

## Description of aquifer test for the Aldax well.

A single-well constant-rate test was conducted by Walters, Ball, Hibdon and Shaw Civil Engineering Consultants of Reno, Nevada. The well is located at 39° 0' 18"N, 119° 46' 29"W, and is completed in the basin-fill aquifer of Carson Valley, Nevada. Copies of time-drawdown and pump data were obtained from USGS historic files for the Carson Valley Hydrographic Area. Results of the aquifer test will be used in the development of a numerical ground-water flow model in Carson Valley, project # 9705-BPS01. Specifically, the estimated transmissivity will be used to develop a relation between transmissivity and specific yield. The relation will then be used with data from driller's logs to develop a preliminary distribution of transmissivity for the valley.

The pump rate for the test was 2,000 GPM for a period of 48 hours from 1/13/70 to 1/15/70. The methods of water-level and flow-rate measurements, location of discharge of pumped water, and pre-test water-level trends are not known. The well was reported pumped for about 2.5 hours 2.5 hours prior to the test, and the well was likely in use during summer months for irrigation from its reported date of construction on 4/22/63 to the testing period.. Time-drawdown data were analyzed using an Excel spreadsheet program (Halford and Kuniansky, 2002) and the Cooper-Jacob analysis.

Results of the test indicate a hydraulic conductivity and transmissivity of 21 ft/day and 8,300 ft<sup>2</sup>/day, respectively.

## References Cited

Halford K.J., and Kuniansky, E.L. 2002, Documentation of spreadsheets for the analysis of aquifer pumping and slug test data: U.S. Geological Survey Open-File Report 02-197, 54 p.