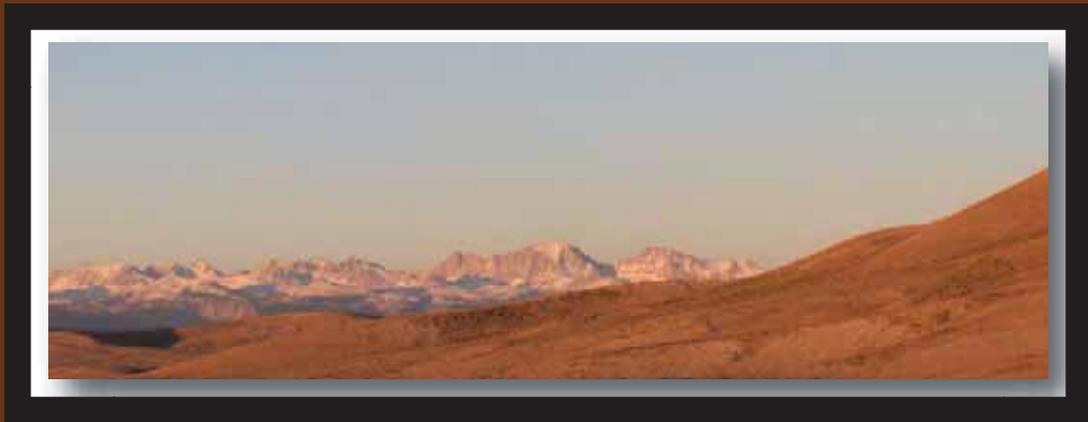
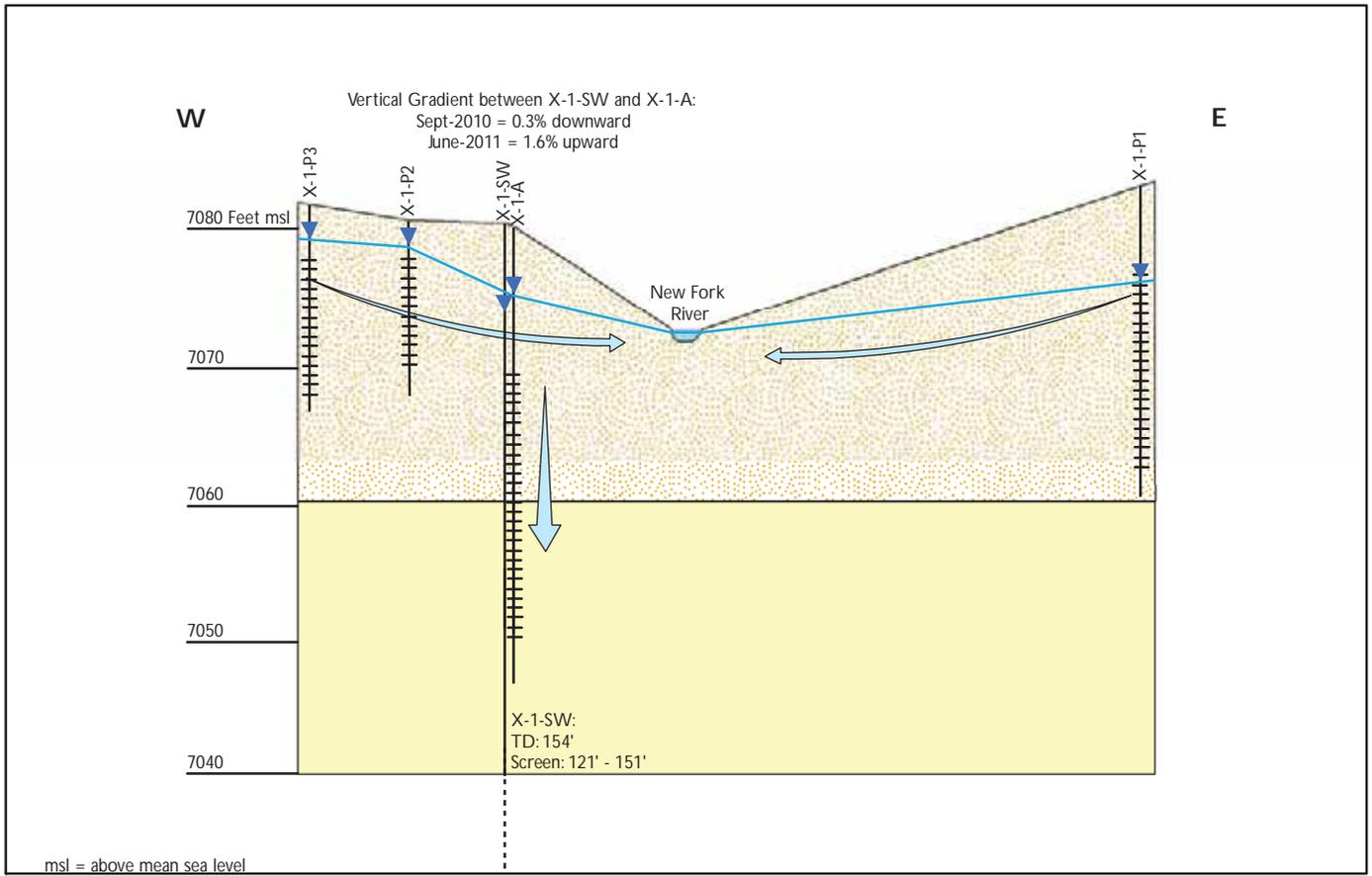


