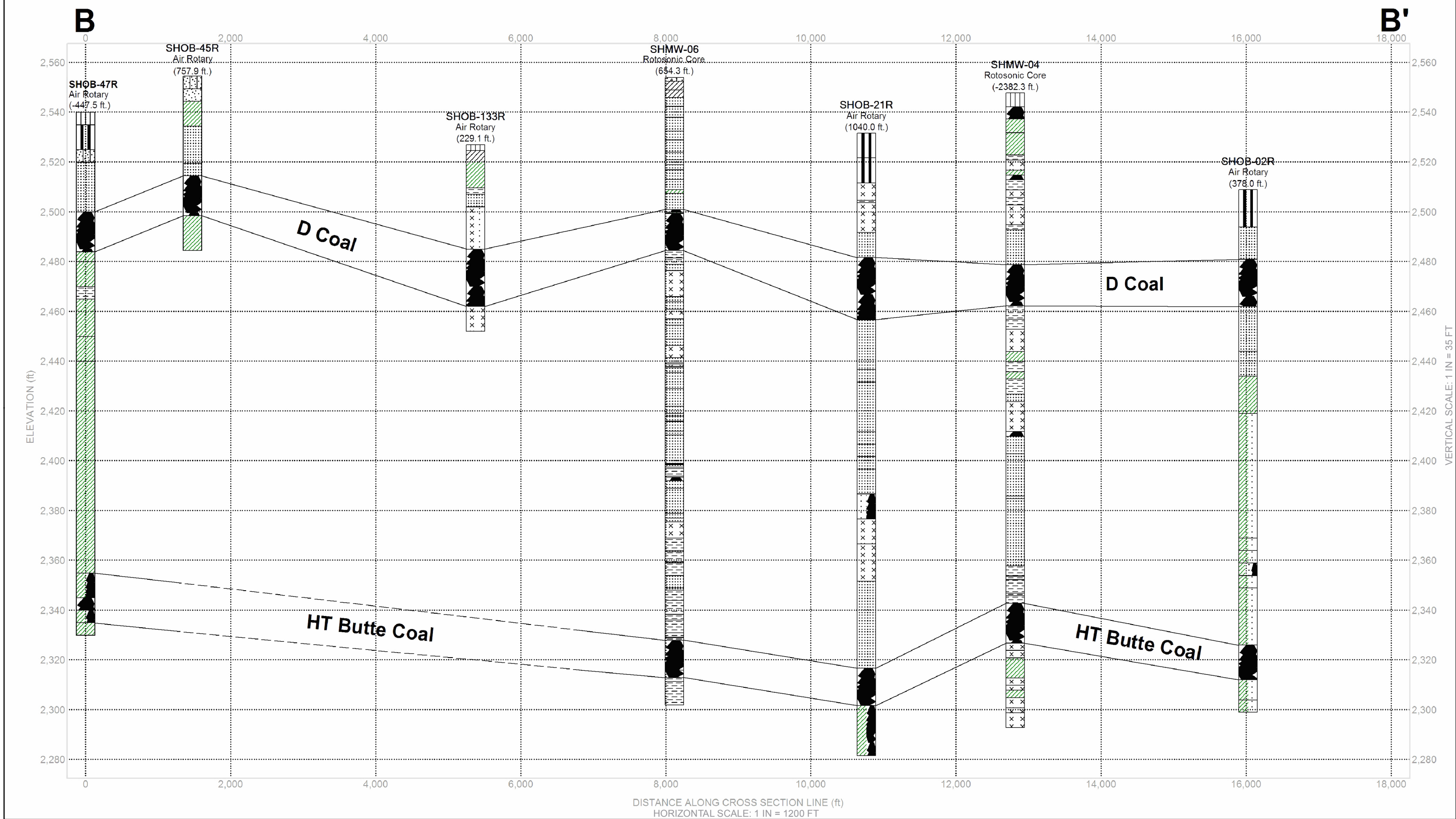
