

SAWDF

Simsboro Aquifer Water Defense Fund



SLR Permit Applications

- 15,000 AFY
 - 61 wells in HUP 0330
 - Simsboro formation
 - All authorized uses in Milam & Burleson COs
 - 40 years
- 9,000 AFY
 - Up to 60 new wells
 - Simsboro & Hooper formations
 - Municipal, industrial, manufacturing, and commercial uses Milam & Burleson COs
 - 40 years

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Simsboro Aquifer Water Defense Fund



BRAZOS G
WATER PLANNING GROUP

Brazos
River Authority



2021 Brazos G Regional Water Plan

Volume I
Executive Summary and
Regional Water Plan

October 2020

HR

FREESE
NICHOLS

SUSAN ROTH

Table 5.4-1. Burleson County Surplus/(Shortage)

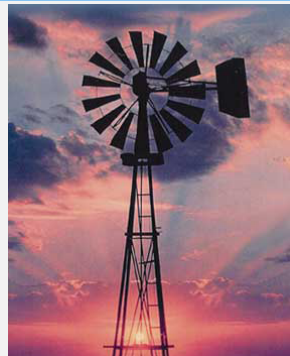
Water User Group	Surplus/(Shortage)		Comment
	2040 (acft/yr)	2070 (acft/yr)	
City of Caldwell	1,204	1,168	Projected surplus
Deanville WSC	226	218	Projected surplus
Milano WSC			See Milam County
City of Snook	180	149	Projected surplus
City of Somerville	576	479	Projected surplus
Southwest Milam WSC			See Milam County
County-Other	95	2	Projected surplus
Manufacturing	(6)	(6)	Projected shortage - see plan below.
Steam-Electric	0	0	No projected demand
Mining	506	1,590	Projected surplus
Irrigation	(347)	(347)	Projected shortage - see plan below.
Livestock	0	0	No projected surplus or shortage

2,434

3,253

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Table 5.25-1. Milam County Surplus/(Shortage)

Water User Group	Surplus/(Shortage)		Comment
	2040 (acft/yr)	2070 (acft/yr)	
Bell-Milam Falls WSC			See Bell County
City of Cameron ¹	(1,623)	(1,794)	Projected shortage - see plan below.
Milano WSC	37	25	Projected surplus
North Milam WSC	114	140	Projected surplus - see plan below.
City of Rockdale	(613)	(609)	Projected shortage - see plan below.
Salem Elm Ridge WSC	285	269	Projected surplus
Southwest Milam WSC	(419)	(619)	Projected shortage - see plan below.
City of Thorndale	12	(10)	Projected shortage - see plan below.
County-Other	21	4	Projected surplus
Manufacturing	1	1	Projected surplus
Steam-Electric	(32,254)	(32,254)	Projected shortage – see plan below
Mining	47	57	Projected surplus
Irrigation	(205)	93	Projected surplus (shortage only 2030 & 2040) - see plan below.

(34,795)

(34,693)

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Table 5.25-1. Milam County Surplus/(Shortage)

	Surplus/(Shortage)	
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Based on the available supplies, Milam County Steam-Electric is projected to have surpluses throughout the planning period...

Power generation has ceased at the facility associated with the Milam County Steam- Electric... the demands for Milam County Steam-Electric use will not be met.

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County-Other	21	4	Projected surplus
Manufacturing	1	1	Projected surplus
Steam-Electric	(32,254)	(32,254)	Projected shortage – see plan below
Mining	47	57	Projected surplus
Irrigation	(205)	93	Projected surplus (shortage only 2030 & 2040) - see plan below.

(2,545)

(2,443)

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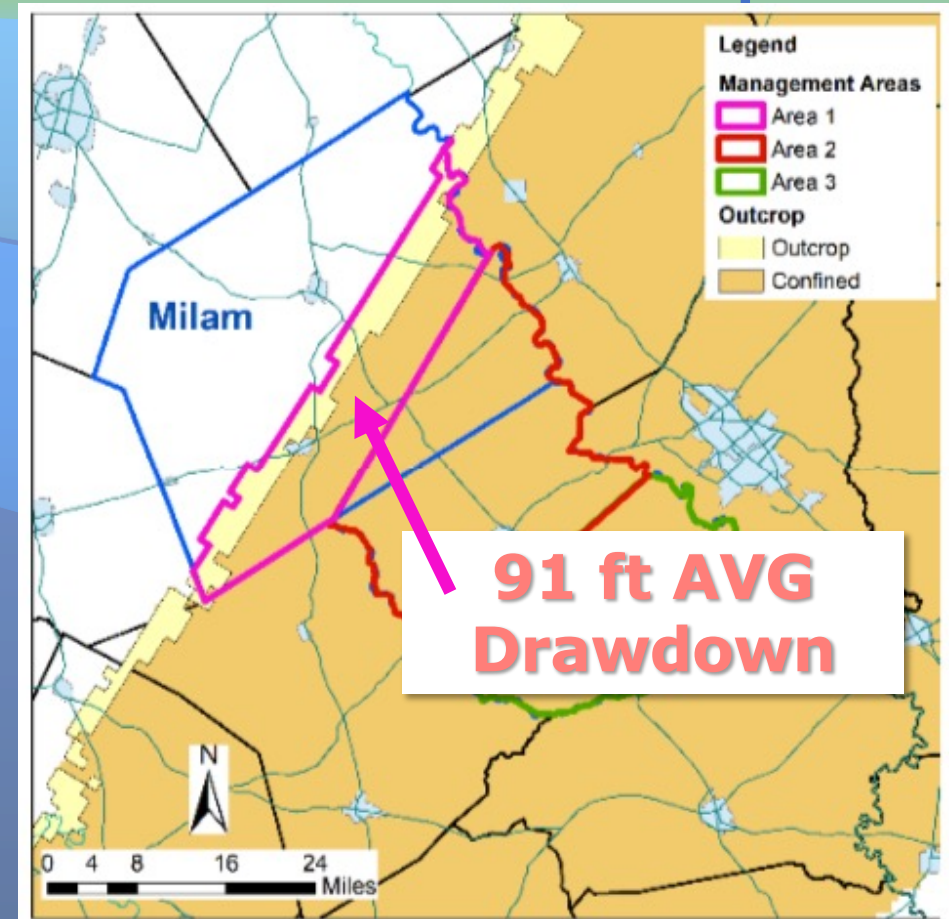
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Desired Future Conditions [DFCs]