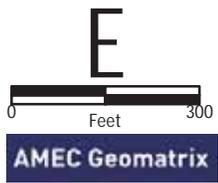
# APPENDIX J



## Hydrogeologic Cross-Sections

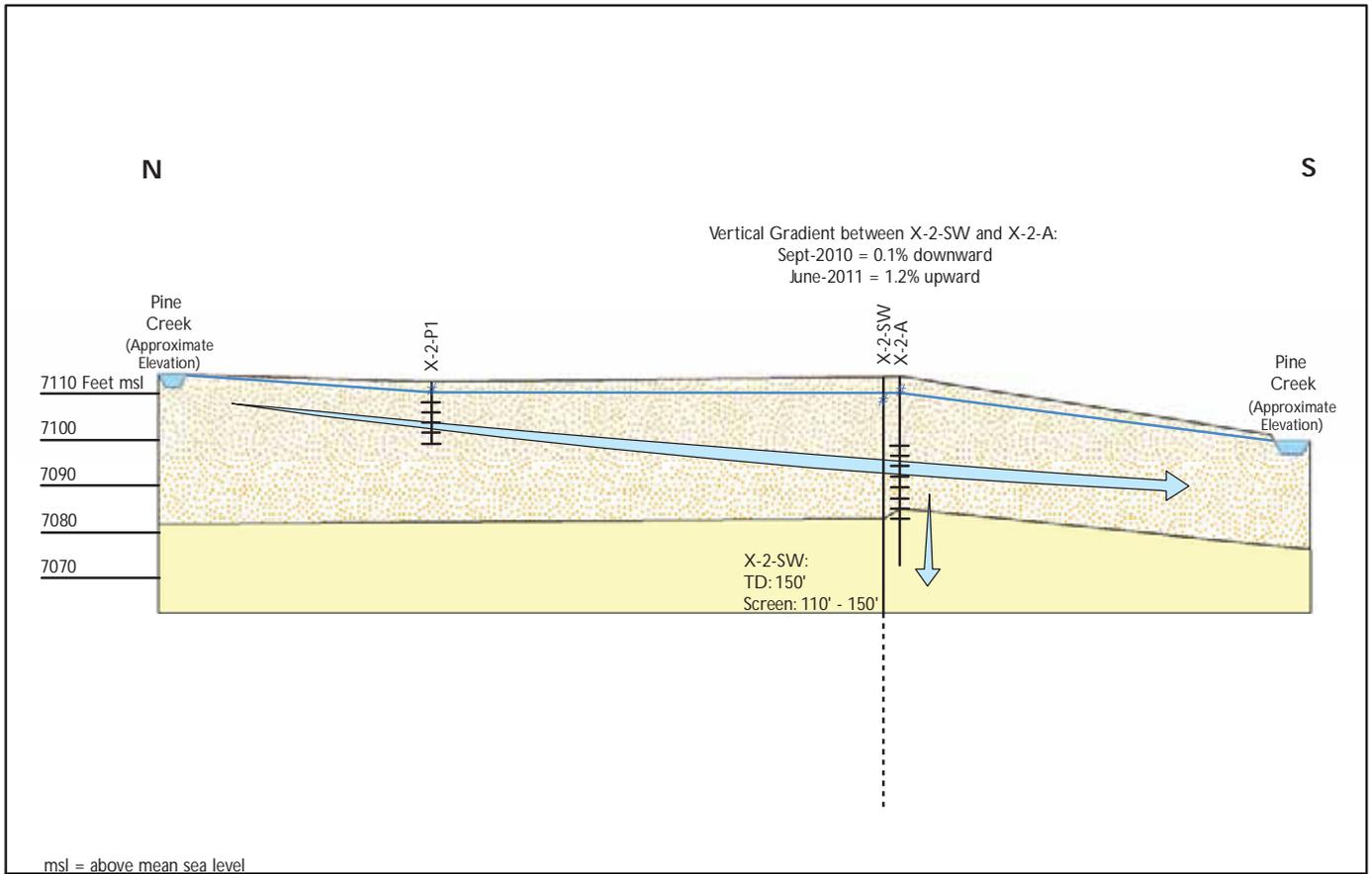


- # Groundwater Elevation in Study Well/Piezometer (Sept. 2010)
- Water Table in Alluvial System (Sept. 2010)
- ↔ Generalized Direction of Groundwater Flow
- ⊥ Study Well and Perforated Zone
- Generalized Lithology
  - ▨ Alluvium
  - Sandstone

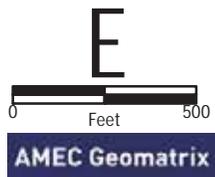


- Line of Cross-Section
- ⊙ Study Well/Piezometer
- ∕ Stream/River Survey Point

Hydrogeologic Cross-Section Site X-1  
 PAPA Data Gaps  
 Sublette County, Wyoming

