

NYE County NWRPO -Technical Data Report

RID No.	Transmitter	Org.	Receiver	Org.	Key word1	Title/Description
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4/28/04 10:20 through 4/28/04 17:00 - An observed peak in the water levels in Probes 1, 2, 3, and 4 occurred during this 8 hr, 40 min period of time. Two factors have been identified that may be contributory: 1) a sharp decrease in barometric pressure; and 2) the effects of a minor earthquake in Mono Valley, California (4/27/04 at 7:12 am, Lat 28.0519, Long -118.8120, Magnitude 3.57). Precipitation records for selected stations indicate no rainfall at Tonopah between April 18 and April 30, at Mercury Desert Rock during the month of April, or Las Vegas McCarran Airport between April 4 and April 30. However, more localized precipitation over Buckboard Mesa or Fortymile Wash.

Port depths used for water elevation calculations are directly measured values reflecting the distance between ground level and the measurement port and are reported in RID 5616 (accuracy = +/- 0.015% of the depth measured).

Accuracy of the downhole probe pressure is based on the probe pressure range: 250 psi probe = +/- 0.25 psi (approx. +/-0.58 ft), 1000 psi probe = +/-1.0 psi (approx. +/-2.31 ft).

Specific weight values used in calculations assume a uniform water temp of 15 ° C. Probe temperature accuracy = +/- 1° C. The elevations were not corrected for temperature or borehole deviation; temperature and deviation information are available in the geophysical logging suite for this well (RIDs: 4615, 5024 and 5412).

The water-level elevations presented must be considered approximate because of the potential error in the GPS-based elevation of the land surface at the well site which is believed to be on the order of +/- 1.75 ft. according to work performed by the Center for Nuclear Waste Regulatory Analyses. The potential error in the GPS-based elevations does not affect the depth to water nor the absolute change in water levels over time that may be calculated using the elevation datum for land surface. The potential error may, however, result in limitations in the use of these data for the calculation of hydraulic gradients between wells with the error induced in such calculations being inversely proportional to the distance between the two wells being used to perform the calculation, and directly proportional to the differences in surveying and processing techniques if different surveys were conducted for the two wells.

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**Governing
QA Docs.** TP-9.2 Rev. 1, WP-10 Rev. 0

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**Frequency
of
Transmittal** Biannually

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**Direct Questions
About Data
To-** Nye County QA Records Center