

NYE County NWRPO -Technical Data Report

RID No.	Transmitter	Org.	Receiver	Org.	Key word1	Title/Description
4802	Cox	Questa	QARC	Nye	3S	Report, "Analysis of 24-Hour Pump Test in Well NC-EWDP-3S, Near Yucca Mountain, Nevada", NWRPO-2002-01, January 2002, Prepared by Questa Engineering Corporation
Doc. Date	11/1/2001	General Doc. Type	Report	Keyword2	pump Test	
Entry Date	1/25/2002	Detailed Doc. Type	Technical Report	Keyword3	Hydrologic	
Data Originator Preparer	Dave Cox and Scott Stinson					
Title of Data	Analysis of 24-Hour Pump Test in Well NC-EWDP-3S, Near Yucca Mountain, Nevada					
Description of Data	This record contains a hard copy and electronic file of the subject report. The report describes the test procedure, analysis methodology, results and hydrologic interpretation of a 24-hr. pump test and 2-hr. recovery period conducted in April 2001 in well NC-EWDP-3S. The purpose of the test was to determine aquifer properties, such as permeability and well efficiency, for subsurface characterization. During the NC-EWDP-3S pump test and recovery, pressure was monitored in the adjacent well NC-EWDP-3D to evaluate inter-well communication.					
Data Collection Method	Data collection is described in the Test Procedures and Description section (Section 2.1) of the report. In accordance with TP-9.5, Westbay pressure sensors were placed above the submersible pump in well NC-EWDP-3S, and below the water table in the nearest offset well (NC-EWDP-3D), to measure the pressure response to pumping and recovery. Barometric pressure during the test was also recorded. Pump rates were determined using a 50-gal. (189.3-L) drum and a stopwatch.					
Data Location(s)	NC-EWDP-3S is located about 0.2 miles (about 0.3 km.) north of Highway 95 at a distance approximately 7.5 (about 12 km.) miles west-northwest along the highway from the Lathrop Wells Junction, near the point where Crater Flat is closest to the Amargosa Desert.					
Data Collection Period(s)	Field activities were conducted in April 2001. A preliminary test interpretation was prepared in April 2001, and the final report was completed in January 2002.					
Data Source(s)	The original test data were submitted by Nye County personnel to the NWRPO. See RID 4116 for pressure and temperature data during spinner logging and pump test, and field scientific notebook #132 (RID 4786). References to RIDs containing supporting well information, well logs, and other original data collected from NC-EWDP-3S can be found on the nyecounty.com web site under "EWDP" and "EWDP-3S".					
Data Censoring	Water level sounder measurements were recorded as a check, and were found to have a nearly constant deviation from the Westbay Mosdax readings. The analysis was prepared utilizing the Westbay information. The original test data may be viewed in their entirety at the NWRPO QA Records Center in Pahrump, NV.					
Data Processing	Data processing for analysis is described in the Model Analysis section (Section 2.2.1) of the report.					
Data Limitations	There are no particular limitations regarding the pressure or rate data recorded during the test. The test interpretation is limited by the inherent differences between the actual aquifer system present, and the idealized aquifer model assumed in the analysis. Analysis of the test indicated the presence of a severely damaged zone in the immediate vicinity of the well, which is consistent with the operations history indicating grout was injected in another borehole very close to this well. The test was analyzed using an equivalent single layer system, with the well being located in the center of a square with constant pressure boundaries to account for pressure support from outside the damaged region. Differences between the active well results and the observation well results are considered to be within an acceptable range. Because of the inferred effects of grouting, the transmissivity and storage computed from this test are considered to be applicable to an extremely small region extending approximately 22 ft. (about 7 m) from this well.					
Governing QA Data	TP-9.5, TP-9.7					

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