

APPENDIX F
Tri-State Area Regional Cross Sections

SUBSURFACE GEOLOGY FOR CARBON STORAGE - MRCSP TRI-STATE PROJECT AREA

NORTH

SOUTH

Ohio
West Virginia
and
Pennsylvania



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LEGEND

Rock Units (Paleozoic)

- Carbon Storage Target
(potential saline reservoir > 2500 ft depth)
- Local Storage Target
(confining interval contains potential
reservoirs within it > 2500 ft depth)
- Confining Interval
(> 2500 ft depth)
- Organic-rich shale
(> 2500 ft depth)
(includes mixed shale & limestone)

Basal Confining Units (Precambrian)

- Igneous & metamorphic

Rock unit series (dashed lines are inferred)

- Correlation lines
- Top of Mississippian strata
- Top of Devonian strata
- Top of Silurian strata
- Top of Ordovician strata
- Top of Knox-equivalent strata (unconformity)
- Top of Cambrian strata
- Top of Pre-cambrian (Proterozoic) strata

Key depths

- 1000 ft well depth (min EOR)
- 2500 ft well depth (min CCS)

Geophysical logs

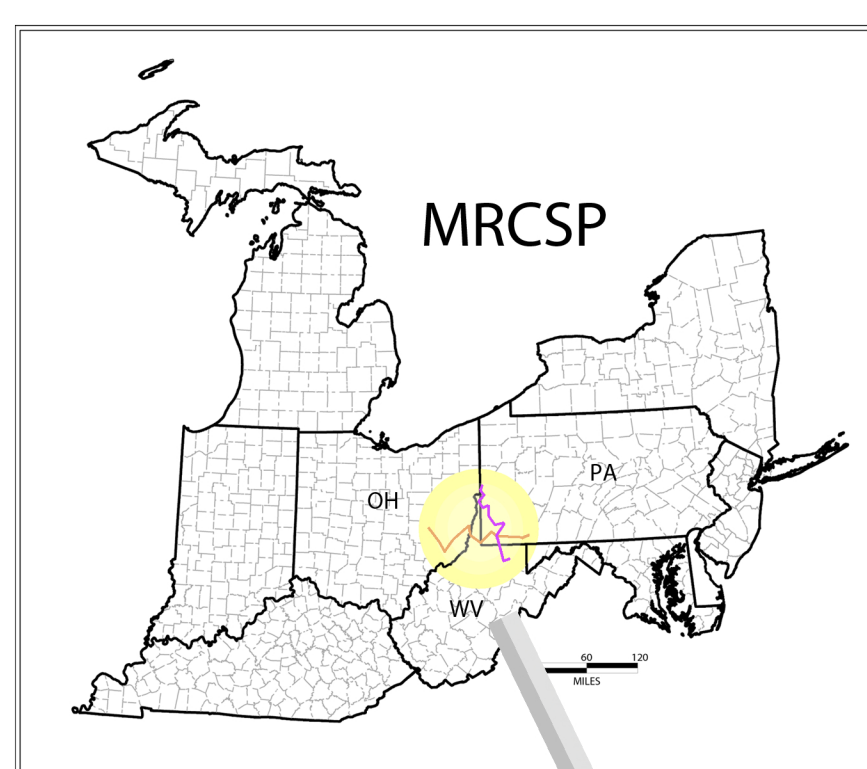
- GR (Gamma Ray)
- rhoB (bulk density)
- NPHI (neutron porosity)

