NEBRASKA WELL DRILLERS ASSOCIATION

GROUND WATER SEMINAR

JANUARY 20-21, 1966

Sponsored by

CONSERVATION AND SURVEY DIVISION

THE UNIVERSITY OF NEBRASKA CENTER

33rd and Holdrege
NEBRASKA WELL DRILLERS ASSOCIATION

Program of Seminar

THURSDAY, JANUARY 20, 1966

8:00 a.m. Registration

9:00 a.m. Introduction to Short Course .............. G. R. Svoboda
Hydrologist, Conservation and Survey Division, University of Nebraska
Outline the purpose of the course, what will be covered generally, and what reports, maps, and other material and information are available.

9:15 a.m. Interpretation and use of maps and reports

... F. A. Smith
Hydrologist, Conservation and Survey Division, University of Nebraska

... Philip A. Emery
Geologist, Water Resources Division, U.S. Geological Survey
Interpretation and specific use of each of the following: topographic maps, soil maps, ground-water and geologic maps. Explanation of the various types of reports that are available and their uses.

10:00 a.m. Coffee break

10:30 a.m. Interpretation and use of maps and reports, continued

12:00 noon Lunch

1:00 p.m. Well records and test drilling .......... V. H. Dreeszen
Assistant Director, Conservation and Survey Division, University of Nebraska
Log and well completion forms, sample description and data recording, rotary test drilling techniques, water testing, water level measurements, sieve analysis.

2:30 p.m. Coffee break

3:00 p.m. Well records and test drilling, continued

5:00 p.m. End of first day sessions

FRIDAY, JANUARY 21, 1966

8:00 a.m. Ground-water hydrology .................... E. C. Reed
Director, Conservation and Survey Division, University of Nebraska
Nebraska geologic formations and their relation to ground water, the occurrence and movement of ground water, ground-water replenishment and depletion, the properties of rocks that control the movement and storage of ground water (permeability and transmissibility), chemical and physical characteristics of water, definitions of ground-water terms, zone of aeration and saturation, the water table, relation of surface water to ground water.

9:30 a.m. Coffee break

10:00 a.m. Ground-water hydrology, continued

12:00 noon Lunch

1:00 p.m. Hydraulics of wells ....................... V. L. Souders
Hydrologist, Conservation and Survey Division, University of Nebraska
Basic principles governing the performance of wells, relation of drawdown to yield, relation of diameter to yield, relation of depth to yield, specific capacity of wells, measuring yields and water levels, formula for yields of wells, well spacing and interference, wells near streams, well screens and gravel pack, artificial recharge, well efficiency.

2:30 p.m. Coffee break

3:00 p.m. Hydraulics of wells, continued

3:30 p.m. Minimum Standards for a Sanitary Domestic Well ...
G. R. Svoboda
Hydrologist, Conservation and Survey Division, University of Nebraska
A review of the standards.

4:00 p.m. Discussion—all participants—A question and answer period and analysis of the material presented during the short course.

5:00 p.m. End of short course