Simsboro Management Zone and the three Management Areas that comprise it:

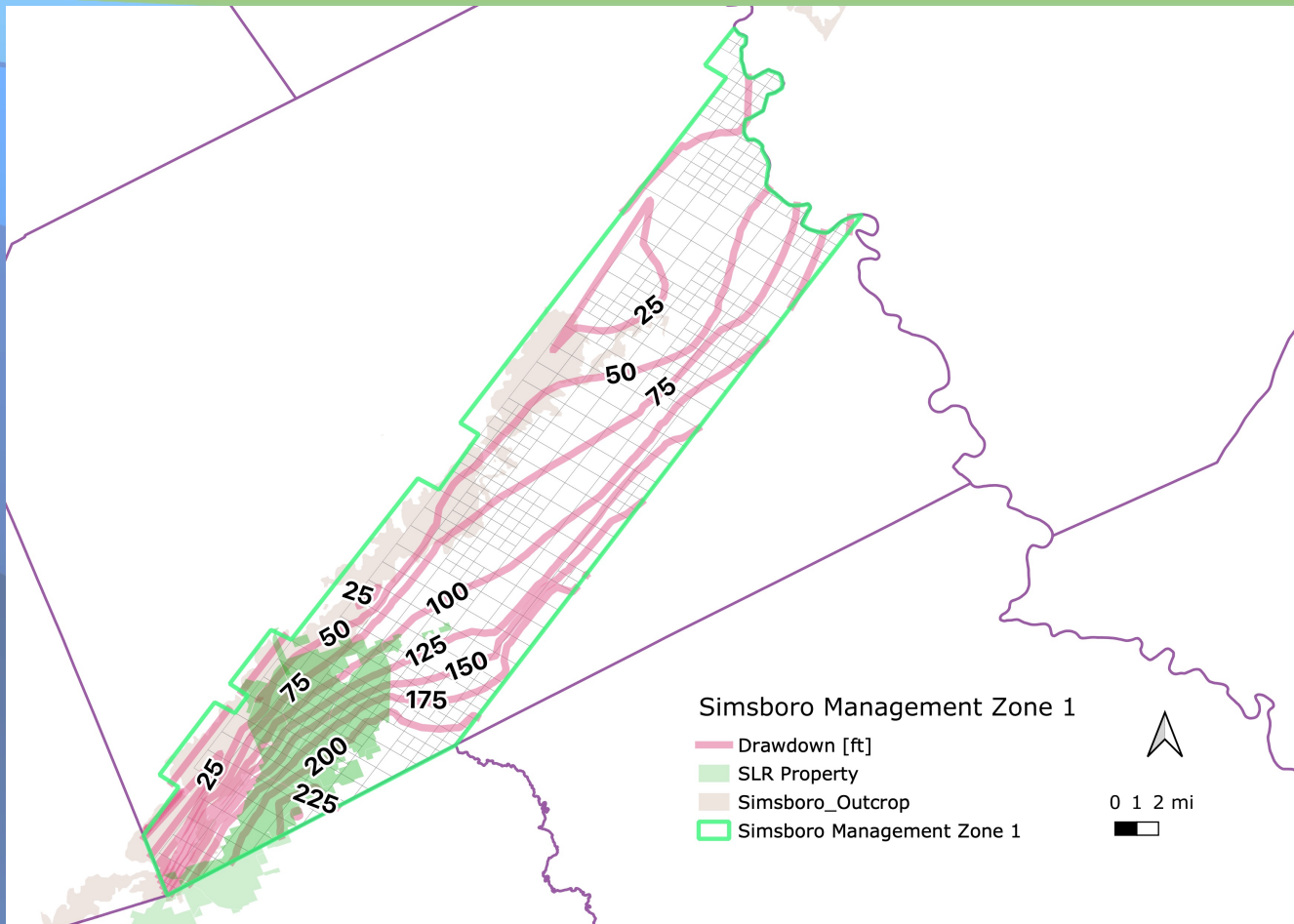
- Simsboro Management Area 1,
- Simsboro Management Area 2., and
- Simsboro Management Area 3

Aquifer	Average Drawdown Measured from January 2010 to December 2070	
	Management Area 1	Management Area 2
Sparta	28	N/A
Queen City	19	N/A
Carrizo	75	175
Calvert Bluff	88	223
Simsboro	91	335
Hooper	210	N/A



