NYE County NWRPO -Technical Data Report

RID No	o. Transm	itter	Org.	Receiver	Org.	Key word1	Title/Description	
6410	Gilmore		Nye County	QARC	Nye	22S	EWDP-22S Westbay Data, 3/27/03 - 12/17/03	
Doc. Date	10/25/2004	General Doc. Type	QA Program Doc		Keyword2	WB		
Entry Date	11/3/2004	Detailed Doc. Type	Data		Keyword3	data		
Data Originator Preparer	Kathy Gilmore)						
Title of Data	EWDP-22S V	Vestbay Data, 3/2	7/03 - 12/17/03					
			"					
Description of Data	One CD containing an Excel file "121703_22S QA.xls". This file contains probe pressure data for atmospheric pressure for probe 0, calculated water elevations for zones 1, 2, 3 and 4, and temperature data for probes 0, 1, 2, 3 and 4 for the period from 3/27/03 to 12/17/03 collected at Phase III EWDP-22S Westbay instrumented well.							
Data Collection Method	Westbay Mosdax Datalogger and pressure and temperature probes							
Data Location(s)	NC-EWDP-22S							
Data Collection Period(s)	3/27/03 to 12/	3/27/03 to 12/17/03						
Data Source(s)	From 3/27/03 to 6/17/03: Westbay datalogger SN 2693 (Probe 0 - atmospheric); three 250 psi probes - Probe 1 SN 2612, Probe 2 SN 2519 and Probe 3 SN 2452; and one 1000 psi probe - Probe 4 SN 2619.							
	From 9/25/03 to 12/17/03: Westbay datalogger SN 2554 (Probe 0 - atmospheric); three 250 psi probes - Probe 1 SN 3 SN 2615; and one 1000 psi probe - Probe 4 SN 2619.						psi probes - Probe 1 SN 2612, Probe 2 SN 2519 and Probe	
	Probe 1 depth Probe 3 depth		Probe 2 depth = Probe 4 depth =					
	Depths reflect measured values from the well ground surface to the subject measurement port.							
	Supporting Data: Original Westbay pressure and temperature data can be found in RIDs 5614, 5662, 5707, 5721 and 6028; Well Completion Diagram in RID 5264; Wellhead Protection Detail in RID 5457; Summary Westbay Casing Log in RID 5547; and field notes in Scientific Notebook #155 (RID 6350).							
Data Censoring								
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	ENDE 000 M							

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4/16/03 - 4/24/03 data gap - probes were pulled to pump zones 3 & 406/17/03 - 9/25/03 data gap due to aquifer testing.

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 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.

Governing QA Docs. TP-9.2 Rev. 2, WP-10 Rev. 0

Frequency

Biannually

of Transmittal

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Direct Questions About Data To-

Nye County QA Records Center