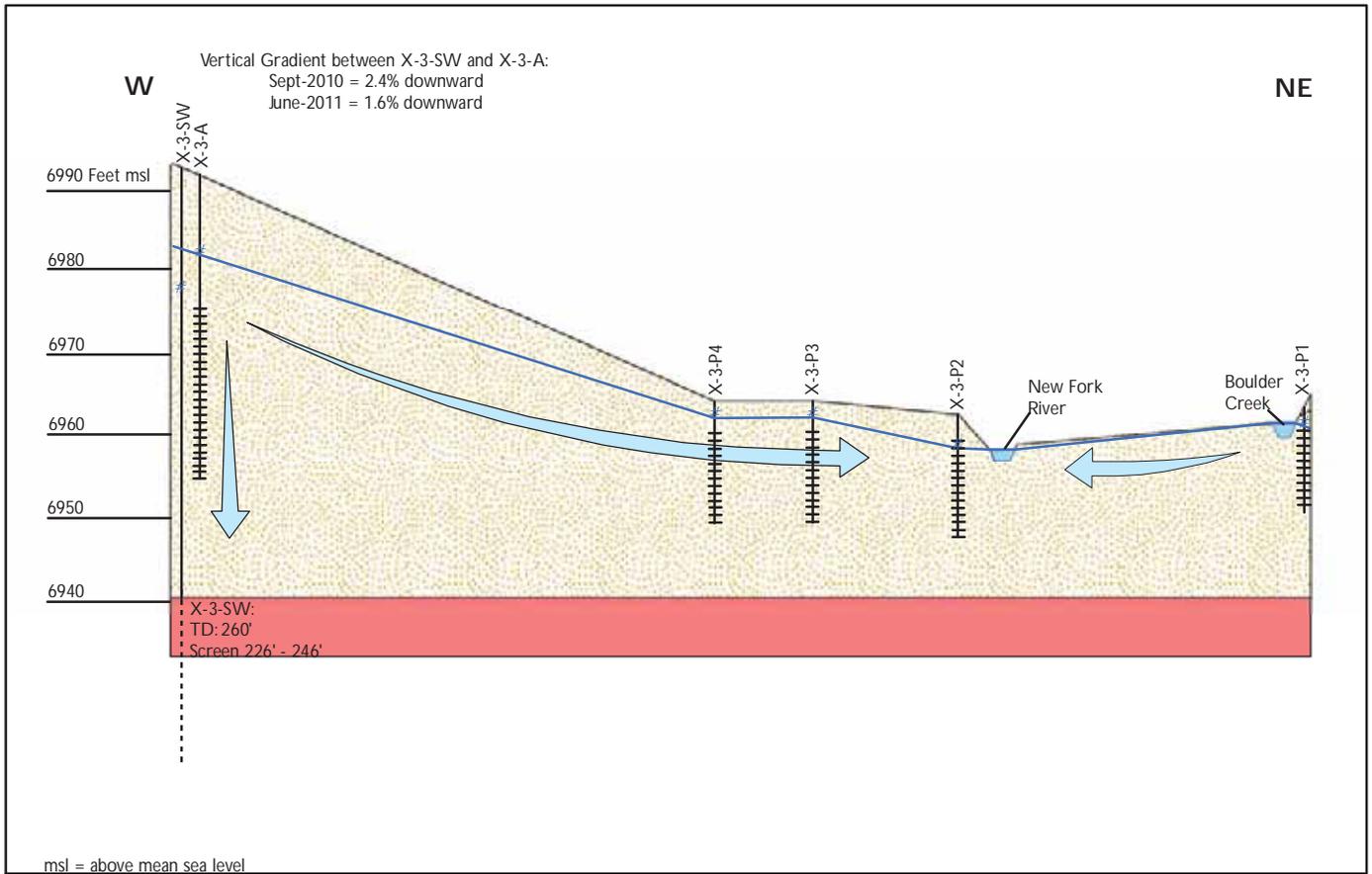


- # Groundwater Elevation in Study Well/Piezometer (Sept. 2010)
- Water Table in Alluvial System (Sept. 2010)
- ↔ Generalized Direction of Groundwater Flow
- ⊥ Study Well and Perforated Zone
- Generalized Lithology
- Alluvium
- Sandstone

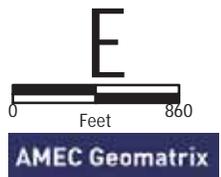


- Line of Cross-Section
- ⊙ Study Well/Piezometer
- ~ Stream/River Survey Point

Hydrogeologic Cross-Section Site X-2  
 PAPA Data Gaps  
 Sublette County, Wyoming

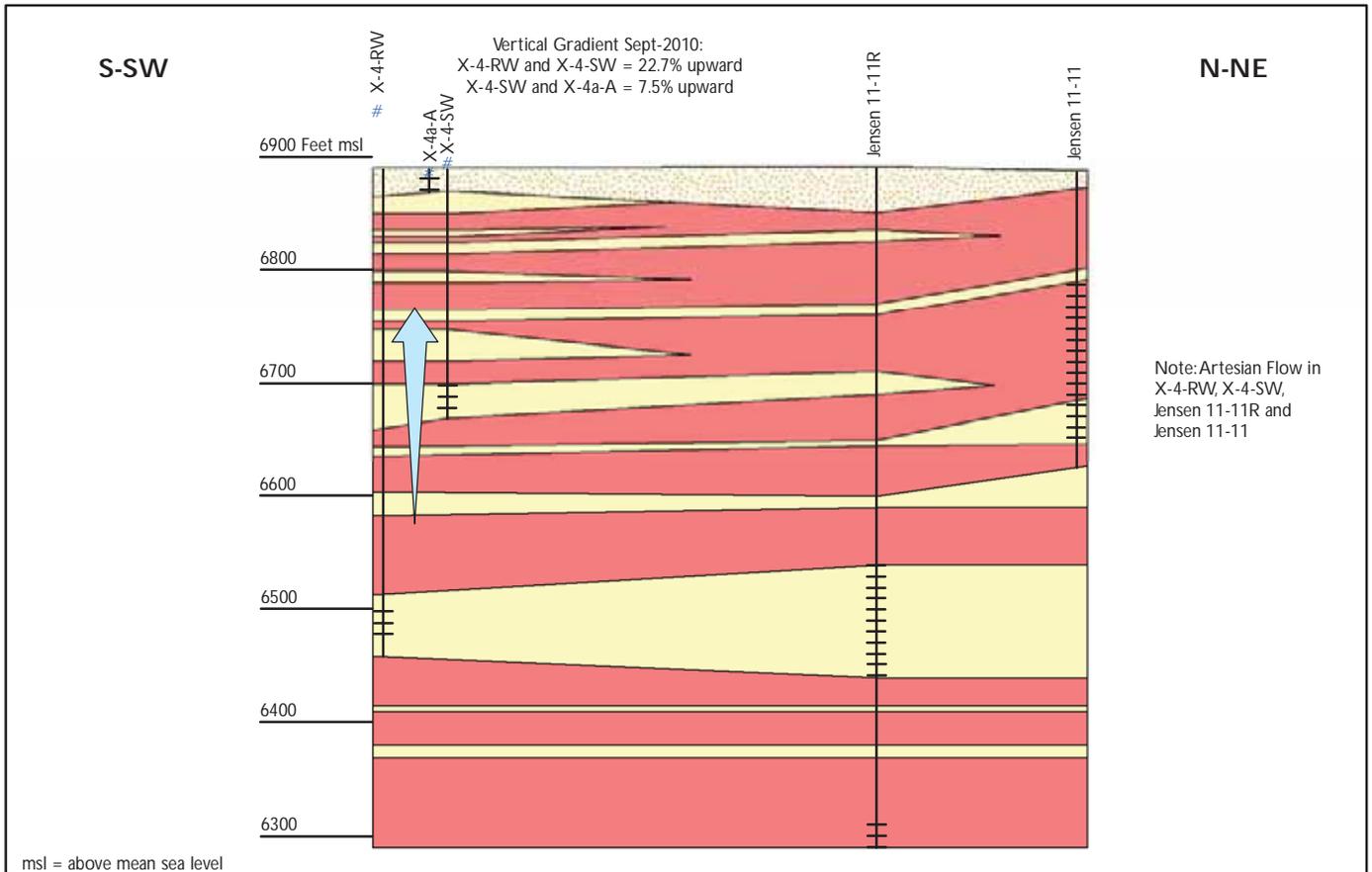


- |   |   |   |                                |   |                       |
|---|---|---|--------------------------------|---|-----------------------|
| # | Groundwater Elevation in Study Well/Piezometer (Sept. 2010) | ⊥ | Study Well and Perforated Zone | ▨ | Generalized Lithology |
| — | Water Table in Alluvial System (Sept. 2010)                 | ▨ | Alluvium                       | ■ | Shale/Siltstone       |
| ← | Generalized Direction of Groundwater Flow                   |   |                                |   |                       |



