

February 28, 2007

Alan Luttrell, PE
306 S. Main St.
Pratt, KS 67124

Dear Mr. Luttrell,

I have reviewed the proposed project for the city of Nickerson in which improvements are to be made to their waterline distribution system.

Based on the documents attached to your request, it does not appear that there are any potential geologic hazards worth noting that might impact this project.

The above discussion represents our best assessment based on the information that the Kansas Geological Survey has about this locality and/or proposed project at the time of this writing. Other geologic conditions, not discussed herein, or for which the Kansas Geological Survey has no knowledge, may affect the viability or safe operation of this facility or property. The information provided in this letter is from regional or countywide studies and should not be used as a substitute for detailed site characterization by a licensed geologist or engineer. It is the responsibility of the applicant to provide any required site characterizations.

If you have questions please do not hesitate to contact me at my office (785 – 864-2068).

Sincerely yours,



P. Allen Macfarlane

Water System Improvements

City of Nickerson

15 N. Nickerson St.

Nickerson, Kansas

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.

<u> </u>	Army Corps of Engineers
<u> </u>	Kansas Biological Survey
<u> </u>	State Conservation Commission
<u> </u>	Kansas Corporation Commission
<u> </u>	Division of Water Resources/Kansas Department of Agriculture
<u> X </u>	Kansas Geological Survey
<u> </u>	Kansas State Historical Society, State Historic Preservation Office
<u> </u>	Kansas Water Office
<u> </u>	Kansas Department of Wildlife & Parks
<u> </u>	US Dept. of Agriculture – Natural Resources Conservation Service
<u> </u>	Kansas Department of Health and Environment
<u> </u>	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: See attached

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

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

<u>Allen Markham</u>	<u>KGS</u>	<u>2/29/07</u>
Reviewer's Name	Division/Agency/Commission	Date

Project Title: Public Water Supply Loan Fund Application

Applicant: City of Nickerson, Kansas

Contact Person: Alan Luttrell, P.E., City Engineer

Address: 306 S. Main St.

City, State, Pratt, KS Zip 67124 Phone: 620-672-1112

EBH & Associates

Evans - Bierly - Hutchison & Associates, P.A.

306 S. Main
Pratt, Kansas 67124
(620) 672-1112
FAX (620) 672-1909

ENGINEERS • SURVEYORS

E-Mail: alanl@ebhengineering.com

February 20, 2007

Dr. William Harrison
Kansas Geological Survey
University of Kansas
1930 Constant Ave., Campus West
Lawrence, KS 66047

Re: City of Nickerson, Kansas
Kansas Public Water Supply Loan Fund
Waterline Improvements

Dear Sir,

The City of Nickerson, Kansas is preparing an application to the Kansas Department of Health and Environment for a loan from the Kansas Public Water Supply Loan Fund for a waterline improvement project. The Project Description, Site Map, Opinion of Probable Cost and Project Review Form are enclosed. The Project Areas are located in: Sec. 3, 4, 9, 10 Twp. 22 S Range 7 W, Reno County, Kansas. The North Water Well # 9 is approximately located at Latitude 38.17295° N, and Longitude 98.08854° W.; the Water Well #7 is approximately located at Latitude 38.15185° N, and Longitude 98.07995° W.

We would appreciate your review of the project description and location, and any comments you may have, within 20 days. A project review form is enclosed for your use.

Please return the Project Review Form to me at:

Alan Luttrell
306 S. Main St.,
Pratt, KS 67124.

Please call me at 620-672-1112 if you have any questions.

Sincerely,



Alan Luttrell, P.E.
EBH Engineers

encl.

PROJECT DESCRIPTION
WATERLINE IMPROVEMENTS
NICKERSON, KANSAS

This project consists of:

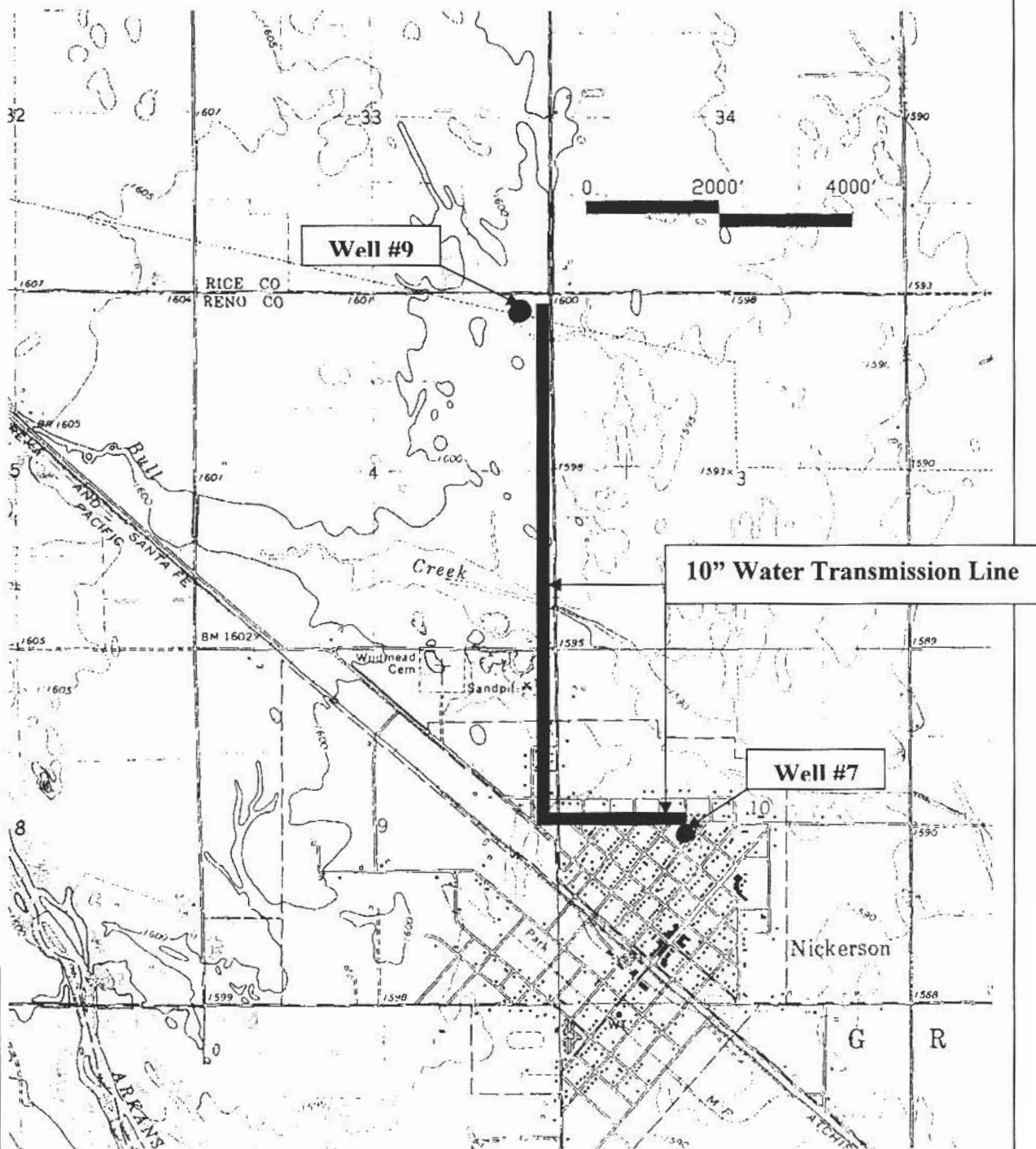
- installing electrical service to Well #9;
- installing telemetry system to Well #9;
- installing 10" water transmission line from Well #9 located approximately 1.5 miles north of the City of Nickerson to connect into the City's water distribution system at Well # 7.

See the attached drawing for the location of the proposed water improvements.

OPINION OF PROBABLE COST:

The Opinion of Probable Cost for implementing the recommended solution outlined above is **\$437,000.00**. The attached **Opinion of Probable Costs** presents a breakdown of these anticipated costs.

**WATERLINE IMPROVEMENTS
NICKERSON, KANSAS
SITE MAP**



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ENGINEERS • SURVEYORS

E-Mail: alanl@ebhengineering.com

OPINION OF PROBABLE COST
TRANSMISSION LINE FROM NEW WELL SITE TO TOWN
NICKERSON, KANSAS
January 11, 2007

Scope: Install electrical to new well site, a a telemetry system and 10" water transmission line from the new well located approximately 1.5 miles north of town and connect into the City's water distribution system at Well No. 7.

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENSION
1	10" PVC Pipe	9500	L.F.	\$ 20.00	\$ 190,000.00
2	10" Gate Valve	12	Each	\$ 1,200.00	\$ 14,400.00
3	Bore	800	L.F.	\$ 35.00	\$ 28,000.00
4	16" Bore & Encasement for 10"	70	L.F.	\$ 160.00	\$ 11,200.00
5	Connect To Existing Waterline	1	Each	\$ 1,200.00	\$ 1,200.00
6	Remove & Replace Paving	60	S.Y.	\$ 50.00	\$ 3,000.00
7	Remove & Replace Gravel Surfacing	200	L.F.	\$ 3.00	\$ 600.00
8	Seeding	7,500	L.F.	\$ 1.20	\$ 9,000.00
9	Telemetry	1	L.S.	\$ 30,000.00	\$ 30,000.00
10	Construction Staking	1	L.S.	\$ 3,600.00	\$ 3,600.00
11	Power to site	1	L.S.	\$ 18,000.00	\$ 18,000.00
12	Contingencies	1	L.S.	\$ 15,000.00	\$ 15,000.00
TOTAL CONSTRUCTION COST					\$ 324,000.00
Legal, Engineering, Construction Eng., Administration					\$ 113,000.00
TOTAL OPINION OF PROBABLE COST					\$ 437,000.00



EVANS, BIERLY, HUTCHISON & ASSOCIATES
PRATT, KANSAS