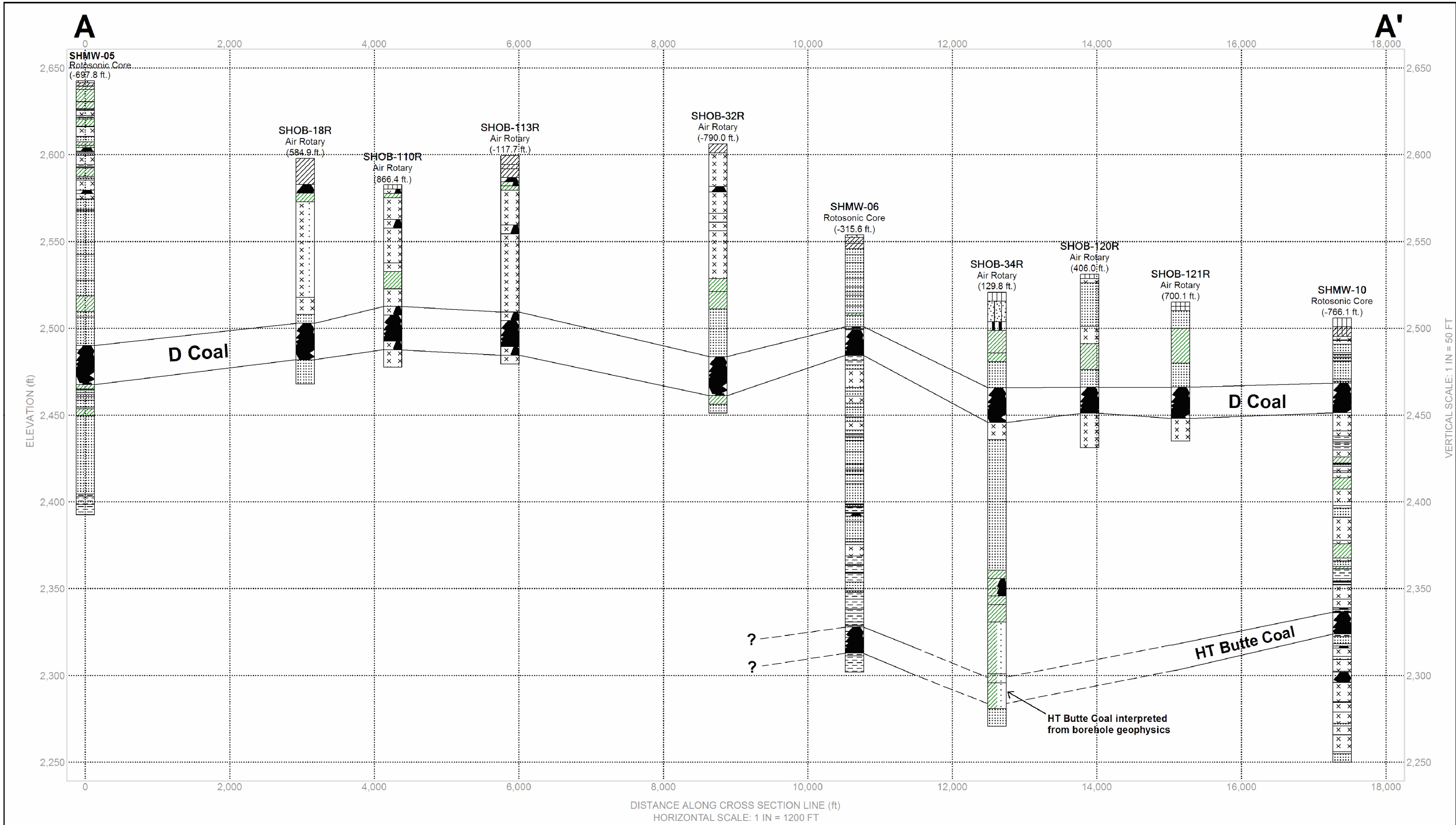


