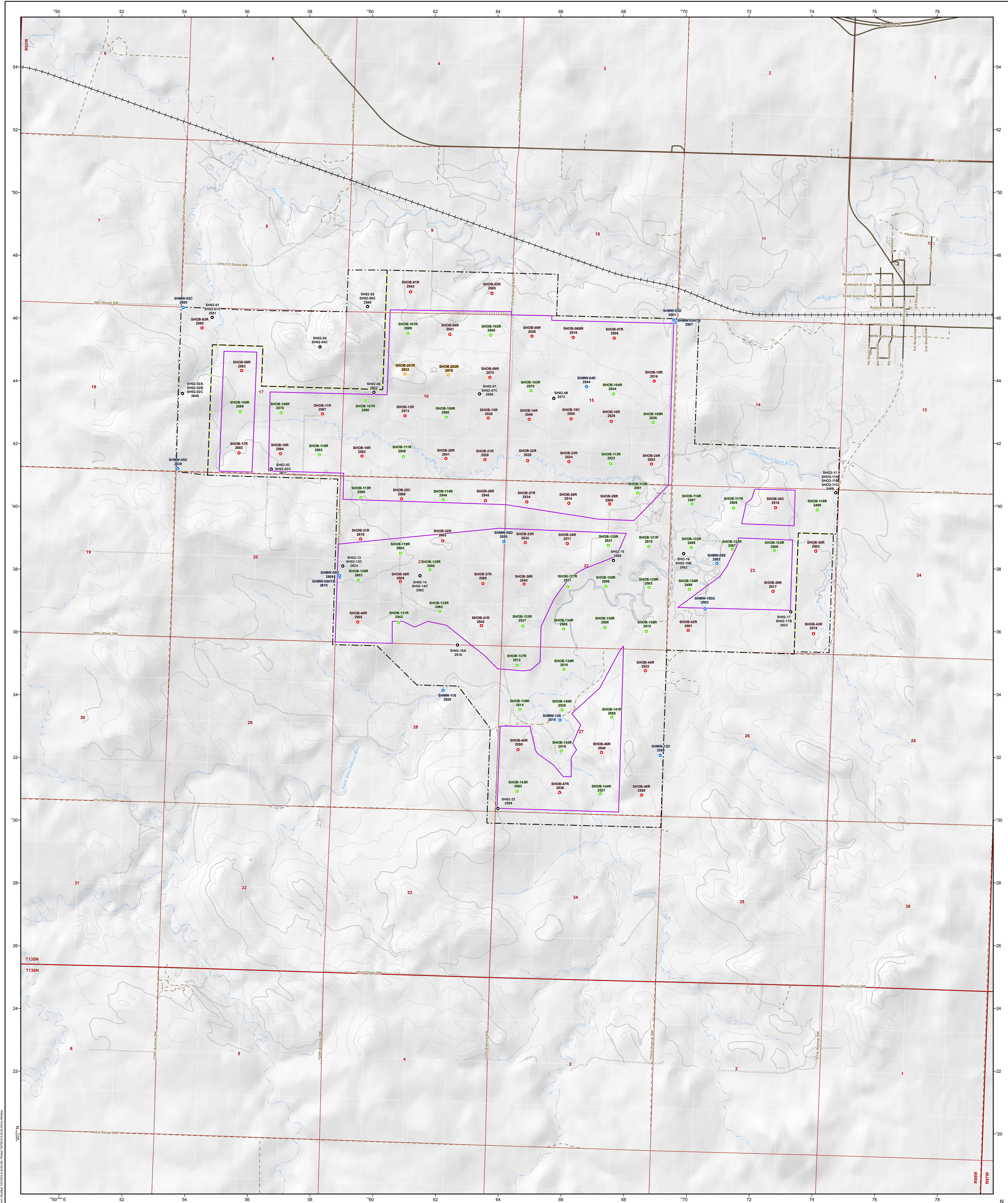




- LEGEND**
- SHOB-07 2558 Historic 2002 Borehole with Lithologic Log and Ground Surface Elevation (Feet above mean sea level)
 - SHMW-04D 2540 Phase I or 2009 Borehole with Lithologic Log and Ground Surface Elevation (Feet above mean sea level)
 - SHOB-13R 2540 Phase II Borehole with Lithologic Log and Ground Surface Elevation (Feet above mean sea level)
 - SHOB-107R 2582 Phase III Borehole with Lithologic Log and Ground Surface Elevation (Feet above mean sea level)
 - SHOB-202R 2579 2010 Borehole and Ground Surface Elevation (Feet above mean sea level)
 - Overburden Study Area
 - Permit Boundary
 - Mine Pit Boundary
 - Township and Range
 - Section
 - Quarter, Quarter Section
 - Railroad
 - Paved Road
 - Unpaved Road
 - Trail
 - Drainage Way
 - Index Contour 100 Feet
 - Contour 20 Feet

REFERENCE

Overburden Study Area: Golder, 02/25/2010.
Permit Boundary: IEI, 11/12/2009.
Mine Pit Boundary: Norwest, 1/20/2010.
Township, Range, and Sections: 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.

1,000 500 0 1,000
SCALE 1:12,000 1 IN = 1,000 FT
IF PRINTED AT 34 IN X 44 IN

NO.	DATE	DESCRIPTION	BY	CHKD	APPD
1	06/19/2006	COMPILED	AM	AM	AM
2	06/19/2006	REVISION	AM	AM	AM
3	06/19/2006	REVISION	AM	AM	AM
4	06/19/2006	REVISION	AM	AM	AM
5	06/19/2006	REVISION	AM	AM	AM

SOUTH HEART COAL LLC
SOUTH HEART Lignite Mine
SOUTH HEART, NORTH DAKOTA

CURRENT AND HISTORIC BOREHOLES WITH LITHOLOGIC LOGS

GOLDER ASSOCIATES
Denver, Colorado

FIG 2.3-20