

RMS Wells: Minimum Threshold Water Level Based on Surrounding Domestic Well Completions

Be sure and look at the hydrograph for each well as you consider these percentile levels

These values are proposed Minimum Threshold water level **elevations** for each proposed RMS Well, based on the reported depths of surrounding domestic wells. SHAC will need to provide guidance on which statistical percentile to choose as the basis for these values.

These values show how many domestic wells are shallower than the respective percentile depth. This is the number of wells that are "vulnerable" to experiencing water levels that drop below the bottom of the well.

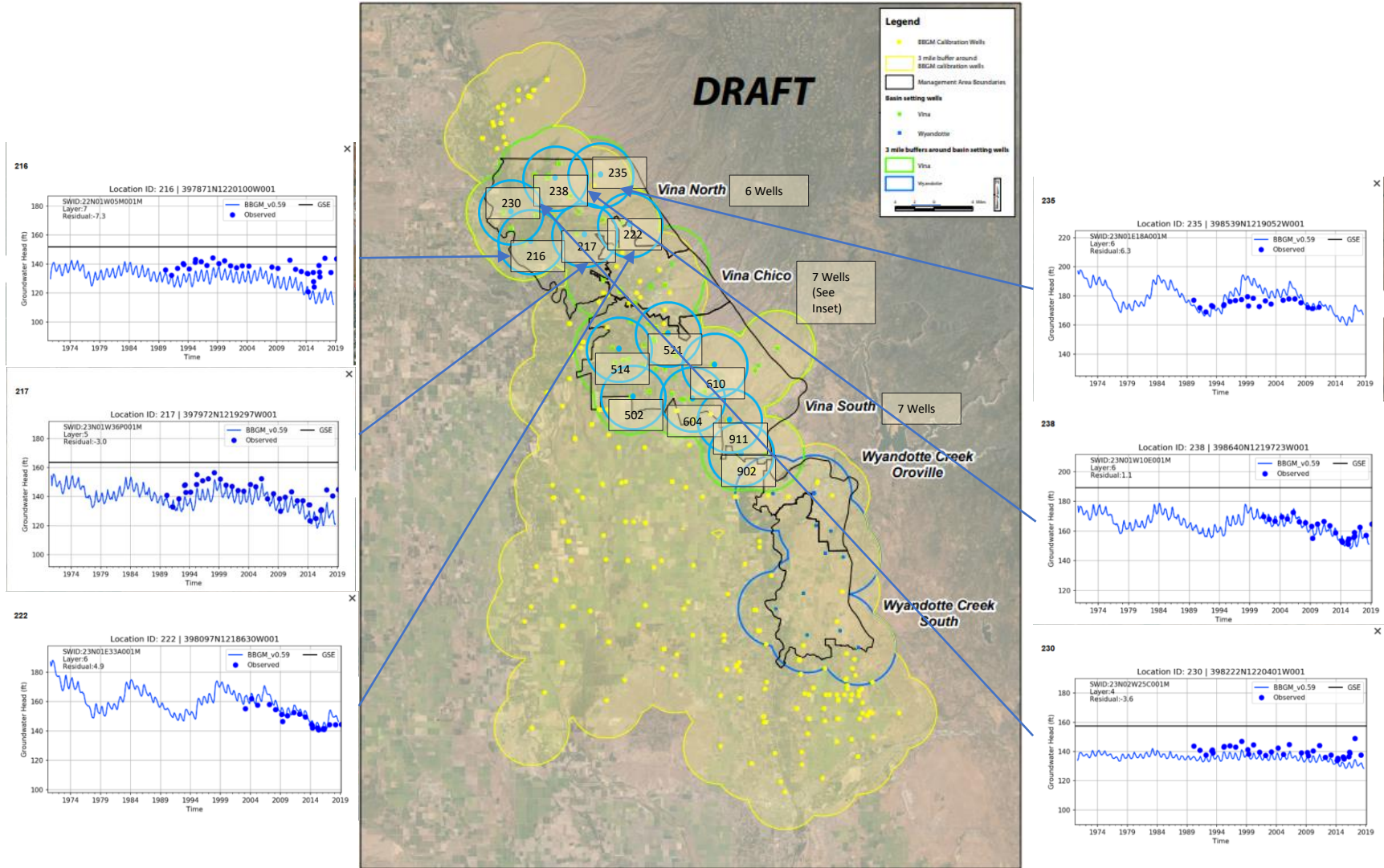
RMS Well Identifying Information

Mgmt Area	RMS Well Number	Is well in Draft Chapter 5 Table?	Total # of Domestic Wells in 3 Mile Radius	Median Well Depth	15th Percentile Well Depth	10th Percentile Well Depth	5th Percentile Well Depth	# of Wells shallower than 15th Percentile	# of Wells shallower than 10th Percentile	# of Wells shallower than 5th Percentile
Vina North	23N02W25C001M	Yes	13	70.8	85.8	85.8	102.7	2	1	1
Vina North	23N01W10E001M	Yes	131	61.9	100.2	108.0	115.2	20	13	7
Vina North	23N01E18A001M	No	443	61.8	95.3	108.0	134.0	66	44	22