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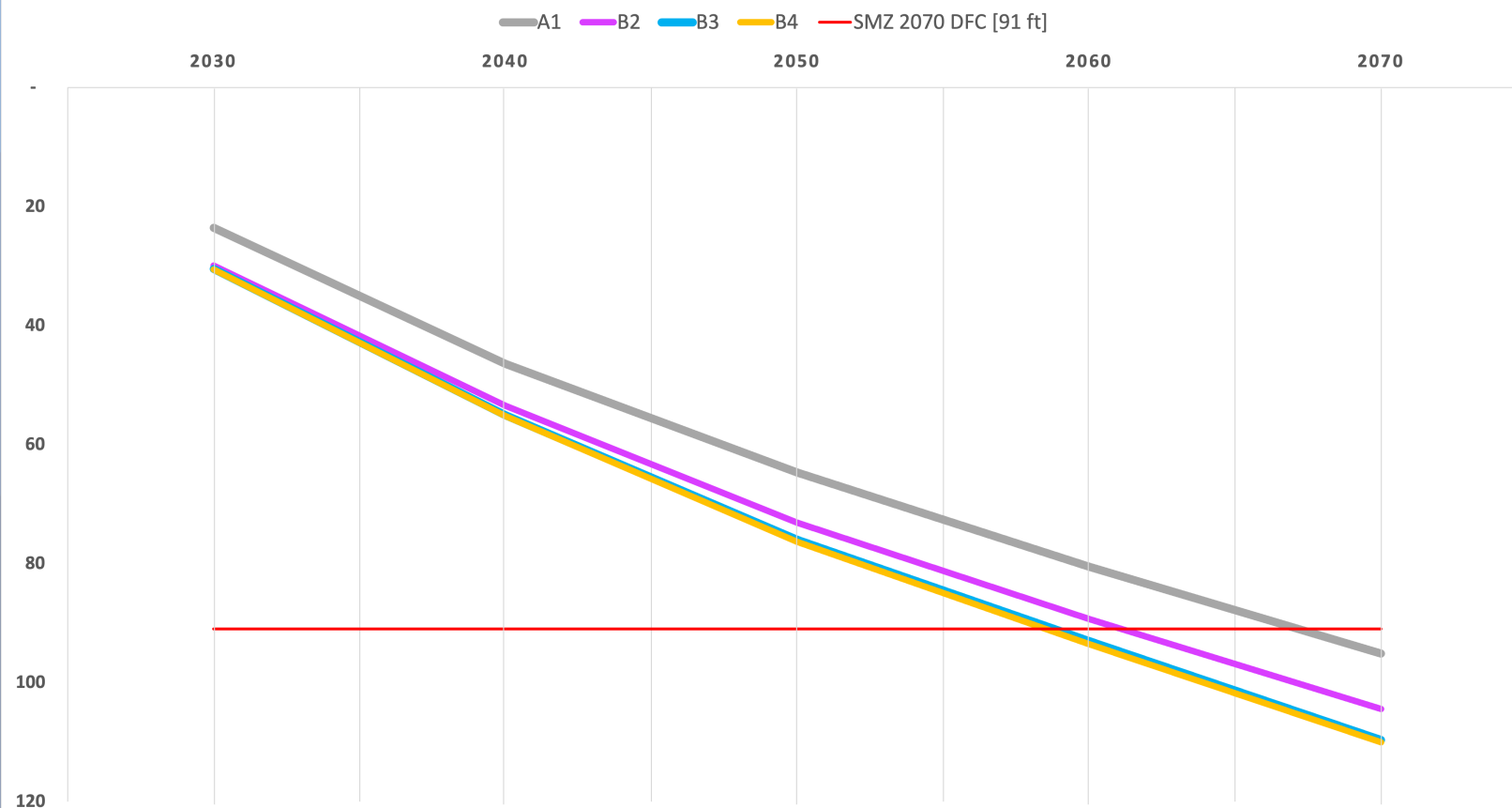
GIS software can
Average of all
the GAM cells
in Simsboro
Management Zone 1

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SIMSBORO MANAGEMENT ZONE 1 / AVERAGE DRAWDOWN [FT] / A-1, B-2, B-3, B-4





2025 POSGCD to implement 5-Year Permit Reviews

Unreasonable Impacts

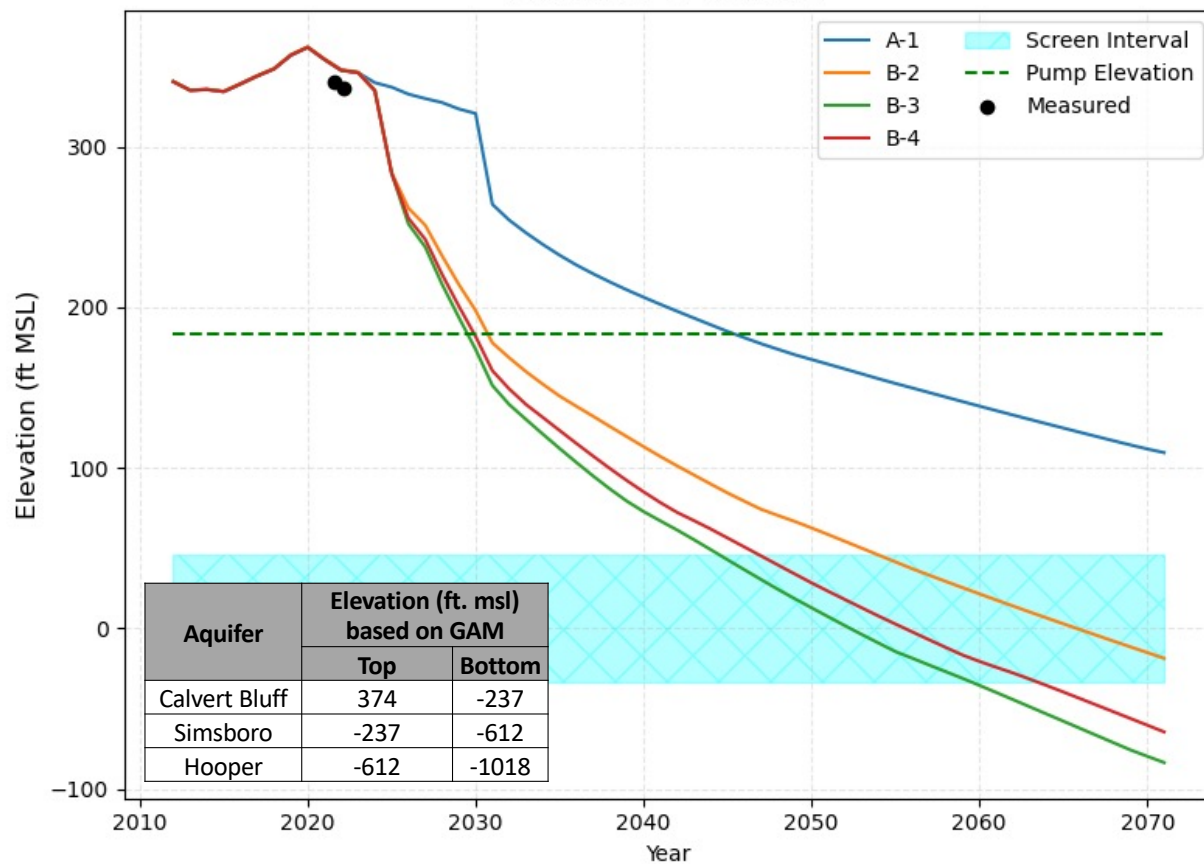
- > 30 ft reduction & > 25% reduction in the saturated thickness of the aquifer
- > 100 ft reduction & > 40% reduction in the pressure head above the top of the aquifer