\\na-files\Documents\1\2\2017\SouthHeart\1\2\2017\Permit\CH2\Geology\CrossSection.mxd / Modified: 2/22/2016 10:18:44 AM / Printed: 2/22/2016 10:18:44 AM by: amlmer



SHOB-18R — Borehole ID  
Air Rotary — Drilling Method  
(584.9 ft.) — Distance from Cross Section Line

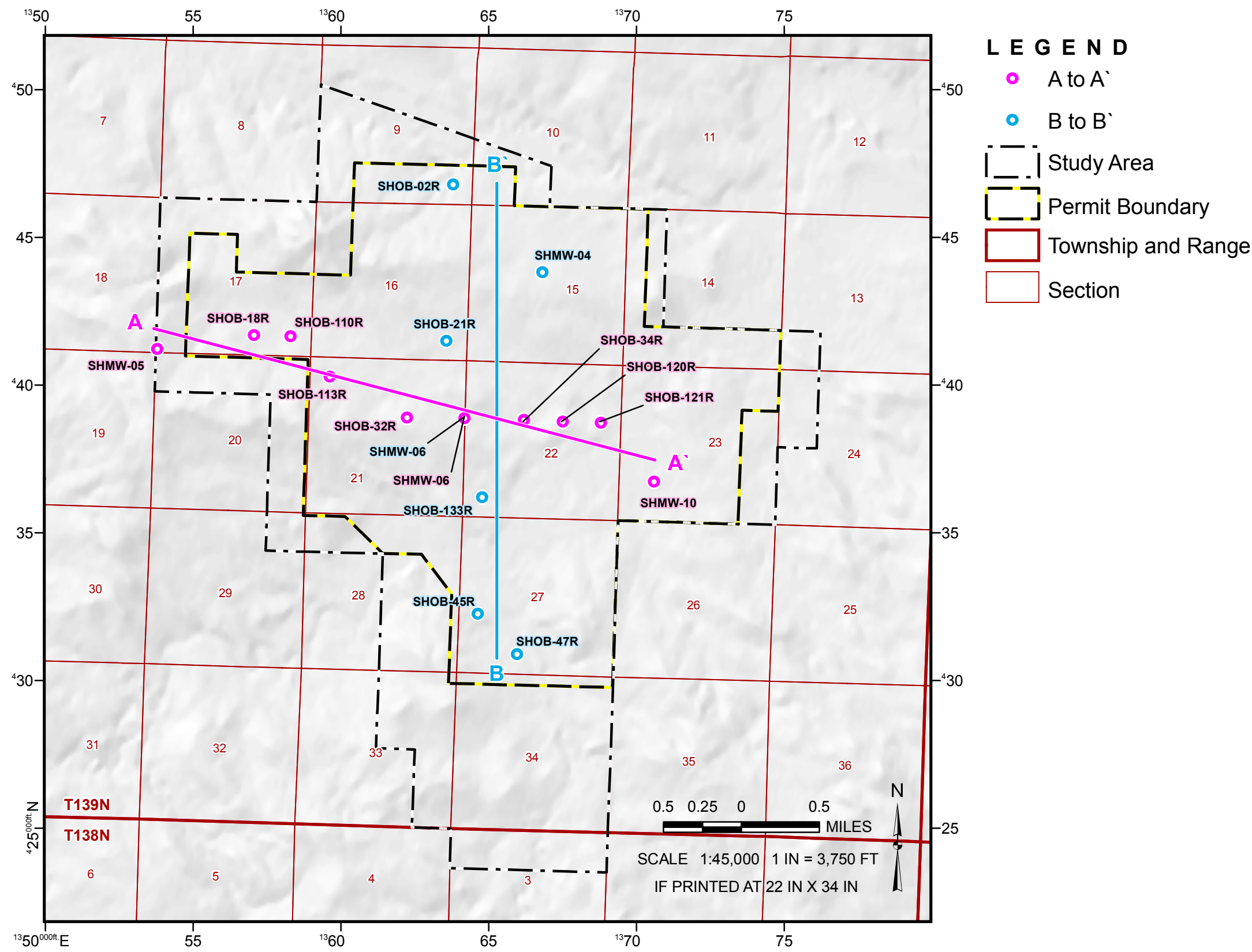
#### LEGEND

|  |  |  |
|--|--|--|
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

#### NOTES

The borehole log for SHMW-10 extends below 2,250 feet but has been truncated for cross section A-A'.

Air Rotary borehole logs provide less detail than Rotosonic borehole logs.



#### REFERENCE

Permit Boundary: IEI, 11/12/2009.  
Township, Range and Section: ND HUB,  
6/20/2006.  
Projection: StatePlane, North Dakota South,  
NAD27, Feet.

|     |            |     |                      |    |     |    |
|-----|------------|-----|----------------------|----|-----|----|
| REV | DATE       | DES | REVISION DESCRIPTION | GS | CHK | RW |
| 1   | 04/28/2008 | AJR | Initial Design       |    |     |    |
| 2   | 02/23/2010 | AJR | Revised Design       |    |     |    |
| 3   | 02/23/2010 | AJR | Final Design         |    |     |    |
| 4   | 02/23/2010 | AJR | Final Design         |    |     |    |

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

TITLE: **GEOLOGIC CROSS SECTIONS**

PROJECT NO: 983-2212A | FILE: GeoHydroCrossSection.mxd

DESIGN: AJR | SCALE: AS SHOWN | REV: 0

CHECK: AJR | DATE: 02/23/2010

REVIEW: EJP | DATE: 02/23/2010

**FIG 2.5-2**