Vina North	22N01W5M001	No	113	8.5	51.9	70.2	86.7	17	11	6
Vina North	23N01W36P001	No	680	46.0	77.3	86.7	100.2	102	68	34
Vina North	23N01E33A001	Yes	1039	55.0	89.0	104.7	130.6	156	104	52
Total "Vulnerable" Wells								363	242	121
Vina South	21N01E21C001	No	547	29.3	72.3	79.3	87.8	82	55	27
Vina South	21N02E18C	Yes	1078	53.6	102.2	115.2	134.2	162	108	54
Vina South	20N01E10C002M	Yes	241	-0.5	50.8	61.8	74.8	36	24	12
Vina South	20N03E31M001M	No	14	5.6	21.5	51.9	72.2	2	1	1
Vina South	20N02E24C001M	Yes	23	8.9	51.9	57.2	72.2	3	2	1
Vina South	20N02E09L001M	Yes	327	28.6	72.2	79.8	92.9	49	33	16
Vina South	21N02E26E005M	Yes	357	43.6	84.5	94.8	113.8	54	36	18
Total "Vulnerable" Wells								388	259	129
Vina Chico ¹	CWSCH001	No	1512	59.3	92.8	99.9	109.4	226.8	151.2	75.6
Vina Chico	CWSCH001b	Yes								
Vina Chico	CWSCH002	Yes								
Vina Chico	CWSCH003	Yes								
Vina Chico	CWSCH007	Yes								
Vina Chico	21N01E08K002M	No								
Vina Chico	22N01E28J005M	Yes								
Total "Vulnerable" Wells								227	151	76
Grand Total "Vulnerable" Wells								978	652	326

Notes

- Well Statistics for Vina Chico calculated for entire Management Area and applied to all Representative Monitoring Wells.