- |     |                           |
|-----|---------------------------|
| —●— | Line of Cross-Section     |
| ●   | Study Well/Piezometer     |
| ∟   | Stream/River Survey Point |

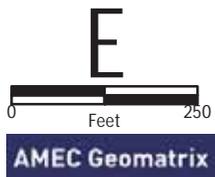
Hydrogeologic Cross-Section Site X-3  
 PAPA Data Gaps  
 Sublette County, Wyoming



- # Groundwater Elevation in Study Well (Sept. 2010)
- ↔ Generalized Direction of Groundwater Flow
- ⊥ Well and Perforated Zone (X- = Study Wells, all other wells are Industrial Water Supply Wells)
- Generalized Lithology
  - ☐ Alluvium
  - ☐ Sandstone
  - ☐ Shale/Siltstone

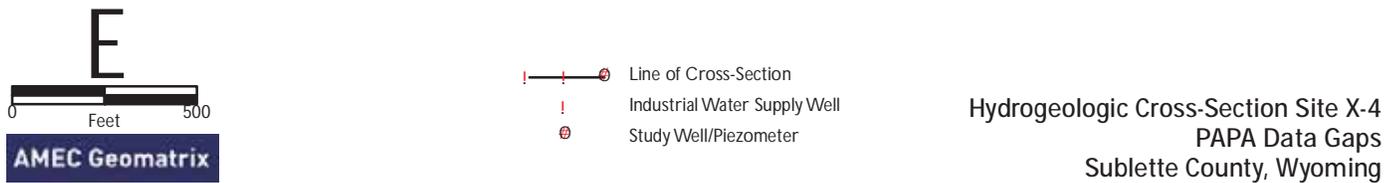
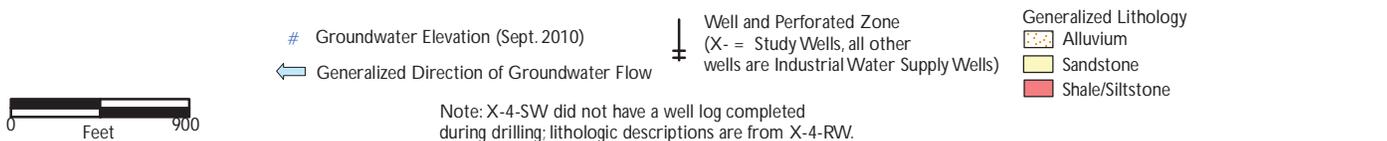
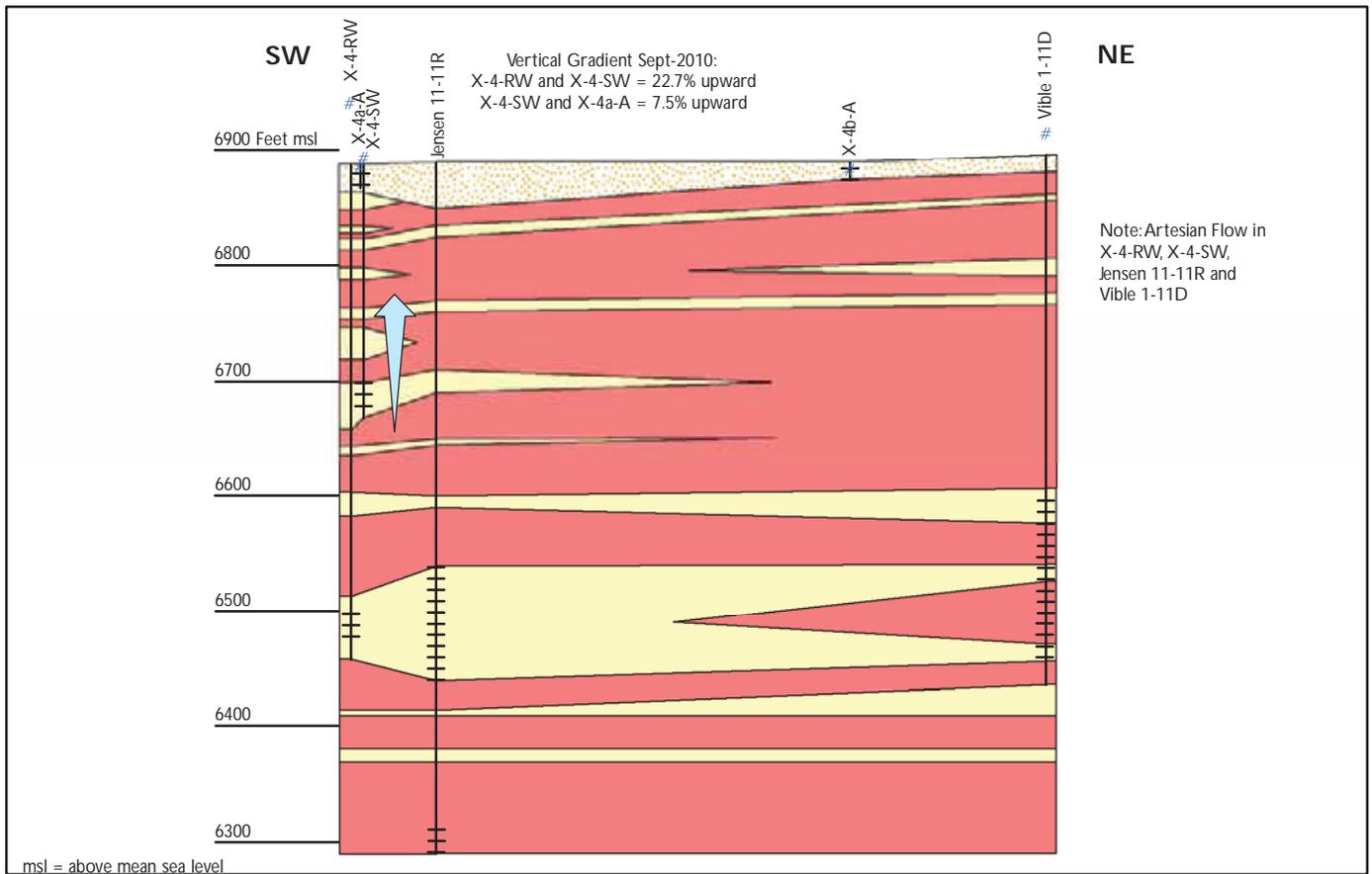