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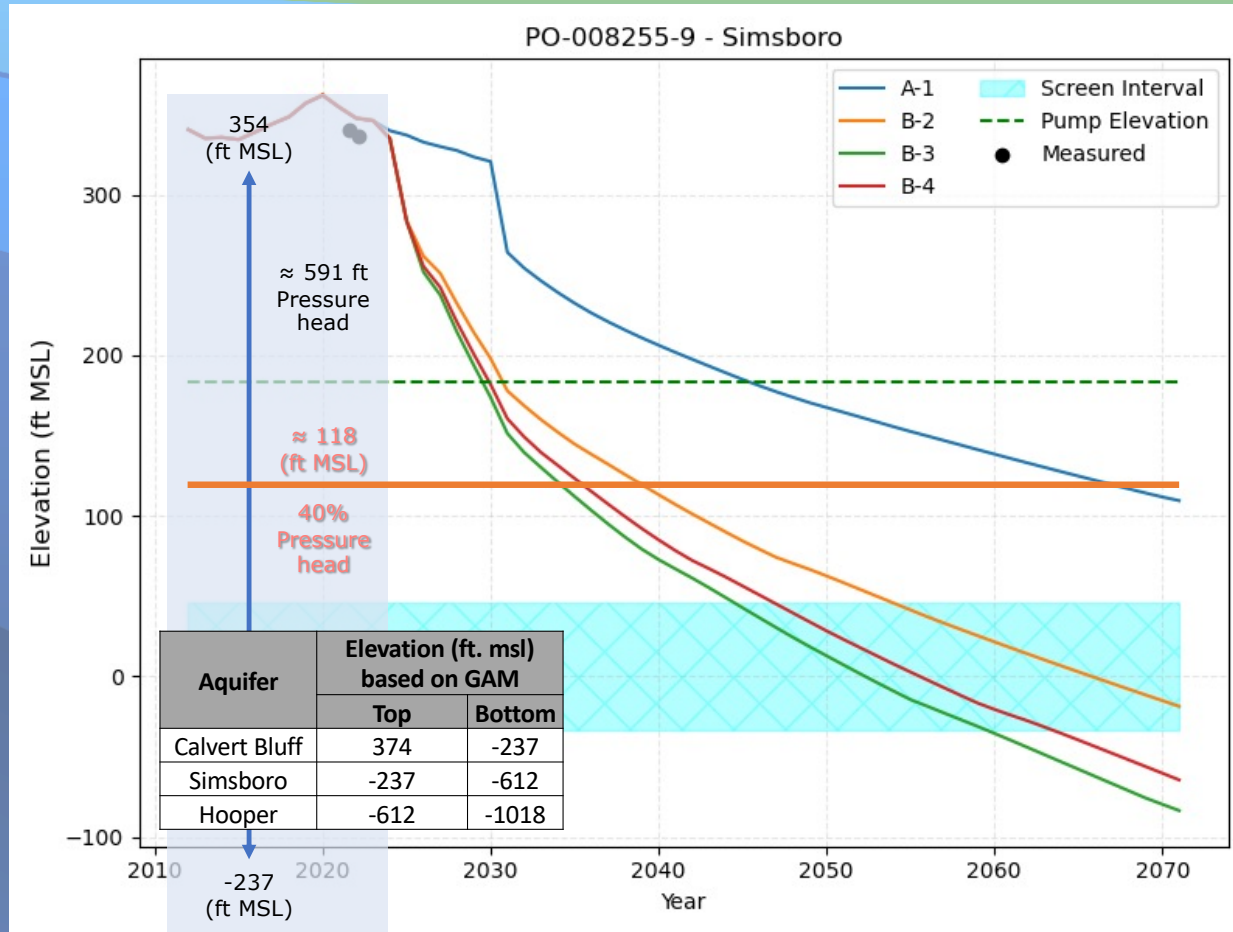


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100 ft & > 40% reduction in the pressure head above the top of the aquifer



