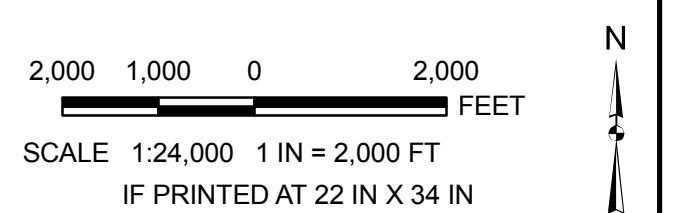


- LEGEND**
- Borehole
  - Borehole Completed As a Groundwater Monitoring Well
  - Historic Borehole
  - ▭ Study Area
  - ▭ Permit Boundary
  - ▭ Mine Pit Boundary
  - +— Railroad
  - Paved Road
  - Unpaved Road
  - Drainage Way
  - ▭ Township and Range
  - ▭ Section
  - Index Contour - 100 Ft Interval
  - Contour - 20 Ft Interval

**REFERENCES**

Historic Boreholes: Norwest, 6/2/2008.  
 Study Area: Golder, 10/18/2007.  
 Permit Boundary: IEI, 11/12/2009.  
 Mine Pit Boundary: Norwest, 1/20/2010.  
 Township, Range and Section: ND HUB, 6/20/2006.  
 Roads, Railroad, Drainage Ways: Digitized from aerial photography, 6/19/2006.  
 Contours: Generated from aerial photography stereo pairs, 6/19/2006.  
 Projection: StatePlane, North Dakota South, NAD27, Feet.



REV	DATE	BY	CHK	DESCRIPTION	DATE	BY	CHK	DESCRIPTION
1	07/21/2010	AJR		COMPLETENESS COMMENT		AJR	SAH	JW
2		DES		REVISION DESCRIPTION		GS	CHK	RW

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

TITLE: **GEOLOGY STUDY AREA WITH BOREHOLE LOCATIONS**

DESIGN	AJR	06/23/2007	SCALE	AS SHOWN	REV	1
GIS	AJR	07/21/2010				
CHECK	SAH	07/22/2010				
REVIEW	JW	07/22/2010				

PROJECT NO: 993-2212A FILE: SH\_246\_Boreholes.mxd  
 Golder ASSOCIATES Denver, Colorado  
 FIG 2.3-1

Map Document: N:\GPRD\Southern\Projects\CH2\Geology\SH\_246\_Boreholes.mxd Modified: 7/20/2010 4:17:21 PM Plotted: 7/20/2010 4:17:21 PM by: jbellmer