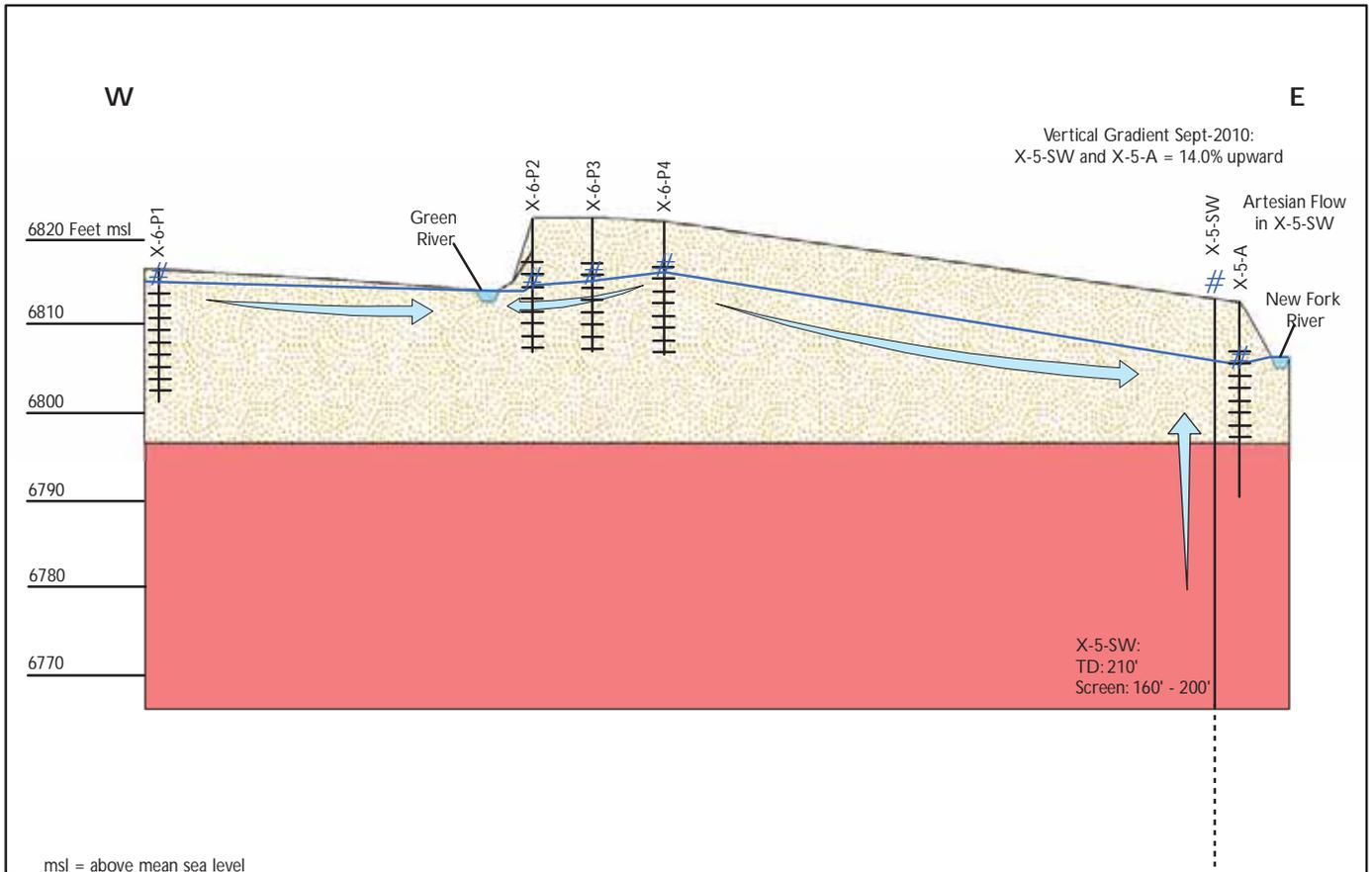
Note: X-4-SW did not have a well log completed during drilling; lithologic descriptions are from X-4-RW.



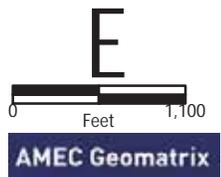
- Line of Cross-Section
- ! Industrial Water Supply Well
- ⊙ Study Well

Hydrogeologic Cross-Section Site X-4  
 PAPA Data Gaps  
 Sublette County, Wyoming



