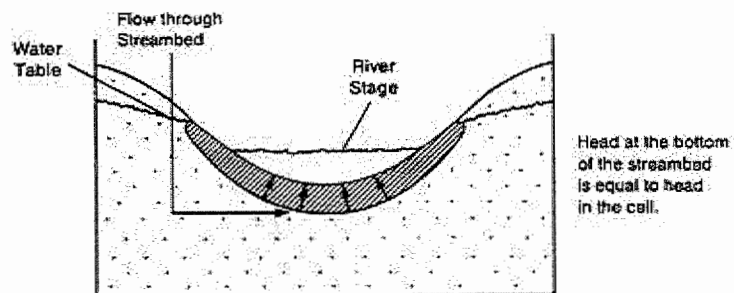


EXHIBIT HH



A

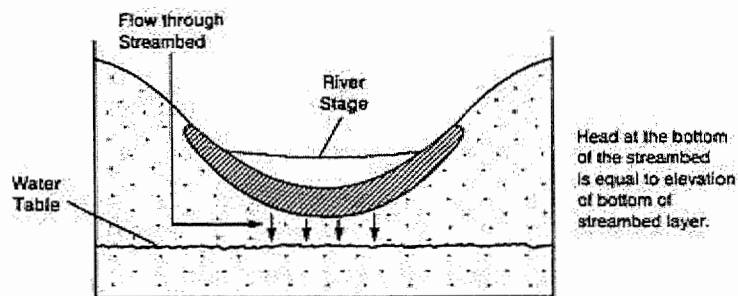
Vertical hydraulic conductivity of the stream bed are:

0.5 ft/day for Emma, East Emma, and Sand Creeks

5 ft/day for the Little Arkansas River

50 ft/day for the Arkansas River

Streambed thickness assumed to be 1 ft for all streams and creeks.



B

Figure 35.-Cross sections showing the relation between head at the bottom of the streambed layer and head in the cell. Head in the cell is equal to the water-table elevation.

Streamflow that was exceeded 70 percent of the time was used to simulate streamflow in the Arkansas and Little Arkansas River.

YEAR	MONTH	DAY	Little Ark. at Valley Center				Arkansas at Hutchinson			
			cfs	Cumul	Excedence	(cfd)	cfs	Cumul	Excedence	cfd
1990	11	23	17	256	70.14%	1,468,800	136	256	70.14%	11,750,400
1991	12	4	11	256	70.14%	950,400	54	256	70.14%	4,665,600
1992	2	17	28	257	70.22%	2,419,200	76	257	70.22%	6,566,400
1993	1	1	91	256	70.14%	7,862,400	495	256	70.14%	42,768,000
1994	12	6	22	256	70.14%	1,900,800	110	256	70.14%	9,504,000
1995	10	17	39	256	70.14%	3,369,600	144	256	70.14%	12,441,600
1996	3	22	44	257	70.22%	3,801,600	152	257	70.22%	13,132,800
1997	11	16	67	256	70.14%	5,788,800	398	256	70.14%	34,387,200
1998	2	22	111	256	70.14%	9,590,400	862	256	70.14%	74,476,800