NYE County NWRPO -Technical Data Report

	RID No	o. Transm	nitter	Org.	Receiver	Org.	Key word1	Title/Description	
1	4683	Cox		Questa	QARC	Nye	19D	Report, "Analysis of Pump-Spinner Test and 48-Hour Pump	
	Doc. Date	11/1/2001	General Doc. Type	Report	Ke	yword2 pun	np-spinner	NWRPO-2001-03, November 2001, Prepared by Questa Engineering Corporation	
	Entry Date	12/14/2001	Detailed Doc. Type	Technical Report	Ke	yword3 Rep	oort		
Data Pi	Originator reparer	Dave Cox Ar	nd Scott Stinson						
Titl	e of Data	Analysis of P	ump-Spinner Test	and 48-Hour Pu	Imp Test in Well N	IC-EWDP-	19D, Near Yuc	cca Mountain, Nevada	
Des	cription of Data	This record of interpretation purpose of th NC-EWDP-1 communicati	contains a hard cop of a pump-spinne ne test was to dete 9D pump test and on.	by of the subject or test and assoc rmine aquifer pro recovery, pressu	report. The repor iated 48-hr. pump operties, such as ure was monitored	rt describes test and 2 permeabilit d in the adja	s the test proce 4-hr. recovery y and well effic acent well NC-	edure, analysis methodology, results and hydrologic period conducted in May 2000 in well NC-EWDP-19D. The ciency, for subsurface characterization. During the EWDP-19P and the Washburn well to evaluate inter-well	
Data	Collection Method	Data collection report. In act Mosdax press (NC-EWDP- recorded. Put	on is described in t cordance with TP- sure sensors were 19P and Washburr mp rates were det	the Description o 9.0, a series of s e placed above th n well), to measu termined using a	of Spinner Logging spinner logs were ne submersible pu ire the pressure re 50-gal. (189.3-L)	g (Section 2 run prior to ump in well esponse to drum and a	2.1.1) and Test and during pu NC-EWDP-19 pumping and r a stopwatch, a	Procedures and Description (Section 2.2.1) sections of the imping. In accordance with TP-9.0 and TP-9.5, Westbay ID, and below the water table in the nearest offset wells recovery. Barometric pressure during the test was also ind also with a turbine flow meter.	
Dat	a Location(s)	NC-EWDP-1 Wells Junctio NC-EWDP-1	9D is located in all on. Well NC-EWDI 9D.	uvial deposits or P-19P is located	n the western port 82 ft (25 m) north	ion of Forty of NC-EW	vmile Wash, ap /DP-19D and tl	pproximately 3.5 miles (about 5.5 km) northwest of the Lathrop he Washburn well is located about 6,300 ft (1,920 m) east of	
Da	ta Collection Period(s)	Field activitie	s were conducted	in May 2000. T	he final analysis r	report was	completed in N	lovember 2001.	
Dat	a Source(s)	The original	test data were sub	mitted by Nye Co	ounty personnel to	o the NWR	PO. See field	scientific notebook #124 (RID 3651) and RID 4045 for spinner	
		References t nyecounty.co	o RIDs containing om web site under	supporting well i "EWDP" and "E\	information, well le WDP-19D".	ogs, and ot	her original da	ta collected from NC-EWDP-19D can be found on the	
Data	a Censoring	The turbine r sufficient dist drum were us response did in the pressu All of the orig	neter rates were fo ance from the cha sed for rate determ not increase signi re at the Washburn inal test data may	ound to be errone nge in flow direc nination. Althoug ficantly as the te n well as a result be viewed in the	eously high, appar tion for a stable fl gh well NC-EWDP st went on, and th t of the NC-EWDF eir entirety at the N	rently beca ow profile t P-19P respo ne NC-EWE P-19D pump NWRPO QA	use the meter o be achieved; onded almost ir DP-19P respon o test, so no fu A Records Cer	had been placed too close to the wellhead and did not have ; accordingly, the hand measurements with a stopwatch and instantly to pumping at NC-EWDP-19D, the magnitude of the use was therefore not analyzed. There was no apparent change in ther analysis was performed on the Washburn pressure data. Inter in Pahrump, NV.	
Data	a Processing	Data process data is descr (Section 2.2.	sing of the spinner ibed in the Drawdo 5) sections of the i	data is describe own Analysis (Se report.	d in the Spinner L ection 2.2.2), Equi	.og Fundan ivalent Sing	nentals section le-Layer Analy	n (Section 2.1.2) of the report. Data processing of the pressure ysis (Section 2.2.4) and Multi-Layer and Multi-Pressure Modeling	

NYE County NWRPO - Technical Data Report

RID N	O. Transmitter Org. Receiver Org. Key word1 Title/Description
Data Limitations	The spinner logging runs were limited in that Screen #1 could not be logged while the pump was in the well because of limited clearance between the pump and the pipe. The turbine meter rates were found to be erroneously high, apparently because the meter had been placed too close to the wellhead and did not have sufficient distance from the change in flow direction for a stable flow profile to be achieved. The drawdown data obtained during pumping were considered to be most suitable for analysis because all five permeable intervals produced during the pumping periods. The recovery data were considered to be less suitable for analysis because the spinner logs during the recovery period indicated that significant crossflow between well screens occurred during that time. Crossflow after cessation of pumping caused the recovery trends to be artificially flattened, and application of standard analysis techniques to the recovery portion of the test would therefore yield incorrect results. The test interpretation is limited by the inherent differences between the actual aquifer system present, and the idealized aquifer model assumed in the analysis procedure. Analysis of the spinner data indicated five screened intervals were present. Because of the complexity of the aquifer system at this location, the computed results are considered approximate. Although the influence of the pump testing was observed in the NC-EWDP-19P wellbore 82 ft (25 m) away, the shape of the response curve did not follow conventional models, so those data were not considered suitable for determining aquifer properties. No response was detected at the Washburn well, 6,300 ft (1,920 m) away.
Governing QA Docs.	TP-9.0, TP-9.5, TP-9.7
Frequency of Transmittal	One time only
Direct Questions About Data To-	Nye County QA Records Center