Well symbols

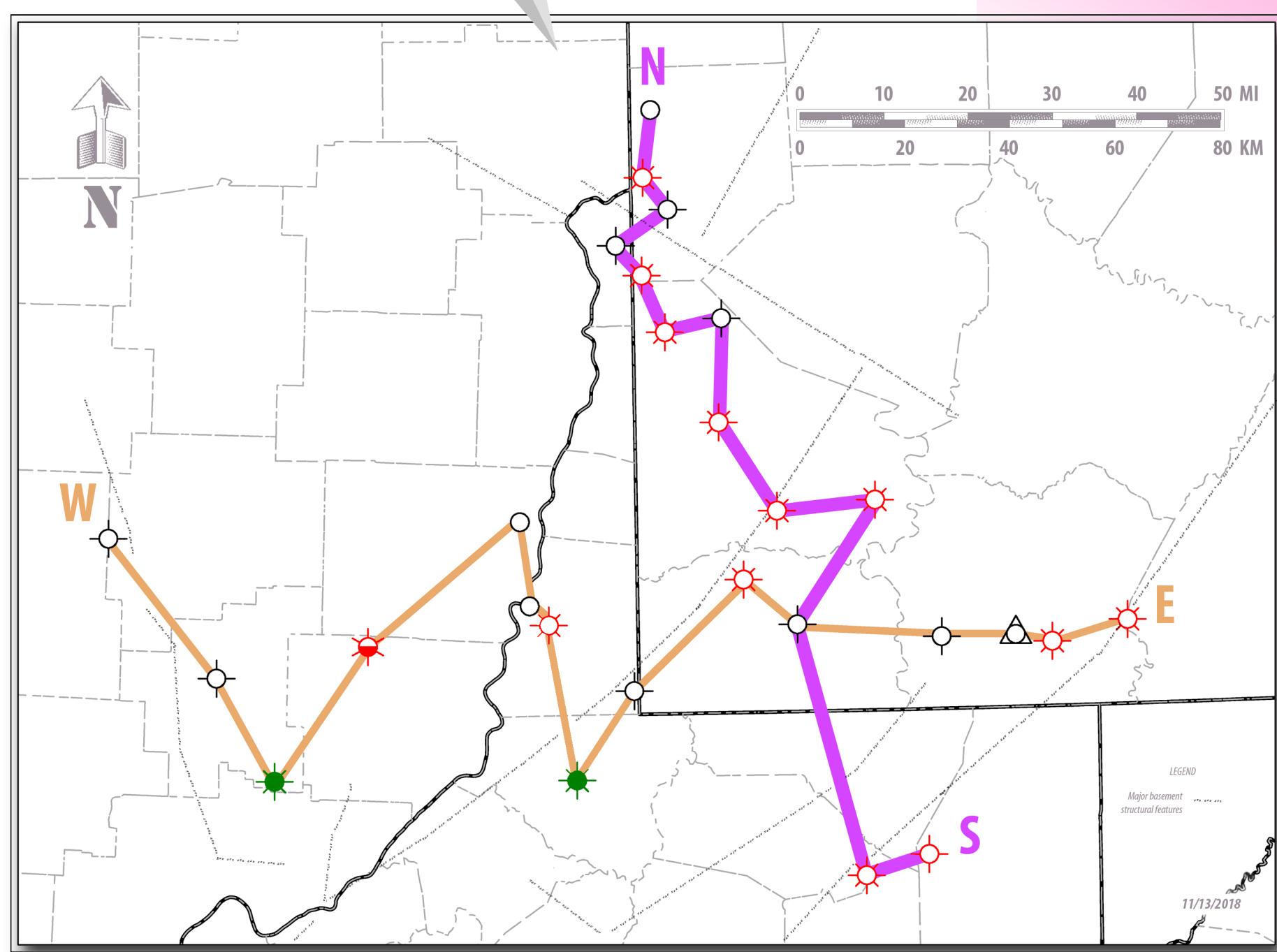
- gas well
- oil & gas well
- gas well with oil show
- dry hole
- service well
- unknown

Structure symbols

- fault (arrow shows
direction of
movement)
- dashed lines are inferred
- anticline
- syncline
(thin-skinned tectonic features)



CROSS-SECTION
LOCATION MAP



WEST

SUBSURFACE GEOLOGY FOR CARBON STORAGE

MRCSP TRI-STATE PROJECT AREA

EAST

