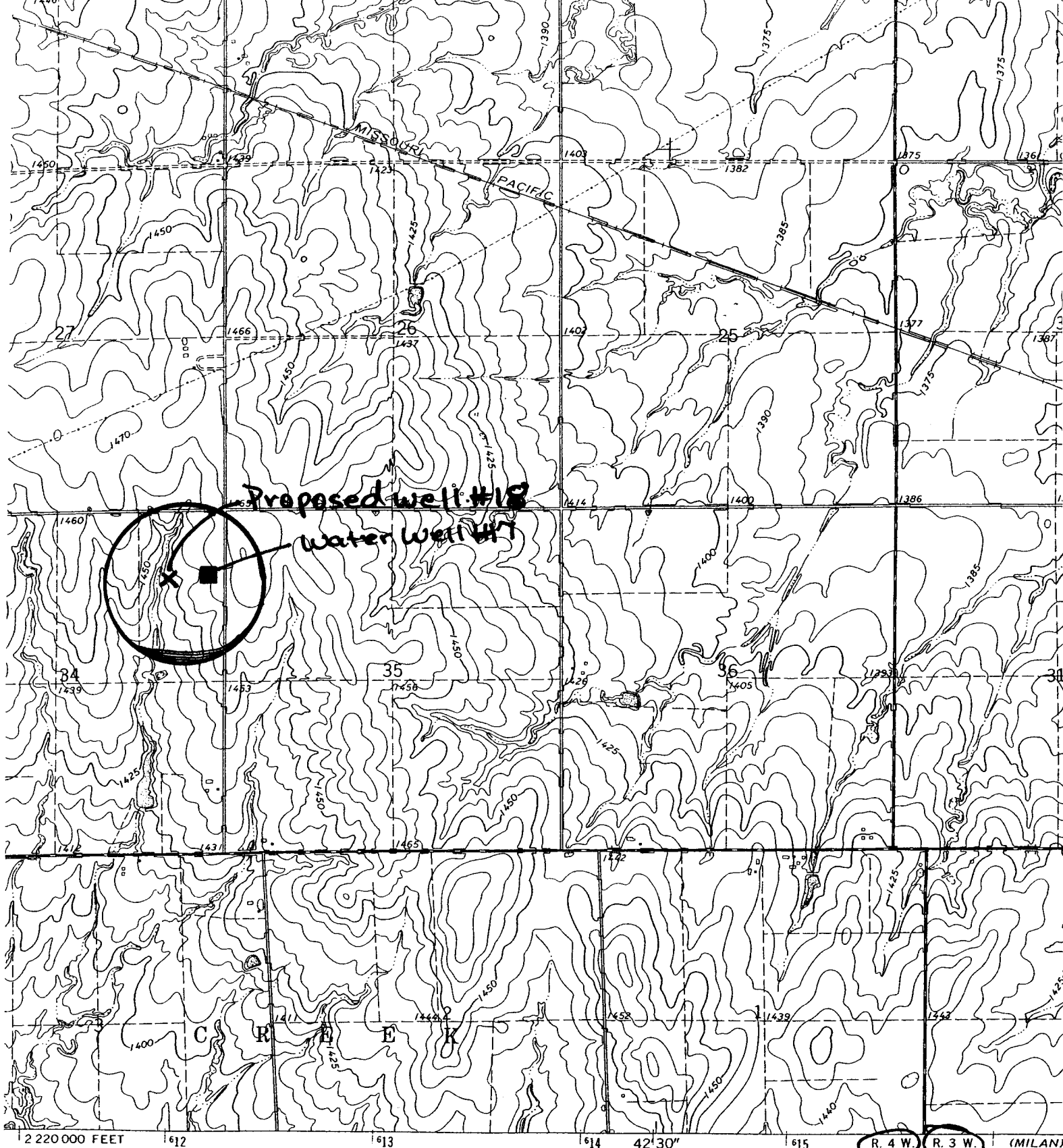
Sincerely,

REISS & GOODNESS ENGINEERS



A. E. Reiss, P. E.

AER/rms
Enc.



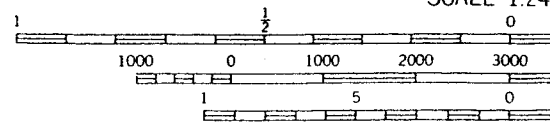
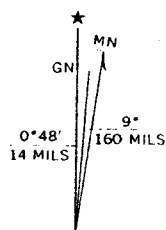
1, and published by the Geological Survey
and USC&GS