2025 POSGCD to implement 5-Year Permit Reviews

Unreasonable Impacts

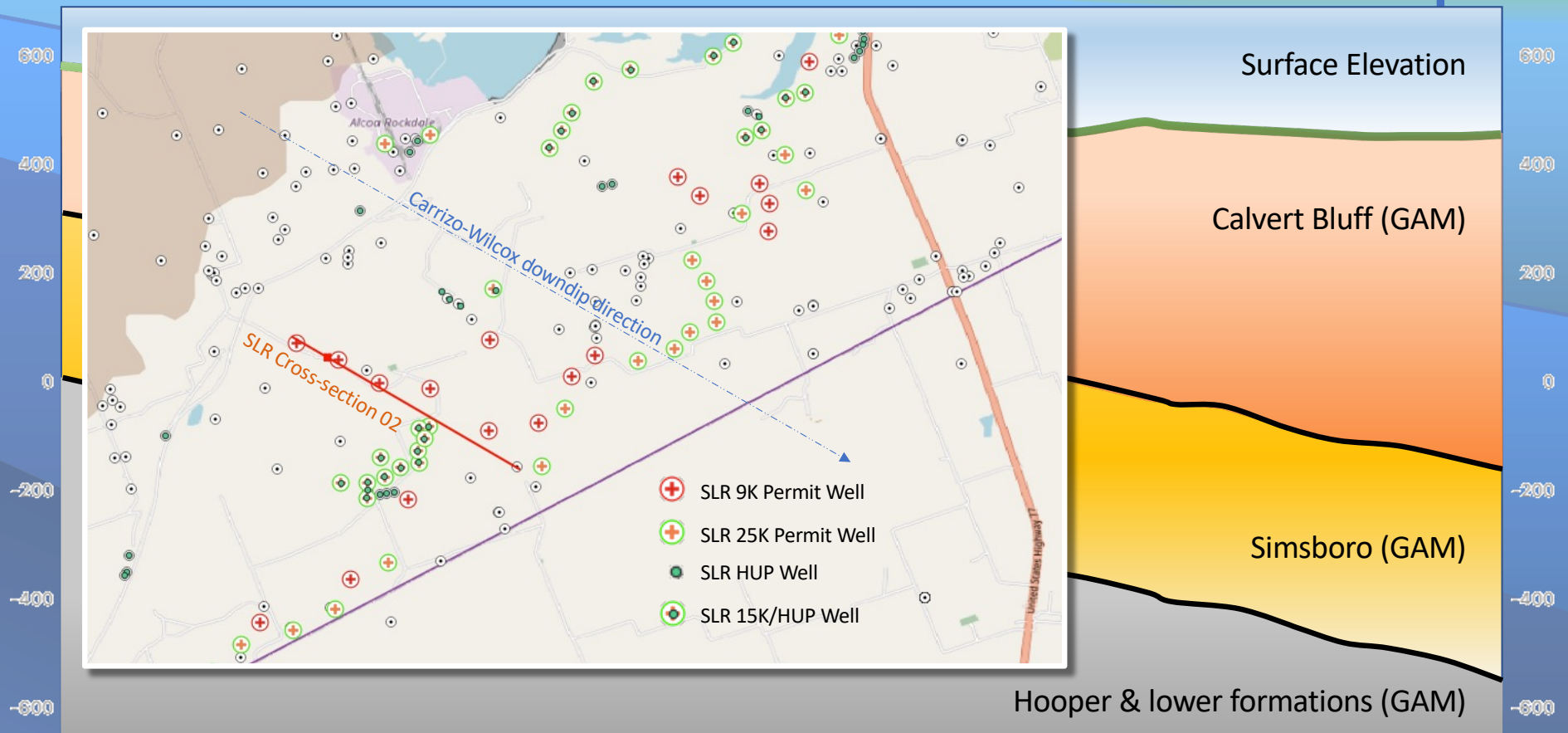
- > 30 ft reduction & > 25% reduction in the saturated thickness of the aquifer
- > 100 ft reduction & > 40% reduction in the pressure head above the top of the aquifer

