

Dam: **Big Cherry**

Country **USA**

River **South Fork, Powell River**

36°50'47.00"N 82°40'19.84"W

36.846390 -82.672180

Owner/Client **Town of Big Stone Gap**

Designer/Engineer **Dewberry & Davis, GEI Consultants & Kleinfelder**

Contractor **Estes Brothers Construction**

Purpose (code) **W**

Site start **01.04.2004**

RCC start **01.09.2004**

RCC completion **02.01.2005**

Site completion **31.07.2005**

Height (m) **26**

Length (m) **113**

Volume of RCC ($m^3 \times 10^3$) **11**

Total volume ($m^3 \times 10^3$) **12**

Reservoir capacity ($m^3 \times 10^6$) **2**

Upstream slope

Forming of upstream face (code)

Downstream slope

Forming of downstream face (code)

Spillway slope

Forming of spillway face (code)

Depth of layers (mm) **300**

Depth of lifts (mm) **300**

Cement content (kg/m^3) **82**

Pozzolan content (kg/m^3) **82**

Code for pozzolan **(F)**

RCCDAM Unique Serial No. **RCCDAM0452**

Completed Dam



RCCDAM0452CD

Google Earth



RCCDAM0452GE

Guide to Abbreviations

Purpose

- E Environmental
- F Flood control
- G Groundwater recharge
- H Flood control
- I Irrigation
- N Navigation
- P Pollution control
- R Recreation
- W Water supply

Facing method

- (1) Traditional concrete against formwork
- (2) Traditional concrete against formwork with external geomembrane
- (3) RCC against formwork
- (4) RCC against formwork with external geomembrane
- (5) Traditional concrete against precast concrete panels
- (6) Traditional concrete against precast concrete panels with geomembrane
- (7) RCC against precast concrete panels
- (8) RCC against precast concrete panels with geomembrane
- (9) RCC against precast concrete panels with hot poured membrane
- (10) RCC against precast concrete blocks
- (11) Reinforced conventional concrete cast before RCC placement
- (12) Reinforced conventional concrete cast after RCC placement
- (13) Reinforced concrete cast against precast units or slip-formed facing elements
- (14) Slip-formed/extruded facing elements
- (15) RCC supported by fill shoulders
- (16) Mechanically compacted unformed face of RCC
- (17) Unformed face of RCC
 - ' GEVR/GE-RCC
 - * Stepped face

Pozzolans

- (-) No Pozzolan Used
- (C) High-lime flyash (ASTM Class C)
- (F) Low-lime flyash (ASTM Class F)
- (M) Milled sand
- (N) Natural pozzolan (ASTM Class N)
- (R) ROLAC (mixture of flyash and slag with or without limestone fines)
- (S) Ground-granulated blast-furnace slag
- (L) Mixture of GGBFS and limestone fines