Weston County

Custer County

Dewey Fault Zone

Weston County

Niobrara County

Fall River County

Custer County

Fall River County

Niobrara County

Long Mountain Structural Zone

T4S R1E | T4S R2E | T4S R3E

T5S R1E | T5S R2E | T5S R3E

T6S R1E | T6S R2E | T6S R3E

T7S R1E | T7S R2E | T7S R3E

T8S R1E | T8S R2E | T8S R3E

1000000 | 1020000 | 1040000 | 1060000 | 1080000

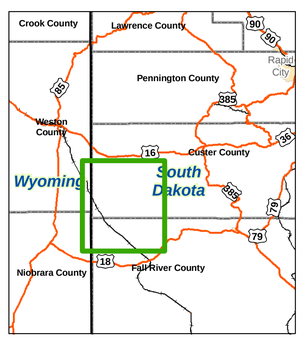
500000 | 480000 | 460000 | 440000 | 420000 | 400000

Legend

Surface Geology

- Quaternary Alluvium
- Cretaceous Fall River
- Cretaceous Lakota
- Jurassic Morrison
- Jurassic Unkpapa/Sundance

- TVA Data (historic drill holes)
- Breccia pipe or collapse structure in Inyan Kara Group or Morrison Formation
- Breccia pipe or collapse structure in Minnelusa Formation
- Breccia pipe or collapse structure in Spearfish Formation, Minnekahta Limestone, or Opeche Formation
- Breccia pipe or collapse structure in Sundance Formation
- Anticline
- Fault
- Monocline
- Proposed Permit Boundary



N

Feet
0 1,500 3,000 6,000 9,000 12,000

Meters
0 500 1,000 2,000 3,000

Breccia pipes, faults, anticlines, and monocline representations taken from:
Stratigraphy of the Inyan Kara Group and Localization of Uranium Deposits, Southern Black Hills, South Dakota and Wyoming, Geological Survey Professional Paper 763, prepared by Garland B. Gott, Don E. Wolcott and C. Gilbert Bowles, US Government Printing Office, 1974.

CONSULTANT

REVISIONS

#	DRAWN	CHECKED	APPROVED	DATE
3	S. Hetrick	Bonner / Lichnovsky	R. Clement / J. Mays	29-Jun-2009
2	S. Hetrick	Thurlkill / Blubaugh	R. Clement	25-Jun-2009
1	S. Hetrick	Thurlkill / Blubaugh	A. Thurlkill	22-Jun-2009

REF 334

CHECK SCALES
If this bar does not measure 1 inch this map is not at its original scale.
Arch E 36" x 48"

POWERTECH (USA) INC.

Supplemental Exhibit 2.2-1

Location of Breccia pipe or collapse structure Southern Black Hills, South Dakota

PLOT DATE	05-Aug-2009	DATE	05-Jun-2009
DRAWN	S. Hetrick	CHECKED	W. Mays
SCALE	1" = 3000'	FILENAME	P:\Dewey-Burdock\Maps\DB-PP763Tectonic.mxd
PROJECT	Dewey-Burdock Project		
COORDS	NAD 27, State Plane South Dakota South (feet)		

1a

1 OF 1