

- ### LEGEND
- - - - STUDY AREA
  - - - - PERMIT BOUNDARY
  - - - - MINE PIT BOUNDARY
  - E1 COAL THICKNESS CONTOUR (INTERVAL = 2 FT)
  - $\oplus$   
2.8 BOREHOLE/WELL LOCATION AND E1 COAL THICKNESS (ABOVE FEET MEAN SEA LEVEL)
  - E1 COAL OUTCROP
  - E1 COAL SUBCROP
  - - - - INCREASED WEATHERING AREA
  - 13 SECTION
  - TOWNSHIP & RANGE

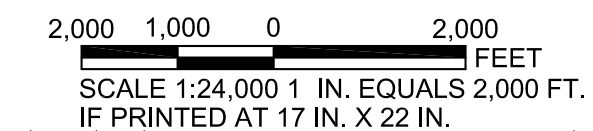
### REFERENCE

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.

E1 Coal not encountered in every borehole shown on figure.



REV	DATE	DES	COMPLETENESS	COMMENT	EGM	RDT	JRH
07/09/10		EGM					

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

TITLE: **E1 COAL THICKNESS**

PROJECT No.	4284-01-400	FILE No.	E1 Seam THK & ELV.dwg
DESIGN	EGM	03/11/08	SCALE AS NOTED
CADD	EGM	01/22/10	REV. 1
CHECK	RDT	02/10/10	
REVIEW	JRH	02/15/10	

**NORWEST CORPORATION**

Figure 2.3-8