## NYE County NWRPO -Technical Data Report

RID N		o. Transmitter		Org.	Receiver	Org	Key word1	Title/Description	
	7162	Sampso	Sampson		QARC	Nye	4PB	hermal logging data and original Westbay	
1	Doc. Date	7/16/2006	General Doc. Type	QA Program Doc		Keyword2	Thermal	NC-EWDP-4PB from 7/11/06 to 7/16/06 using Sensornet	
	Entry Date	2/21/2007 Detailed Doc. Type		Data		Keyword3	Logging	Sentinel Distributed Temperature Sensor (DTS) equipment.	
Data ( Pr	Originator eparer	Judd Samps	on, Levi Kryder						
Title	e of Data Thermal logging data and original Westbay MOSDAX pressure and temperature data collected at NC-EWDP-4PB from 7/11/06 to 7/16/06 using Sensornet Sentinel Distributed Temperature Sensor (DTS) equipment.							ected at NC-EWDP-4PB from 7/11/06	
De	scription of Data	One cd containing temperature data (raw and processed) collected in NC-EWDP-4PB from 7/11/06 to 7/16/06 using Sensornet DTS equipment, including a reference temperature probe (RTP). Raw Sensornet data are in document description format (*.ddf) as well as *.tdf, *.txt, and *.tcd files, and processed data are in Excel spreadsheets (*.xls). Also included on the cd are the raw Westbay data files (*.WD2 format) and the corresponding files converted with WinGT software to comma separated value format (*.CSV). Sensornet DTS configuration files are stored in *.cfg files.							
Data Collection Method		The fiber optic temperature sensing cable and heater wire were installed below the water table in well NC-EWDP-4PB. A RTP was installed about 5 feet (ft) below the top of the water table, and Westbay MOSDAX probe EM2444 was hung just above the bottom of the well at 833 ft. Westbay data were collected on data logger MDL2565. The fiber optic cable is connected to the Sentinel DTS unit, which continuously records temperature data along the length of the cable (every 1.16 ft). The heater wire was connected to a generator via a power meter, which supplied power at 240 volts.							
		After data collection started, data were "stacked" every 900 seconds, and each "stack" recorded as a temperature profile along the length of the cable (and the well) every 900 seconds. After in situ conditions were recorded by the Sentinel DTS, the heater wire was turned on and allowed to heat the well for approximately 62 hours. At that time, the heater wire was turned off, and the well allowed to cool while data logging continued.							
		Gross deflections from baseline temperature profile at specific depths may indicate a change in geology, well completion materials, or local flow features.							
Data Location(s)		NC-EWDP-4PB							
Data Collection Period(s)		7/11/06 to 7/16/06							
Data Source(s)		Sensornet Sentinel DTS; 1309 ft fiber optic cable; Sensornet RTP; Westbay MOSDAX probe EM2444 (0-250 psi); and Westbay MOSDAX Data Logger MDL2565.							
		Supporting Data: Field Scientific Notebook #165, pages 66 to 72.							
Data	Censoring	Negative length data associated with the Sentinel DTS raw data were removed upon import to the Excel spreadsheet.							
Data	Processing	Data were imported into an Excel spreadsheet for ease of manipulation and graphing. Westbay data were converted from *.WD2 format to *.CSV format for ease of manipulation and graphing.							
Data Limitations		Data were collected to evaluate the utility of the DTS method in existing wells.							
G	overning A Docs.	TPN-6.1 Rev	/. 0						
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Direc At	et Questions bout Data To-	NWRPO QA Records Center							