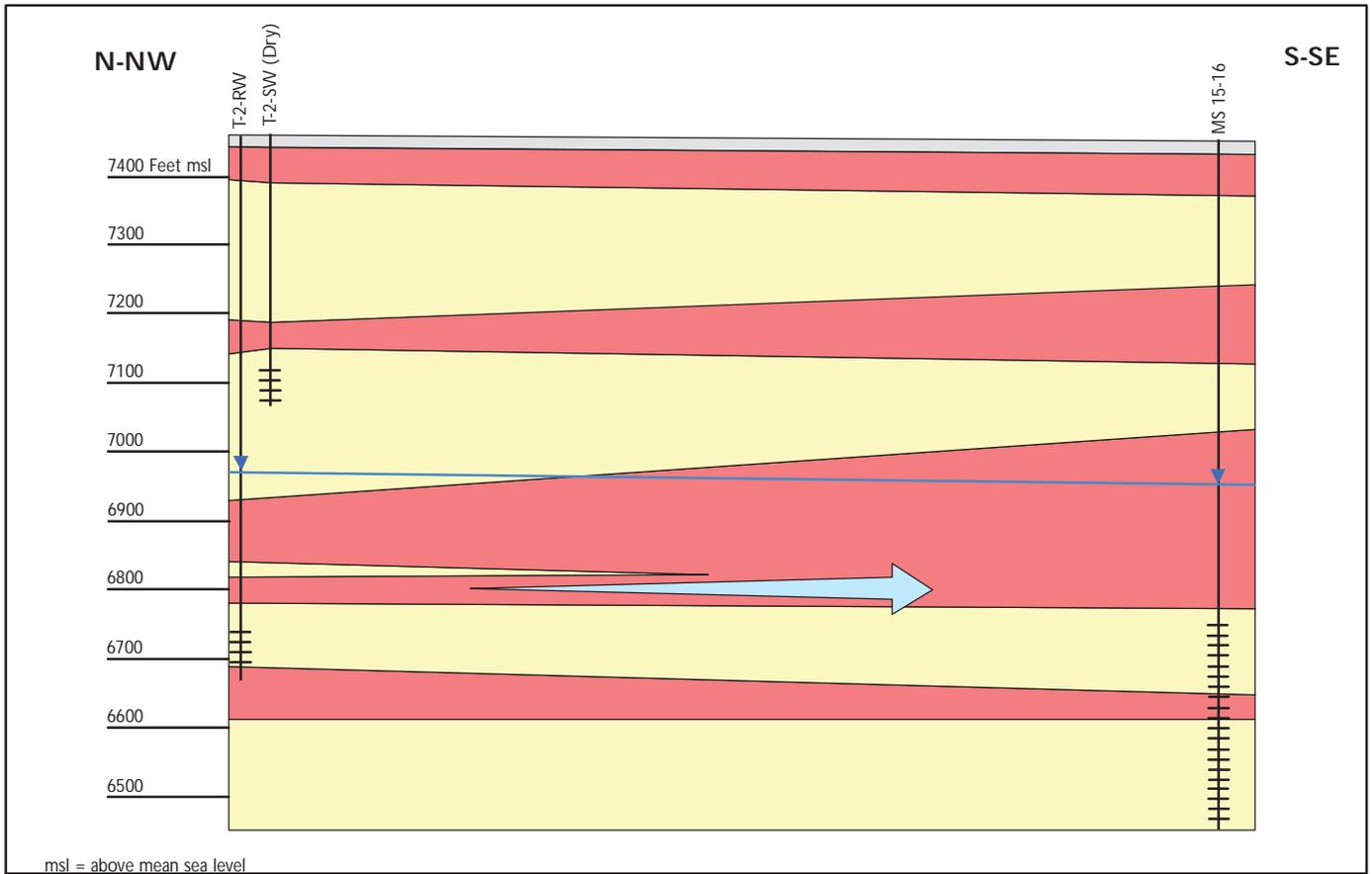


- # Groundwater Elevation in Study Well/Piezometer (Sept. 2010)
- Water Table in Alluvial System (Sept. 2010)
- ← Generalized Direction of Groundwater Flow
- ⊥ Study Well and Perforated Zone
- Generalized Lithology
  - Alluvium
  - Shale/Siltstone

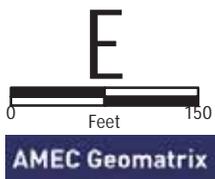


- Line of Cross-Section
- ⊙ Study Well/Piezometer
- ∕ Stream/River Survey Point

Hydrogeologic Cross-Section Site X-5 to X-6  
PAPA Data Gaps  
Sublette County, Wyoming

