NYE County NWRPO - Technical Data Report

	RID No	Transmi	tter	Org.	Receiver	Org.		Key word1	Title/Description			
	6503	Gilmore		Nye County	QARC	Nye		10S	EWDP-10S Westbay Data, 5/18/04 - 12/14/04			
1	Doc. Date	2/15/2005	General Doc. Type	QA Program Doc		Keyword2	WB					
	Entry Date	2/15/2005	Detailed Doc. Type	Data		Keyword3	Data	ι				
Data Originator Preparer		Kathy Gilmore / Tom Buqo										
Title of Data		EWDP-10S Westbay Data, 5/18/04 - 12/14/04										

Description of Data	One CD containing an Excel file, "121404_10S QA.xls". This file contains atmospheric pressure, temperature, and calculated water elevations for zones 1 and 2; and temperature data for probes 1 and 2 for the period from 5/18/04 to 12/14/04 collected at Phase III EWDP-10S Westbay instrumented well.
Data Collection Method	Westbay Mosdax datalogger and pressure and temperature probes
Data Location(s)	NC-EWDP-10S
Data Collection Period(s)	5/18/04 to 12/14/04
Data Source(s)	From 5/18/04 to 6/29/04 : Westbay datalogger SN 2554 (Probe 0 - atmospheric) and two 250 psi probes - Probe 1 SN 2616, and Probe 2 SN 2446. From 6/29/04 to 12/14/04: Westbay datalogger SN 2693 (Probe 0 - atmospheric) and two 250 psi probes - Probe 1 SN 2613 and Probe 2 SN 2610. Probe. 1 depth = 682.13 ft Probe 2 depth = 838.98 ft Depths reflect measured values from the well ground surface to the subject measurement port. Original Westbay pressure and temperature data can be found in RIDs 6250, 6251, 6318, 6399 and 6442. Well completion diagram in RID 5261, Westbay Casing Log Completion in RID 4923, Wellhead Protection Detail in RID 5456, and manual water level measurements in RID 6360.
Data Censoring	No data from this submittal were censored.
Data Processing	The water elevation (ft, amsl [above mean sea level]) in a Westbay isolated zone is calculated from the pressure probe measurement (lb/ft^2) below the water table by subtracting the atmospheric pressure measurement (lb/ft^2) at the ground surface from the pressure measurement, dividing the result by the specific weight (lb/ft^3) of water at 15 degrees Celsius, and adding to this result the elevation (ft, amsl) of the probe. This calculation is made prior to submitting a QA processed data file to the Quality Assurance Records Center (QARC).
Data Limitations	EWDP-10S Westbay data limitations (data collection period 5/18/04 to 12/14/04). The following text contains additional information necessary for interpretation of the attached water elevation and temperature data. Time frames are listed for each activity. Certain activities, such as equipment testing or water sampling, may have impacted the data and the data analyzer should be aware of this.
	6/29/04 0846 through 6/29/04 1256 - data gap due to replacement of probes with newly calibrated probes.
	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).

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	Accuracy of the downhole probe pressure is based on the probe pressure range: 250 psi probe = +/- 0.25 psi (approx. +/-0.58 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: 4950, 5020, 5241, and 5416).								
	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 the 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 the differences in surveying and processing techniques if different surveys were conducted for the two wells.								
	The probe replacement of number of rapid rises and Seismic Catalog (http://w attributed to a seismic ev and 9/20/04, inclusive. If earthquakes on 10/16/04 the east. The rise and d (magnitude 3.62) and dis events on 12/2/04 and 12	on 6/29/04 resulted in d declines occur on t ww.seismo.unr.edu/ rent. The up and do During this period, the and 11/20/04 did no rop between 11/27/0 stant (38°N 118.95°W 2/9/04.	n an apparent reduction the hydrograph of the cgi-bin/catalog-search wn spike on 9/19/04 t ere were three events of result in any appare 4 and 11/29/04 could /). The observed wate	on in the a water elev i). A prono hrough 9/2 in excess ent respon- be related er level rise	mplitude of the vation data. The punced spike or 21/04 correspon of magnitude 5 se in water leve to a single seis e and decline be	daily variations in water level fluctuations until 8/17/04. A e dates of these spikes were compared against the UNRSL n 9/2/04 and corresponding drop on 9/5/04 cannot be ads with a series of earthquakes that occurred between 9/18/04 5.0 (two on 9/18/04 and one on 9/20/04). Similar magnitude els in 10S but the epicenters for these events were further to smic event on 11/28/04; however, this event was small etween 12/4/04 and 12/9/04 may be related to two seismic			
Governing QA Docs.	" TP-9.2 Rev. 1, WP-10 Re	ev. 0							
Frequency of Transmittal	Biannually								

Direct Questions Nye County QA Records Center About Data To-

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