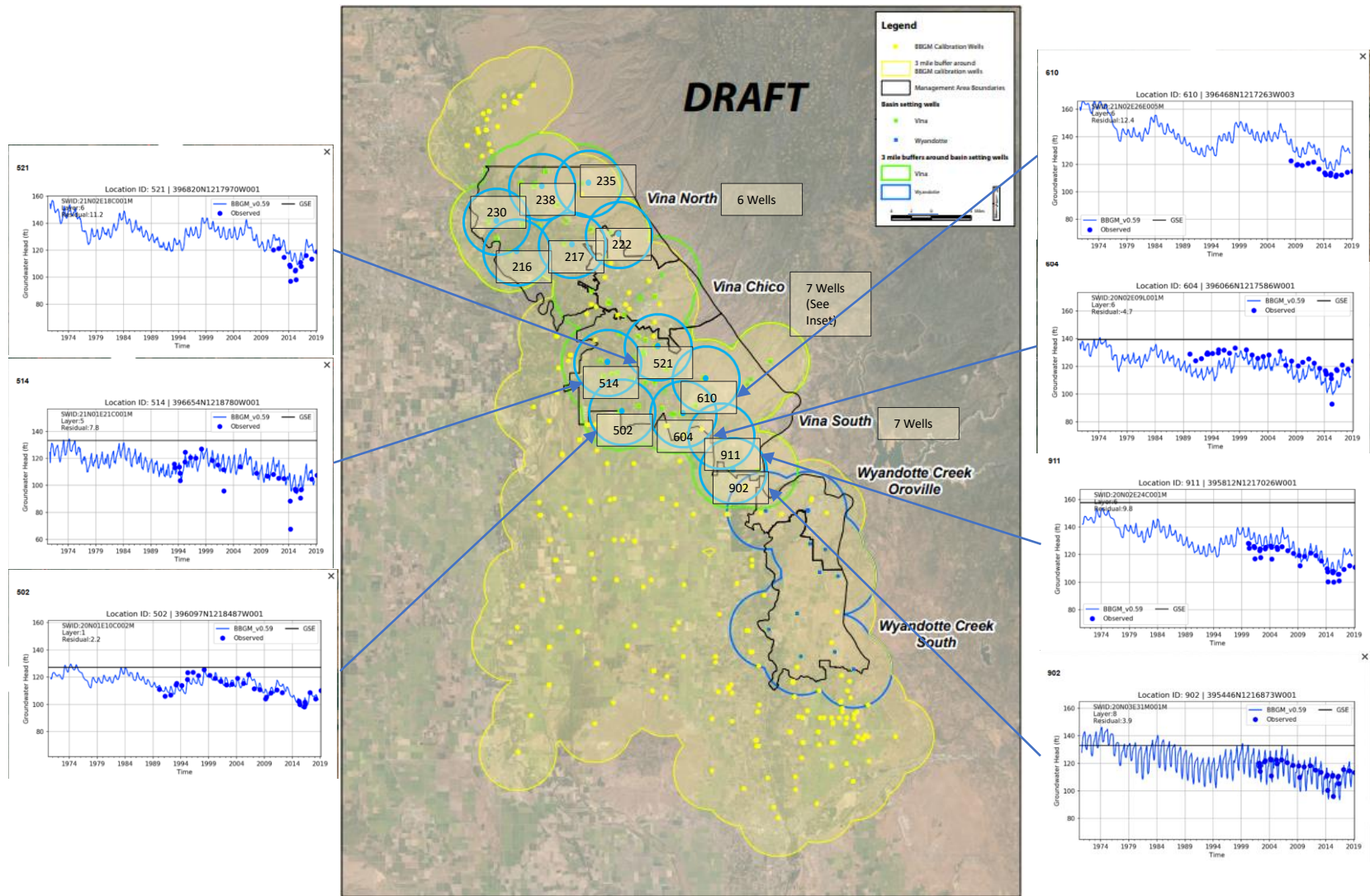
Map showing proposed RMS well locations and 3 mile radius for evaluating surrounding domestic wells.



Hydrographs are for historic model calibration period only and show observed data (blue dots) and model prediction (blue line)

Number in the black triangle corresponds to the "hydrograph number" in the upper right corner of each hydrograph