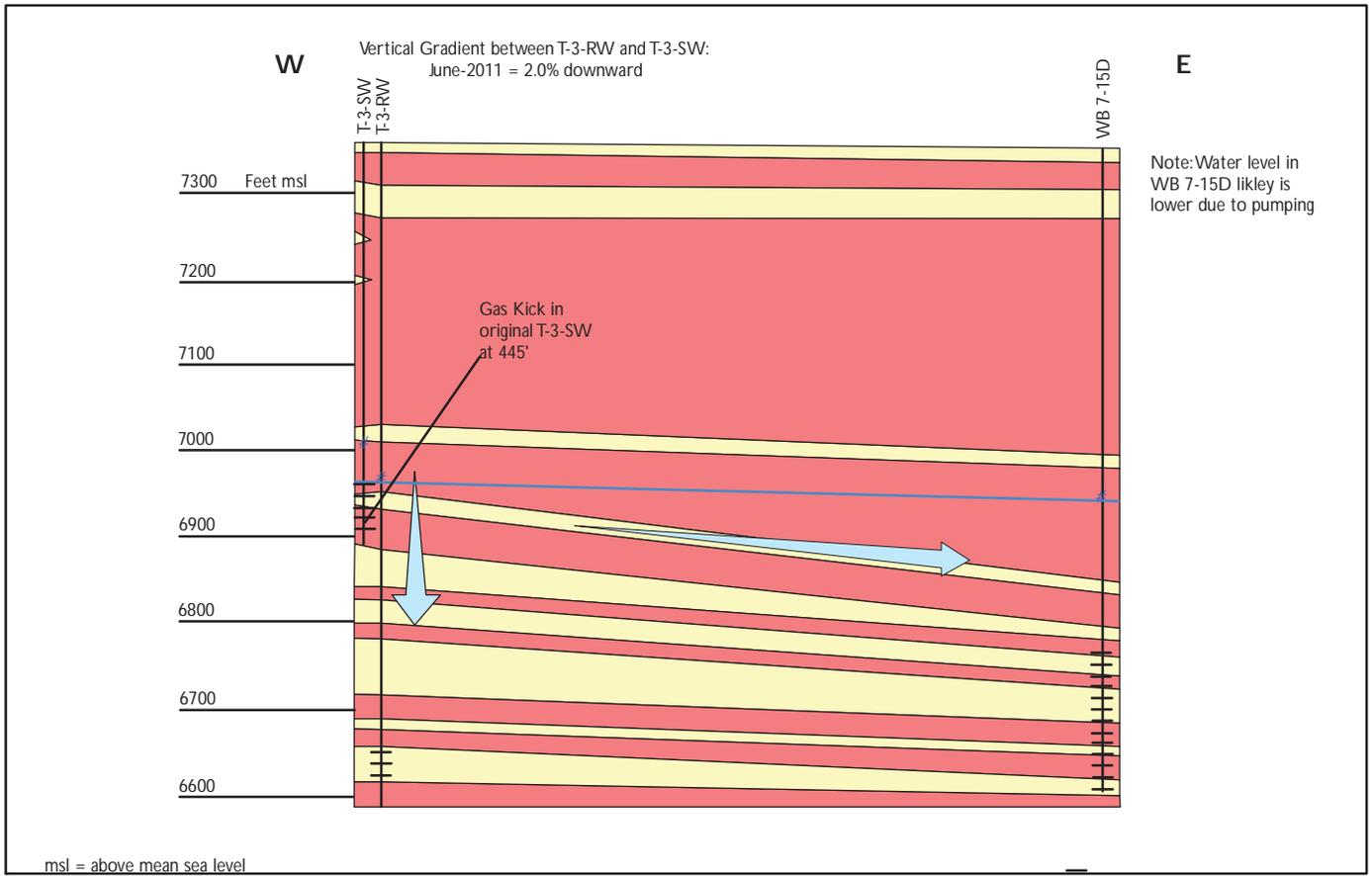


- Potentiometric Surface (Sept. 2010)
- ⇨ Generalized Direction of Groundwater Flow
- # Groundwater Elevation (Sept. 2010)
- ⊥ Well and Perforated Zone (T = Study Wells, all other wells are Industrial Water Supply Wells)
- Generalized Lithology
  - Gravel
  - Sandstone
  - Shale/Siltstone

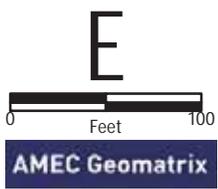


- | ⊥ | ⊕ Line of Cross-Section
- ! Industrial Water Supply Well
- ⊕ Study Well

Hydrogeologic Cross-Section Site T-2  
Mesa 15-16 Pad  
PAPA Data Gaps  
Sublette County, Wyoming

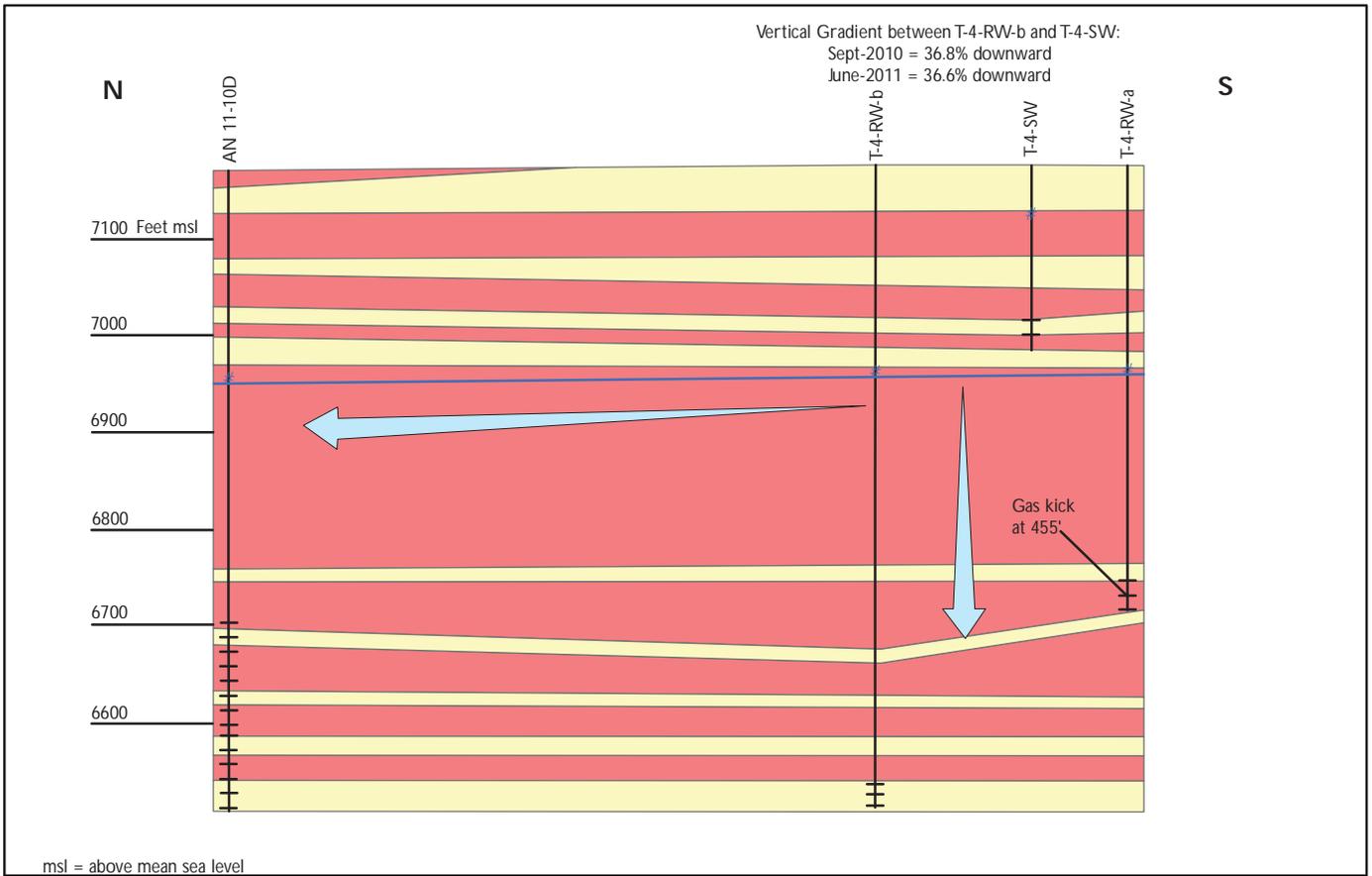


- # Groundwater Elevation (Sept. 2010)
- Potentiometric Surface (Sept. 2010)
- ↔ Generalized Direction of Groundwater Flow
- ⊥ Well and Perforated Zone (T- = Study Wells, all other wells are Industrial Water Supply Wells)
- Generalized Lithology
  - Yellow box: Sandstone
  - Red box: Shale/Siltstone

