

TABLE 2.5-3

**SUMMARY OF FIELD DERIVED AQUIFER TEST RESULTS
SOUTH HEART LIGNITE MINE**

Aquifer	Geologic Material	Statistic	Hydraulic Conductivity		Number of Wells Tested
			(ft/d)	(cm/s)	
Overburden - D Coal aquifer	Overburden Sandstone, Siltstone	Geometric Mean	2.6E-01	9.0E-05	2
		Maximum	5.5E+00	1.9E-03	
		Minimum	1.4E-02	5.1E-06	
	D Coal	Geomean	2.0E+00	7.0E-04	10
		Maximum	5.0E+01	1.8E-02	
		Minimum	1.4E-03	5.1E-07	
Underburden - HT Butte aquifer	Underburden Sandstone	Geometric Mean	1.0E-01	3.6E-05	5
		Maximum	1.3E+01	4.6E-03	
		Minimum	4.9E-05	1.7E-08	
	Various Underburden Claystone, Siltstone	Geometric Mean	1.5E-04	5.5E-08	3
		Maximum	1.9E-02	6.6E-06	
		Minimum	4.8E-07	1.7E-10	
	HT Butte Coal	Average	4.8E+00	1.7E-03	1
		Maximum	7.9E+00	2.8E-03	
		Minimum	2.3E+00	8.3E-04	

Notes:

- ft/d = feet per day
- cm/s = centimeters per second