NYE County NWRPO - Technical Data Report

RID No.	Transmitter	Org.	Receiver	Org.	Key word1
6902	Walker	Nye County NWRPO Contractor	QARC	Nye	32P

Title/Description

Fluid Electrical Conductivity (FEC) geophysical logging data from borehole NC-EWDP-32P

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Doc. Date 4/12/2006 **General Doc. Type** QA Program Doc **Keyword2** logging tools

Entry Date 5/5/2006 **Detailed Doc. Type** Geophysical Log **Keyword3** data

Data Originator Preparer Raymond Federwisch

Title of Data Fluid Electrical Conductivity (FEC) geophysical logging data from borehole NC-EWDP-32P

Description of Data This transmittal consists of all of the fluid electrical conductivity (FEC) logging data collected during open hole FEC logging of borehole NC-EWDP-32P, following drilling and prior to well completion over the period 4/11/2006 and 4/12/2006. This logging/testing was conducted to determine flowing intervals in the borehole that could be monitored with a piezometer well completion. Conventional logs (electric logs, fluid logs, nuclear logs and deviation) were also conducted and are transmitted separately. A total of four tests were conducted during the testing of the borehole. A submersible pump was used to pump, circulate and reinject deionized water. The depths of the reinjection line were varied to accommodate the conditions observed. Fluid resistivity open hole logs were conducted after pumping, deionizing and recirculating water to the bottom of the borehole in order to displace the borehole fluid with less conductive fluid. Logging was conducted under ambient conditions and under pumping conditions. The geophysical data files were transmitted to the Nye County Quality Assurance Records Center (QARC) shortly after logging. This data will be described based on the four tests. Geophysical logging data files are provided to Nye County NWRPO in ".las" - log ascii format for distribution. For internal use, logs are also provided in paper copies and in ".WCL" - WellCAD proprietary format. All depths described below are referenced to a ground level datum established prior to drilling. Logging tool runs are identified by the date and time that the run was begun expressed in 24 hour clock. Additional description of the four individual tests is attached as an appendix.

Data Collection Method Data collected during geophysical logging and testing of borehole NC-EWDP-32P on 04/11/2006 through 04/12/2006.

Data Location(s) NC-EWDP-32P

Data Collection Period(s) 4/11//06 to 4/12/06

Data Source(s) Geophysical Logging Services (GLS) Logging System S/N 1010 using tools: Polyprobe S/N 2189.

Supporting Data: Scientific Notebook #168, pages 36-47, and Geophysical Log Header Check Sheet dated 4/12/06.

Data Censoring None

Data Processing Original transmittal did not include a file containing the complete data set. File was requested from GLS. File received had a depth step of 0.25 feet and was converted to 1.0 ft depth step with WellCad.

Data Limitations Logging data is provided in .las format. WellCad is required to read .WCD files. Logging data was collected at higher than normal rates (100 fpm vs. 45 fpm). Logs are plotted with multiple fluid resistivity runs overlaid. This method is used for FEC analysis. Logging data was collected at a depth step of 1.0 ft. Separate runs are plotted on the same log to compare fluid resistivity curves. Runs from #1 are plotted increasing from left to right and

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runs from test #2,3,4 are plotted increasing from right to left. Run from 4-11-06 0600 should be plotted from left to right

Governing QA Docs. WP 6 Rev. 1, TP-11.0 Rev. 0

Frequency of Transmittal As required by PI

Direct Questions About Data To- NWRPO QA Records Center