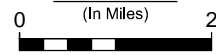




**SCALE**



USGS 100K QUADS:  
Lame Deer, Powderville,  
Birney, and Broadus

**Legend:**

- Mining Area —
- Tract Boundary
- Township Lines

$K = 2.83E-6$   
 $Ss = 1.0E-8$   
 $Sy = 0.005$   
 $Kh/Kv = 10$

$K = 2.83E-6$   
 $Ss = 1.0E-8$   
 $Sy = 0.005$   
 $Kh/Kv = 10$

**Modeled Geologic Units**

Shale

No Flow Boundary

River Boundary

**Legend:**

Model Parameter Zone

Model Hydraulic Properties  
 $K = 2.83E-6$  Horizontal Conductivity (feet per day)  
 $Ss = 1.0E-8$  Specific Storage (per foot)  
 $Sy = 0.005$  Specific Yield (dimensionless)  
 $Kh/Kv = 10$  Ratio of Horizontal Versus Vertical Conductivity

OTTER CREEK MINE, PERMIT ID: C2012018  
 EXHIBIT 314C APPENDIX B OTTER CREEK COAL MINE  
 GROUNDWATER FLOW MODEL DEVELOPMENT,  
 CALIBRATION, AND MINE DEWATERING SIMULATION

**LAYER 5 PARAMETER ZONATION AND BOUNDARY CONDITIONS**

**FIGURE 3-8**