otogrammetric methods from aerial
1969. Field checked 1971

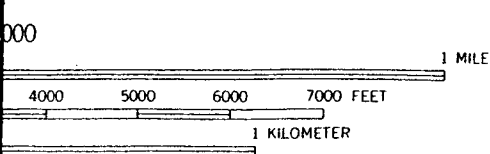
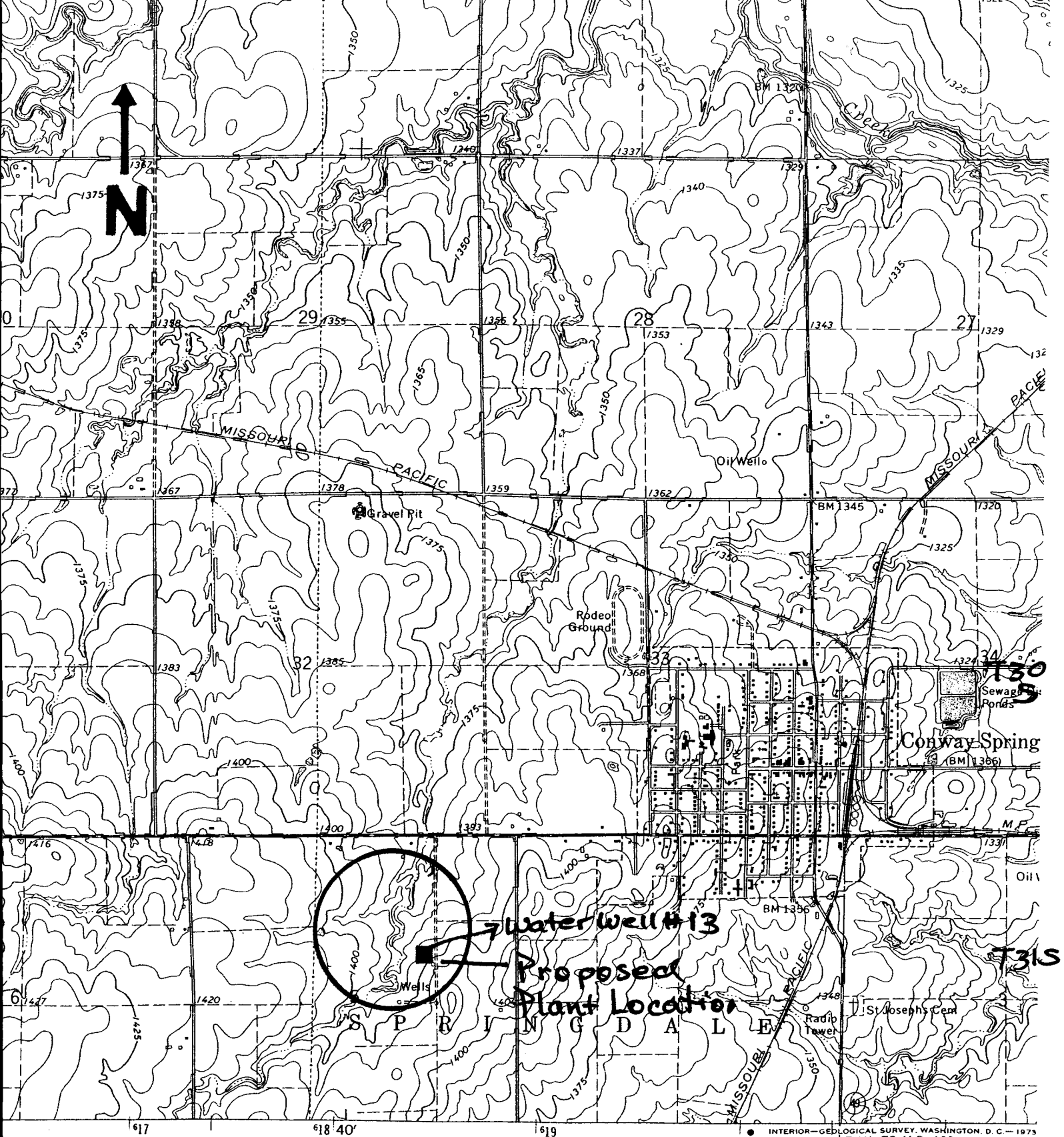
on. 1927 North American datum
based on Kansas coordinate system, south zone
rsal Transverse Mercator grid ticks,
blue

nes indicate selected fence and field lines where
aerial photographs. This information is unchecked

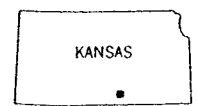
UTM GRID AND 1971 MAGNETIC NORTH



CONTOUR INTERVAL
DATUM IS MEAN S



Vertical 5 FEET
SEA LEVEL



INTERIOR-GEOLOGICAL SURVEY, WASHINGTON, D. C. - 1973
620,000m.E.
7 MI. TO U.S. 160

ROAD CLASSIFICATION

- Primary highway, hard surface
- Secondary highway, hard surface
- Light-duty road, hard improved surface
- Unimproved road
- Interstate Route
- U. S. Route
- State

CONWAY SPRINGS, KANSAS