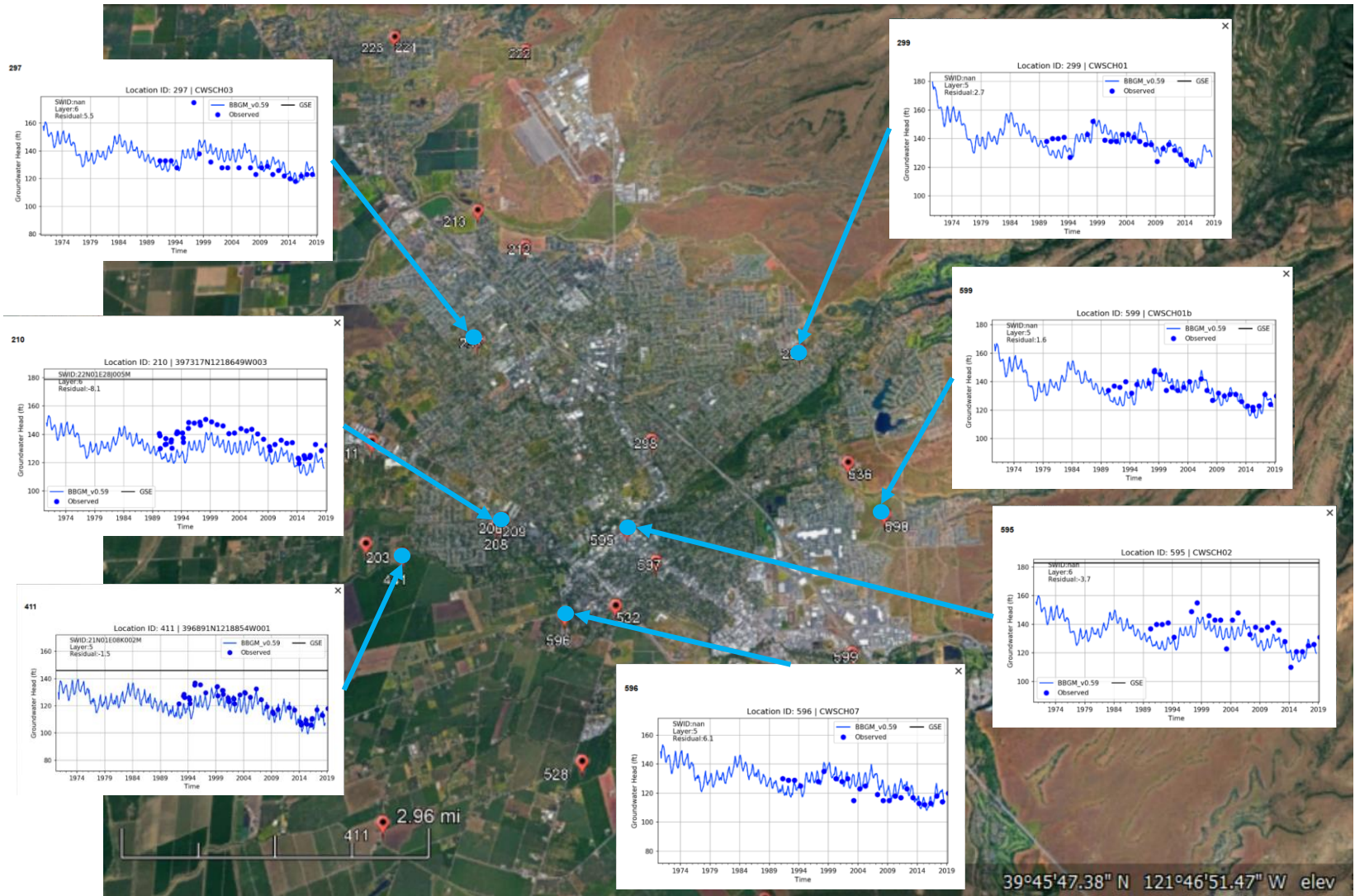
Map showing proposed RMS well locations and 3 mile radius for evaluating surrounding domestic wells.



Hydrographs are for historic model calibration period only and show observed data (blue dots) and model prediction (blue line)

Number in the black triangle corresponds to the "hydrograph number" in the upper right corner of each hydrograph

Map showing proposed RMS well locations and 3 mile radius for evaluating surrounding domestic wells.