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SLR Cross-section 02

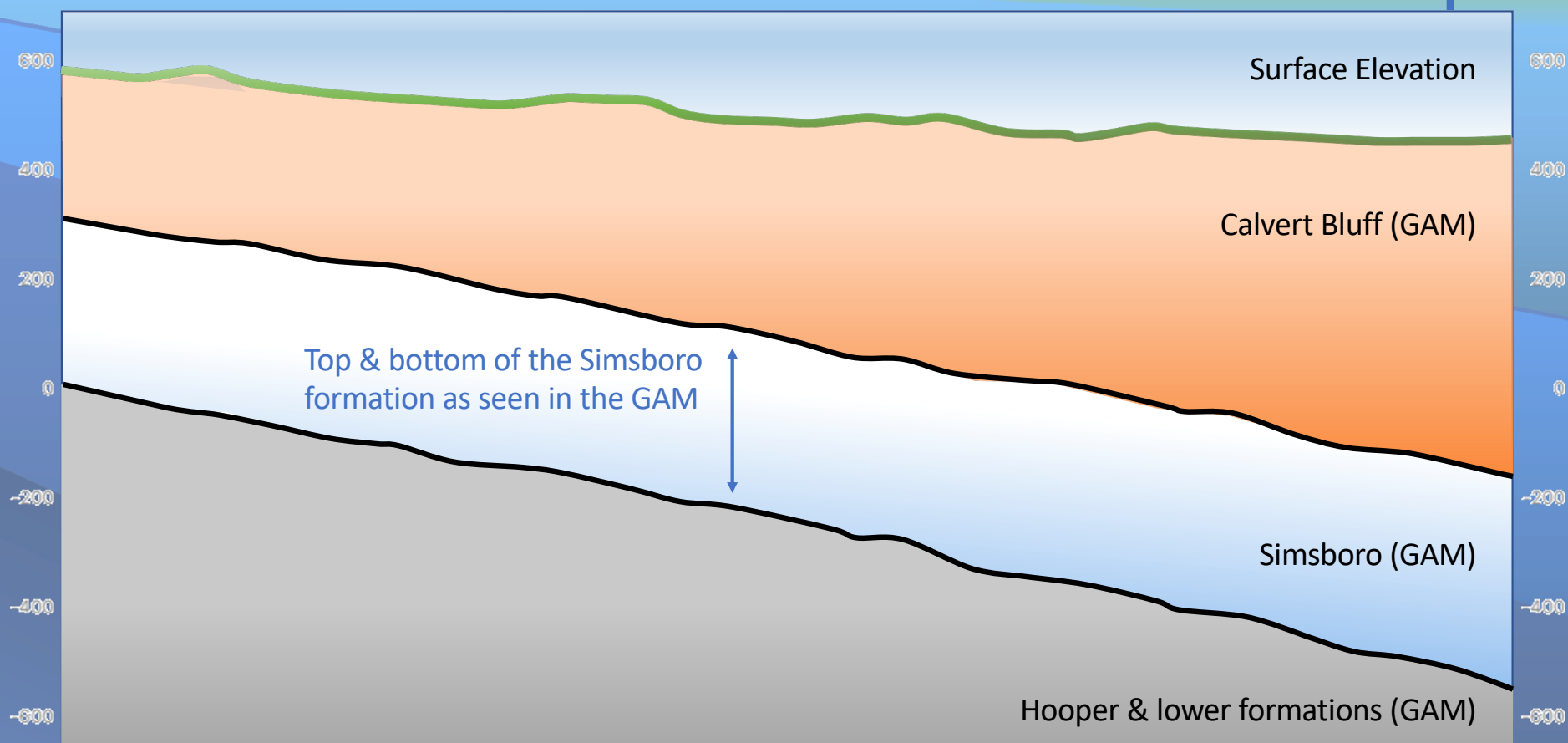


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SLR Cross-section 02

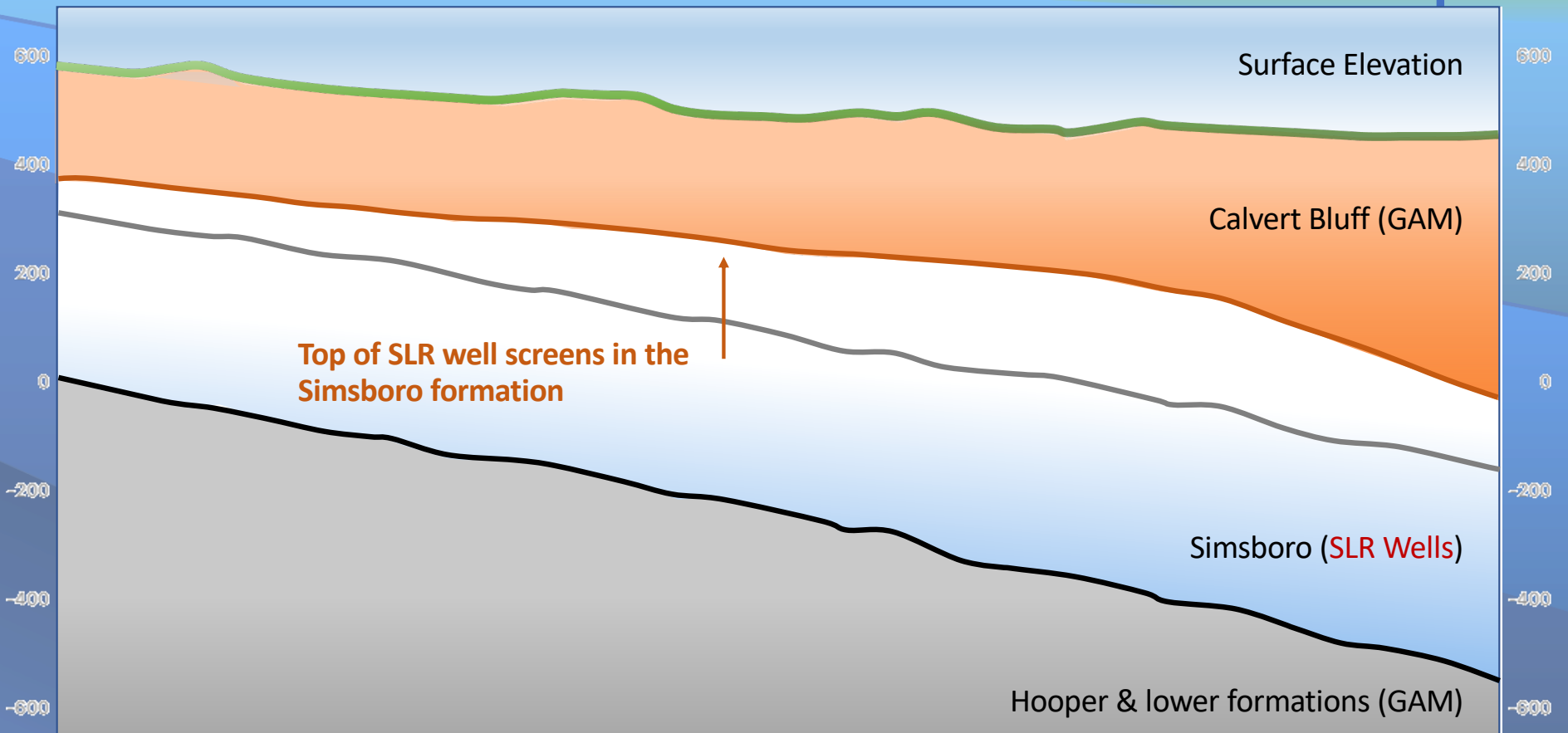


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SLR Cross-section 02

