

- ### LEGEND
- - - STUDY AREA
 - - - PERMIT BOUNDARY
 - MINE PIT BOUNDARY
 - E COAL BOTTOM SEAM STRUCTURE CONTOUR (INTERVAL = 20 FT)
 - \oplus 2420 BOREHOLE/WELL LOCATION AND E COAL THICKNESS (FEET ABOVE MEAN SEA LEVEL)
 - E COAL OUTCROP
 - E COAL SUBCROP
 - - - INCREASED WEATHERING AREA
 - 13 SECTION
 - TOWNSHIP & RANGE

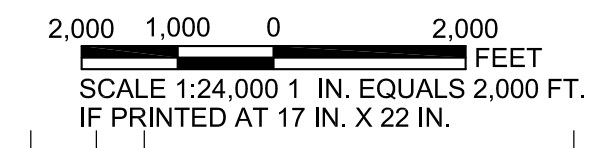
REFERENCE

Study Area: Golder 10/18/2007
 Permit Boundary: Norwest, 11/12/2009.
 Mine Pit Boundary: Norwest, 01/20/2010.
 Coal Seam Thickness, Outcrop, Subcrop, Increased Weathering Area: Norwest, 06/02/2008.
 Township, Range and Section: ND HUB, 6/20/2006.
 Projection: StatePlane, North Dakota South, NAD27, Feet.

NOTES

These were created as part of the geologic model for the mine plan. Contours are based on inverse distance squared and triangulation calculations and have occasional contouring breaks.

E Coal not encountered in every borehole shown on figure.



REV	DATE	DES	COMPLETENESS	COMMENT	EGM	RDT	JRH

PROJECT: SOUTH HEART COAL LLC
 SOUTH HEART LIGNITE MINE
 SOUTH HEART, NORTH DAKOTA

TITLE: **E SEAM BOTTOM STRUCTURE**

NORWEST CORPORATION	PROJECT No.	4284-01-400	FILE No.	E Seam THK & ELV.dwg
	DESIGN	EGM 03/11/08	SCALE	AS NOTED
	CADD	EGM 01/22/10	REV.	1
	CHECK	RDT 02/10/10	Figure 2.3-14	
REVIEW	JRH 02/15/10			