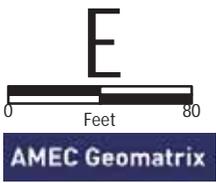


- Line of Cross-Section
- ⊥ Industrial Water Supply Well
- ⊕ Study Well

Hydrogeologic Cross-Section Site T-3  
Warbonnet 7-15 Pad  
PAPA Data Gaps  
Sublette County, Wyoming

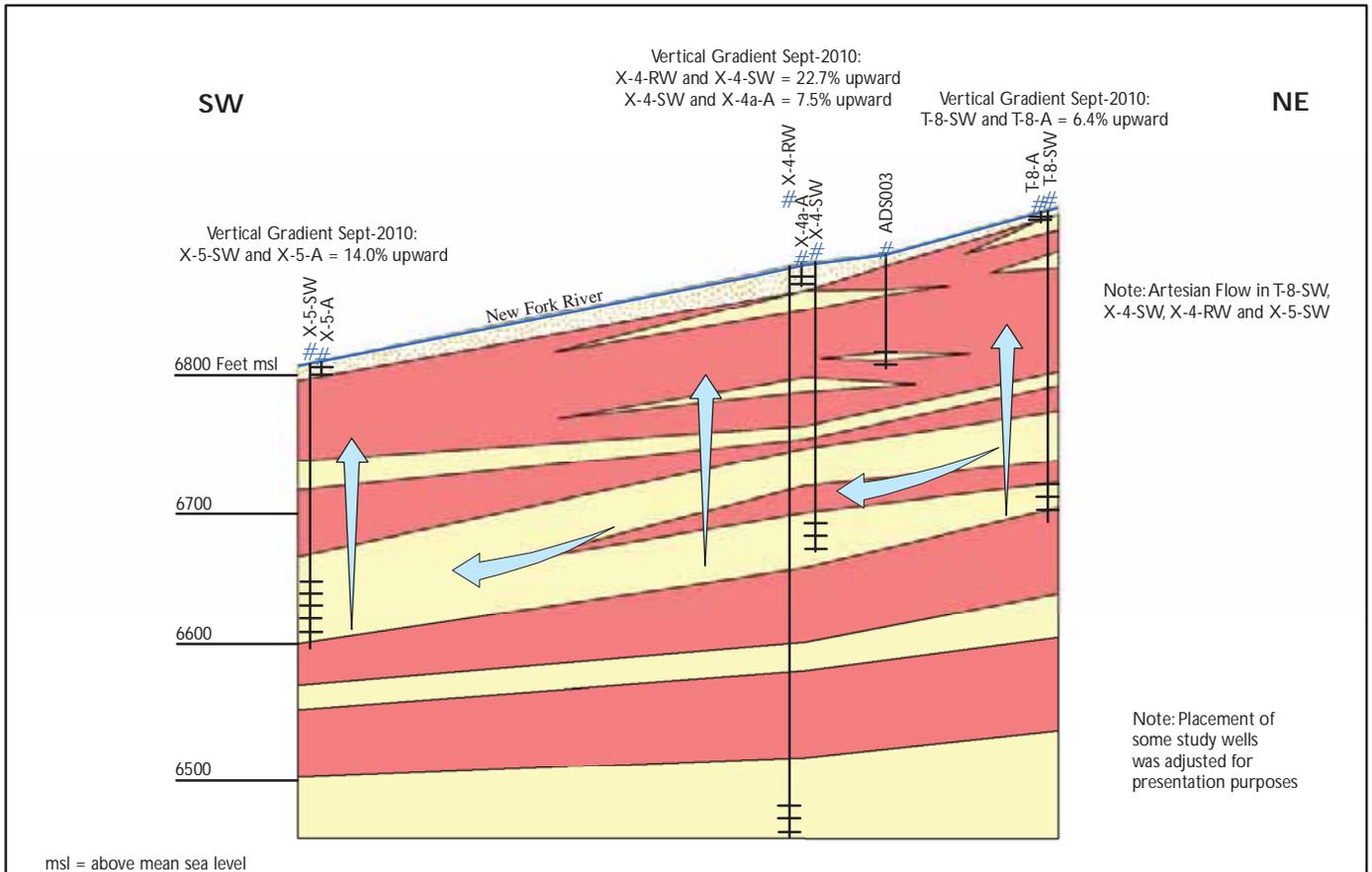


- # Groundwater Elevation (Sept. 2010)
- Potentiometric Surface (Sept. 2010)
- ← Generalized Direction of Groundwater Flow
- ⊥ Well and Perforated Zone (T = Study Wells, all other wells are Industrial Water Supply Wells)
- Generalized Lithology
  - Yellow box: Sandstone
  - Red box: Shale/Siltstone

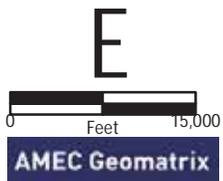


- Line of Cross-Section
- ⊥ Industrial Water Supply Well
- ⊙ Study Well

Hydrogeologic Cross-Section Site T-4  
 Antelope 11-10D  
 PAPA Data Gaps  
 Sublette County, Wyoming



- # Groundwater Elevation (Sept. 2010)
- Water Table in Alluvial System (Sept. 2010)
- ↔ Generalized Direction of Groundwater Flow
- Well and Perforated Zone (T- and X- = Study Wells, all other wells are Industrial Water Supply Wells)
- Generalized Lithology
  - Alluvium
  - Sandstone
  - Shale/Siltstone



- Line of Cross-Section
- ! Domestic Well
- Study Well
- ▭ PAPA Boundary

Hydrogeologic Conceptual Cross-Section  
 Site T-8 to X-5  
 PAPA Data Gaps  
 Sublette County, Wyoming