1000000 1020000 1040000 1060000 1080000

500000 480000 460000 440000 420000 400000

Weston County
Custer County
Dewey Fault Zone
Weston County
Niobrara County
Fall River County
Custer County
Fall River County
Long Mountain Structural Zone
Niobrara County

T4S R1E T4S R2E T4S R2E T4S R3E
T5S R1E T5S R2E T5S R2E T5S R3E
T5S R1E T5S R2E T5S R3E
T6S R1E T6S R2E T6S R3E
T6S R1E T6S R2E T6S R2E T6S R3E T6S R2E T6S R3E
T6S R1E T7S R1E T7S R2E T7S R3E
T7S R1E T7S R2E T7S R3E
T7S R1E T7S R2E T7S R2E T7S R3E
T7S R1E T7S R2E T7S R3E
T8S R1E T8S R2E T8S R2E T8S R3E
T8S R1E T8S R2E T8S R3E

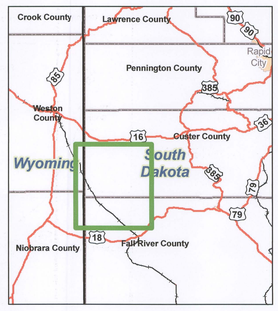
BLACK HILLS NATIONAL FOREST

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

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	Thurkill / Blubaugh	R. Clement	25-Jun-2009
1	S. Hetrick	Thurkill / Blubaugh	A. Thurkill	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"

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

POWERTECH (USA) INC.

Supplemental Exhibit 2.2-1

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

1a

1 of 1

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