Latest deep formation tops at the Blan well site based on seismic data

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Note: Place mouse over or double click icon in upper left corner of slides to view notes
Seismic Line and Drill Location in Hancock Co., Kentucky

Proposed drill site on Blan Farm
N-S Seismic Line in Hancock Co.

- Knox ~4,000 ft. thick
- Gentle N dip
- Mt. Simon pinches out to S
- pC units are likely sedimentary
- pC1* nearly conformable with Pz
- pC4* folded and pinches out to S
- pC5* thrust and fold belt (note angular relationships)

Modified from Drahovzal, 1997, figure 2
• Knox Group is up to about 4,000 ft. thick at drill site—primary target
• Mt. Simon is up to nearly 600 ft thick at the north end but likely thin (<100 ft?) to missing at drill site and, if present, could be shaley
• Possible sand-rich facies below in pC1*—could represent reservoir rock (not previously drilled)
Top of Knox Group in Hancock Co., Kentucky* (in thousands of feet sub sea)

Knox Group is at about -3,250 ft sub sea or 3,870 ft depth**.

*Based on proprietary seismic data in adjacent counties of northern Kentucky and southern Indiana

**Assuming ground elevation of 620 ft.
Top of Eau Claire Formation in Hancock Co., Kentucky* (in thousands of feet sub sea)

Eau Claire Formation is at about -7,250 ft sub sea or 7,870 ft depth**.

*Based on proprietary seismic data in adjacent counties of northern Kentucky and southern Indiana

**Assuming ground elevation of 620 ft.
Top of Precambrian Basement in Hancock Co., Kentucky* (in thousands of feet sub sea)

Precambrian Basement is at about -7550 ft sub sea or 8170 feet depth**. It is likely that Mt. Simon will be thin (<100ft) or missing.

*Based on proprietary seismic data in adjacent counties of northern Kentucky and southern Indiana

**Assuming ground elevation of 620 ft.
References Cited
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