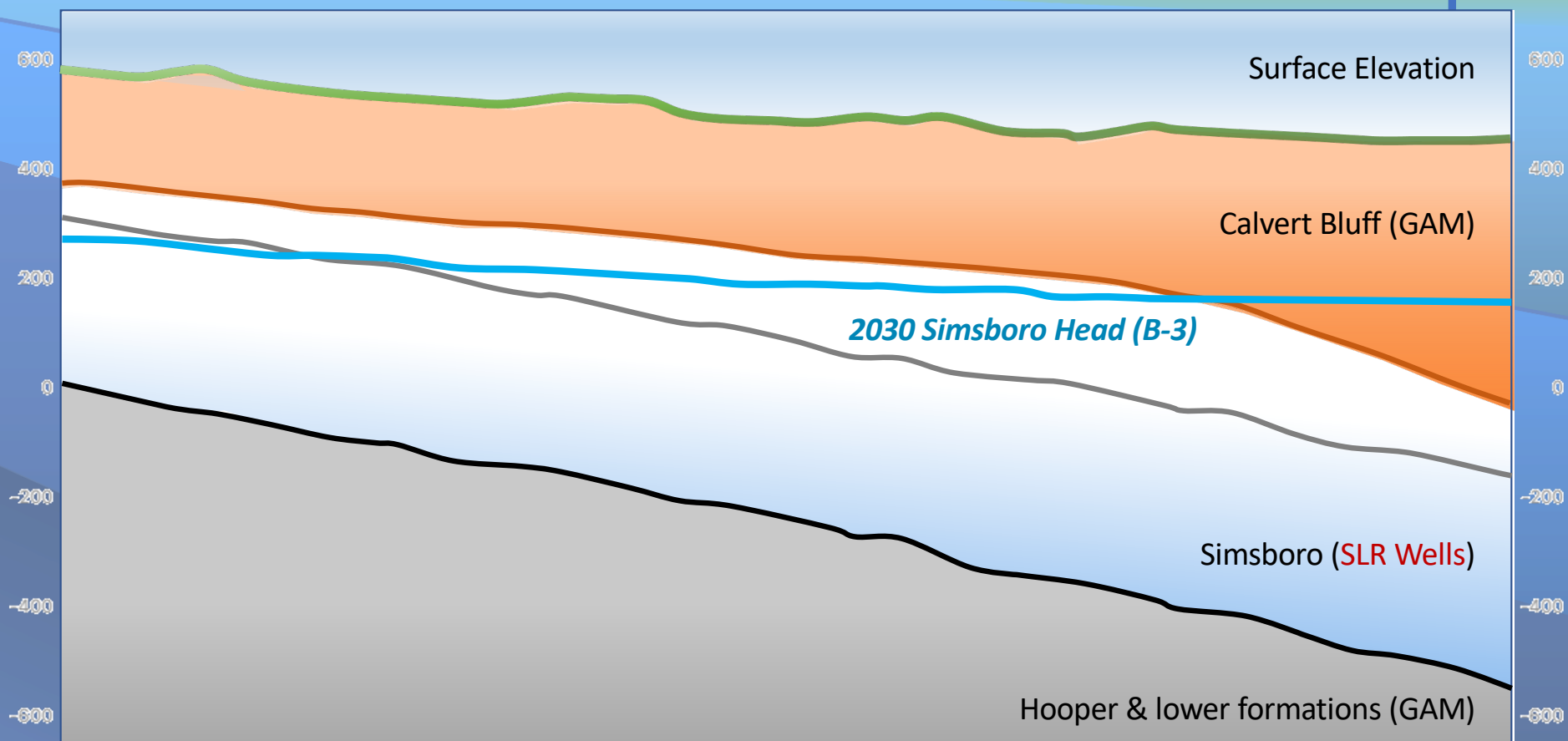


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SLR Cross-section 02

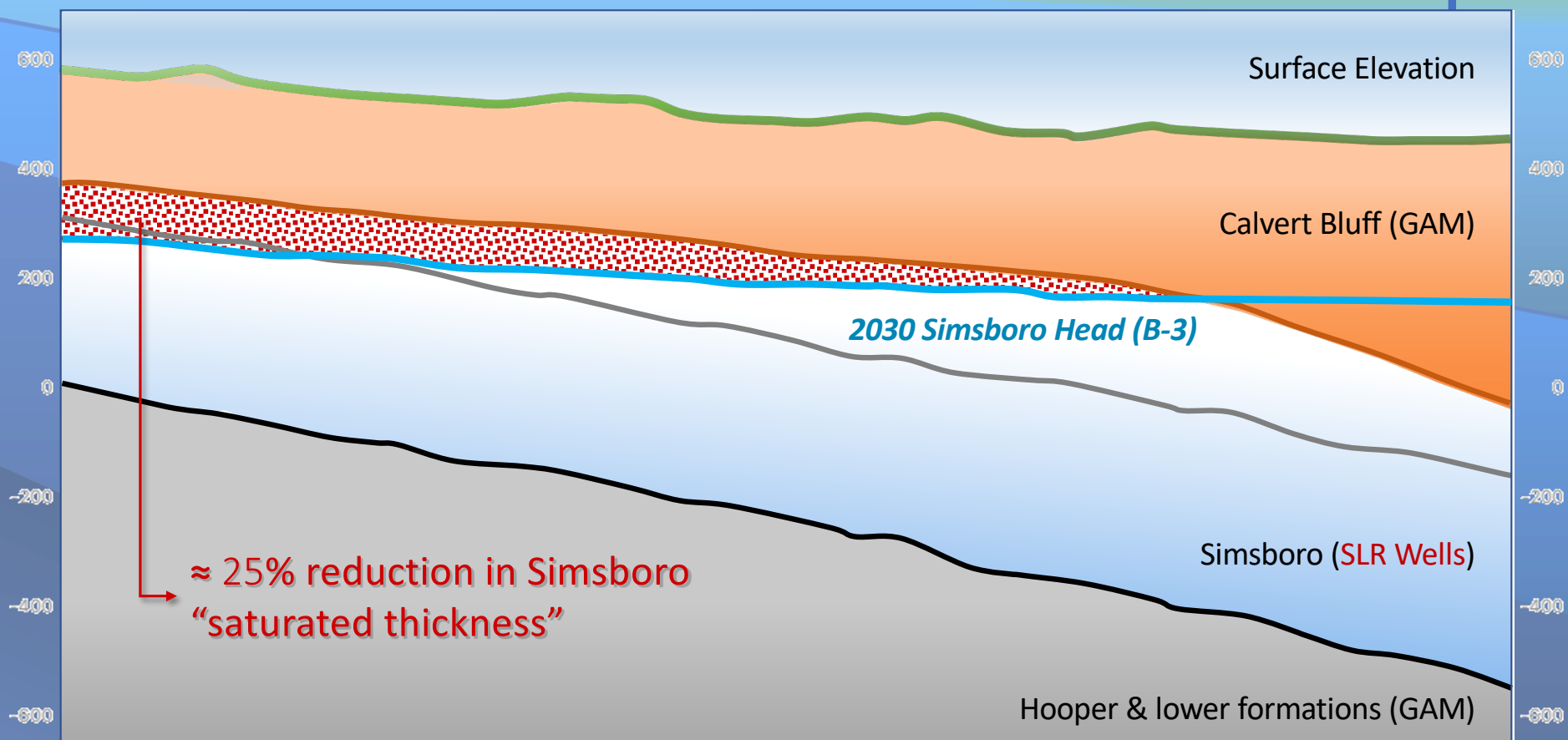


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SLR Cross-section 02

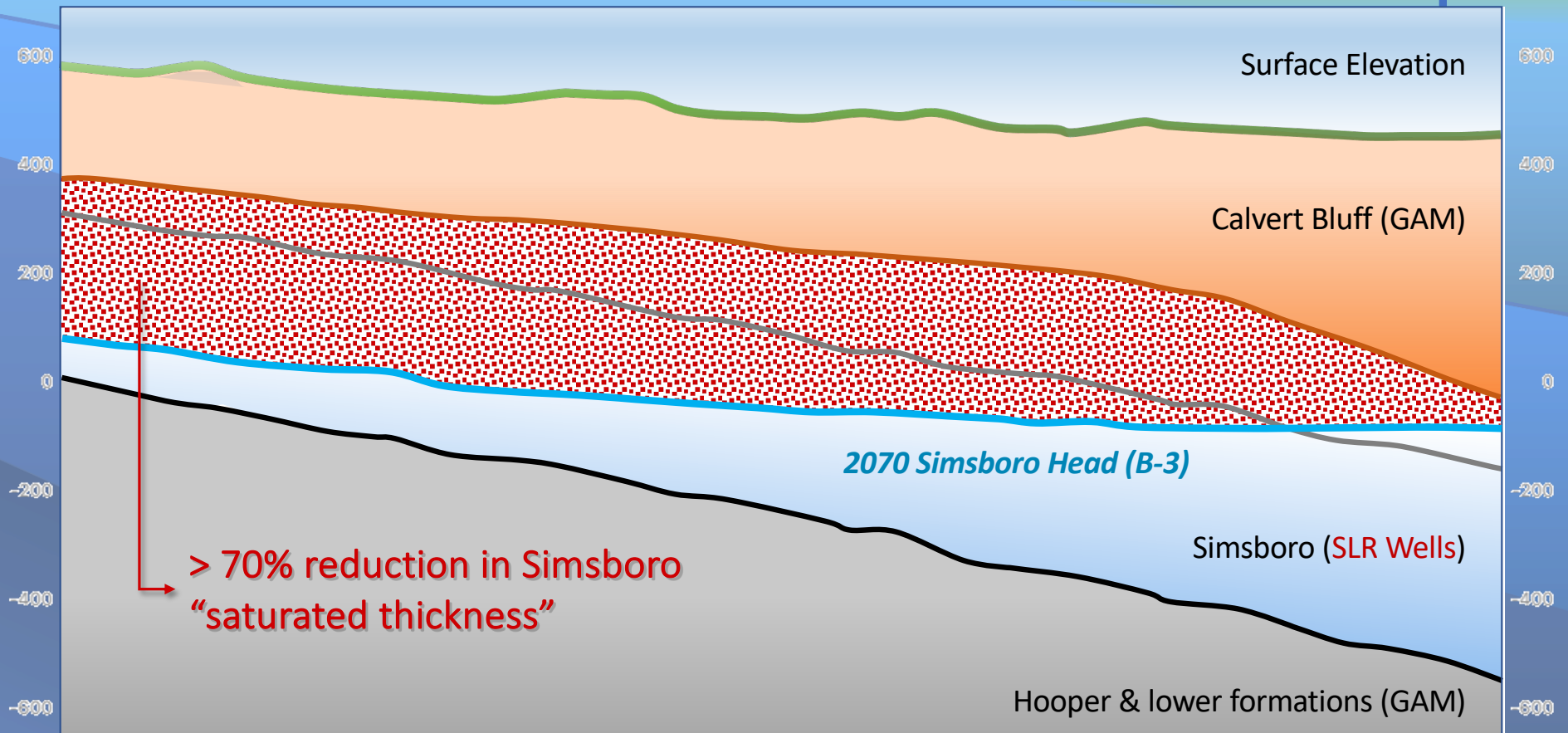


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SLR Cross-section 02





SLR Permit Applications

- 15,000 AFY
 - Extending HUP 0330 past 2038
 - Exceeds DFC in Simsboro MZ 1
 - Unreasonable Impacts in drawdown and saturated thickness
- 9,000 AFY
 - Exceeds DFC in Simsboro MZ 1
 - Unreasonable Impacts in drawdown and saturated thickness
- GAM is NOT ready to properly evaluate these applications