NYE County NWRPO -Technical Data Report

RID N	o. Transm	itter	Org.	Receiver	Org.	Key word1	Title/Description					
7406	Gilmore		NWRPO	QARC	Nye	 18P	NC-EWDP-18P Alluvium and Non-Alluvium Logging Forms					
Doc. Date	10/29/2007	General Doc. Type	QA Program Do	oc	Keyword2 CU	ttings						
1 Entry Date	1/30/2008 Detailed Doc. Type Alluvium/Non-Alluvium Logging Keyword3 geology											
Data Originator												
Preparer Title of Data	NC-EWDP-18P Alluvium and Non-Alluvium Logging Forms											
Description of Data	Drill cuttings logging reports exported from drilling database (NC Drilling v3.6.mdb) in .pdf format (Alluvium Logging Form and Non-Alluvium Drill Cuttings Logging Form from 9/20/01 to 10/10/01).											
Data Collection Method	Borehole drilling and sampling, and borehole depth control procedures. Logs were reviewed for accuracy of field data. Samples collected at 18P during casing advance drilling to 45 ft. and open hole rotary drilling to 890 ft. with Ingersoll-Rand TH-75W drill rig.											
	NC-EWDP-18P											
Data Collection Period(s)	9/20/01 to 10/10/01											
Data Source(s)	 Visual field description per TP-8.0, Field Logging and Handling of Borehole Samples, Revision 2, 06/01/01, Section 5.5.; Drill cuttings sample Nye County NWRPO laboratory data that includes grain size distribution (sieve data) and hydrometer data (silt/clay measurement). 											
	Supporting D	ata: RIDs 4832, 5	5131, 6756.									
Data Censoring	 a Censoring a) 5.0 ft. to 7.5 ft. sample missed. b) 45 ft. to 890 ft. drilled open hole allowing contamination of all downhole samples. c) 490 ft. to 495 ft. and 500 ft. to 505 ft. samples collected from lost circulation zone (490'-500') after LCM and EZ Mud and Portland cement pumped down annulus. d) 730 ft. to 735 ft. lost circulation; regained samples after LCM and EZ Mud slugs downhole. Particle Size Distribution data and USCS Group Name on Alluvium Logging Form. Water Production data from 0 to 890 ft. 											
Data Processing	Data from fiel	d logging forms w	ere entered into	o the drilling dat	tabase, revie	wed, and transn	nitted to the QARC.					
Data Limitations	" NC-EWDP-18P was drilled with a percussion hammer casing advance rig and used a 7-7/8 in. milltooth tricone rock bit inside 9-5/8 in. drill casing w a 10 in. casing shoe for the first 40 ft in alluvium. From 40 to 890 (T.D.) ft, the hole was advanced in bedrock using open hole conventional air circulation and 7 7/8" rotary and hammer bits. Conventional air drilling requires more air volume than reverse circulation methods to lift an equal volume of sample. Open hole techniques allow contamination of samples from uphole sections of the borehole that can erode as the hole is deepened.											
	The Alluvium Logging Form includes preliminary field estimates of grain size distribution over the upper 40 ft. of alluvium. The estimates are made on every 2.5 ft sample interval and used for preliminary layering information and general planning of wells and screen intervals prior to receipt of laboratory data. These field estimates of grain size distribution should not be considered representative of the geologic samples. However, grain size distribution data determined by laboratory analysis on every second 2.5 ft sample interval are considered representative of the geologic samples. A											
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	comparison of preliminary field estimates with laboratory measurements of grain size distributions of geologic samples indicates significant error in field estimates. Therefore, particle size distribution data and USCS Group Name are censored.												
	The following data omissions from log columns are listed with the following comments: DRIVE CORE SAMPLING: CORE BARREL 4-inch inside diameter by 30-inch recoverable length. a) No drive core was cut or processed from this hole as minimum planned core was 50-ft. and last alluvium sample was 42.5 ft. to 45.0 ft. HOLE DIAMETERS: a) 0 ft. to 45 ft. = 9 7/8 inch (7 7/8 inch tricone mill tooth) b) 45 ft. to 85 ft. = 7 7/8 inch tricone mill tooth c) 85 ft. to 350.1 ft. = 7 7/8 inch tricone mill tooth d) 350.1 ft. to 506 ft. 7 7/8 inch tricone mill tooth ft to 810 ft. = 7 7/8 inch tricone mill tooth ft to 890 ft. = 7 7/8 inch tricone mill tooth ft to 890 ft. = 7 7/8 inch tricone mill tooth ft to 890 ft. = 7 7/8 inch tricone mill tooth SAMPLING TYPE: a) Drilling dry from 0 ft. to 85 ft. b) Drilling wet from 85 ft. to 506 ft. (injected water to 440 ft. for improved sample recovery) c) Drilling wet from 810 ft. to 810 ft. (Hole making water at 811 ft. / static water level = 776.7 ft.) d) Drilling wet from 810 ft. to 890 ft. open hole (injected water to 880 ft. for improved sample recovery) SAMPLE WEIGHTS / VOLUME:												
		added to BCS00011 e recovery dropped to culation (partial sam pressor e) 730 ft.	507 (505'-510') for 5 2 gallons or less/ ples later recovere to 735 ft. Lost circu	combined 5 ft. interva d after cem ulation (Re	depth interval I ienting void)								
Governing	TP-8.0, Field Logging and	Handling of Borehol	e Samples, Revisio	on 2, 06/01	/01, Section 5.	5							

Governing QA Docs.

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Frequency once per borehole of Transmittal

Direct Questions About Data To-