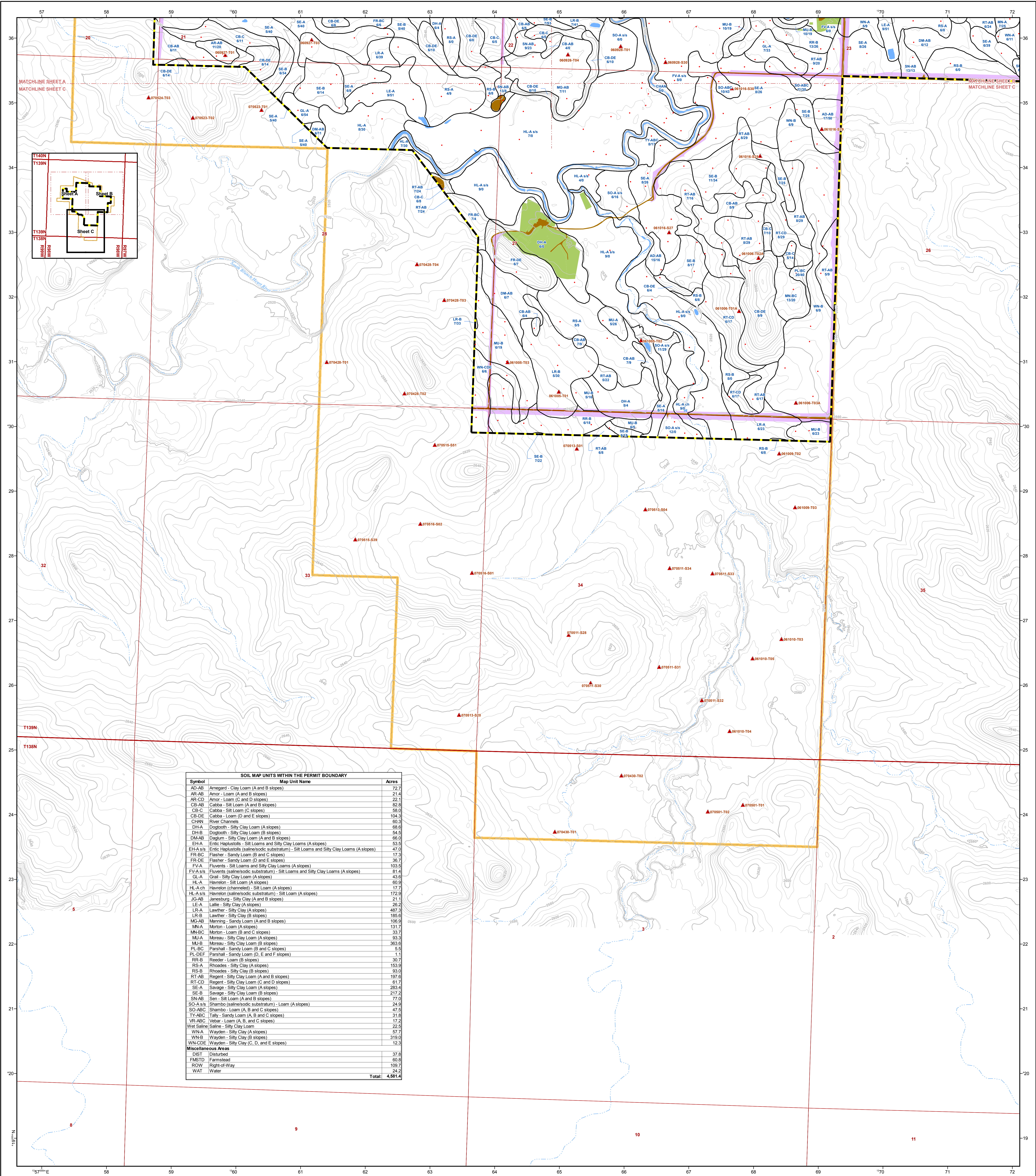




LEGEND

OBSERVATION POINTS

- Recorded Only
- Sampled - Labeled with Unique Site ID (070515-S39)

SOIL MAP UNITS

Soil Boundaries

- Map Units - Labeled with Symbol and Lift 1 / Lift 2 Salvage Thicknesses in inches (DH-A)
- Miscellaneous Areas
 - Salvage All Soil (both thicknesses) as Lift 2
 - Farmsteads
 - Rights-of-Way and Lanes
 - No Soil Salvage Within These Areas
 - Water and Permanently Wet Areas
 - Other Disturbed Areas

Study Area

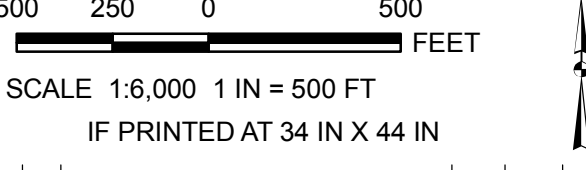
- Match Line
- Drainage Way
- Township and Range
- Section
- Index Contour - 20 Foot Interval
- Contour - 5 Foot Interval

NOTES

- Slope Ranges:
 - A = 0 to 3 percent;
 - B = 3 to 6 percent;
 - C = 6 to 9 percent;
 - D = 9 to 15 percent;
 - E = 15 to 25 percent; and
 - F = greater than 25 percent.

REFERENCE

- Permit Boundary: IEI, 11/12/2009.
- Study Area: Golder, 4/27/2007.
- 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.



REV	DATE	BY	DESCRIPTION	APP	DATE
1	06/11/2014	JEI	ISSUED FOR PERMIT	JEI	06/11/2014

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

FIG 24-2C