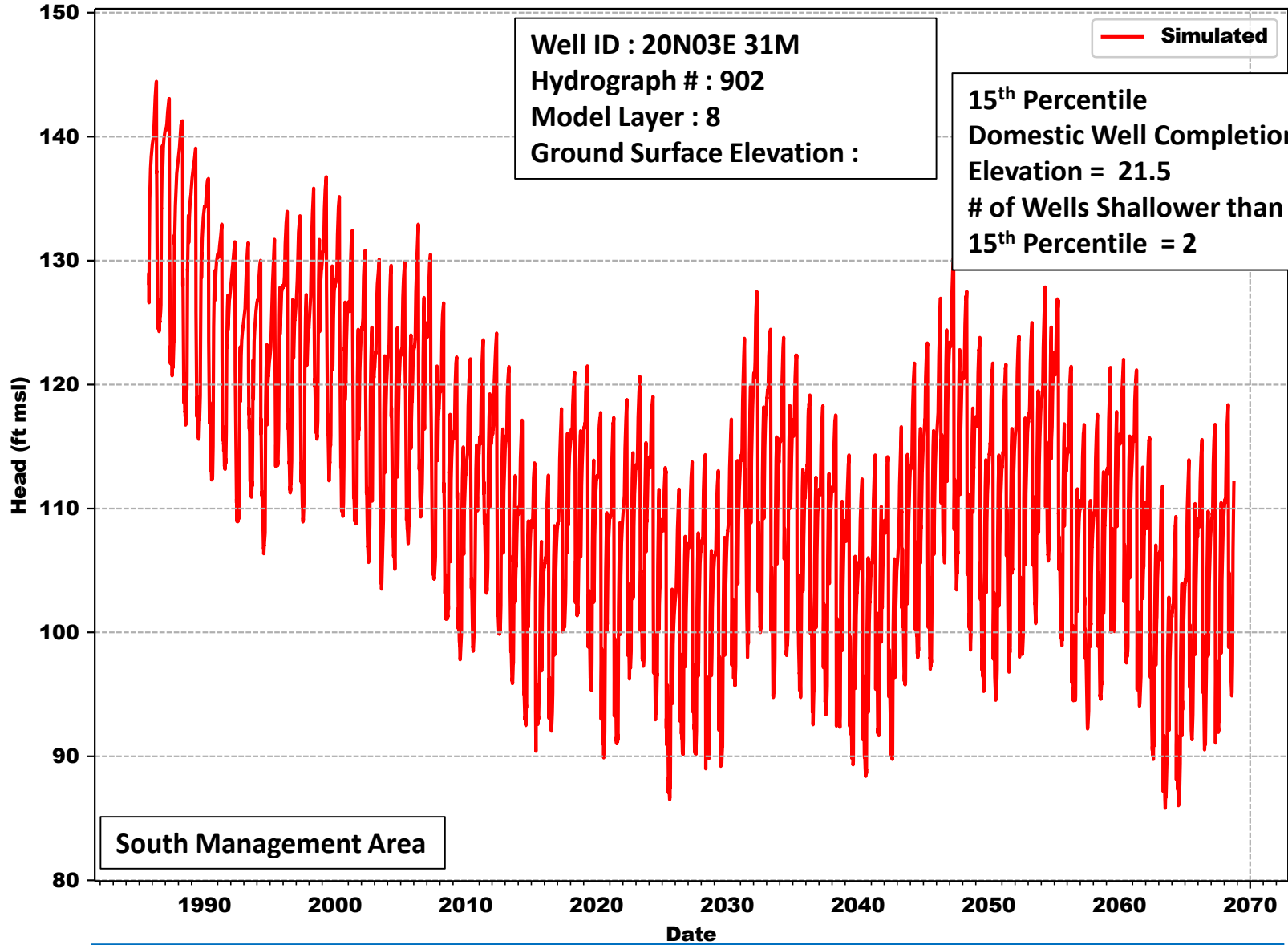


Hydrographs are for historic model calibration period only and show observed data (blue dots) and model prediction (blue line)

Number in the black triangle corresponds to the "hydrograph number" in the upper right corner of each hydrograph

The following pages show the full projected hydrograph from the BBGM model and the calculated Minimum Threshold (MT) based on the 15th Percentile statistic for domestic wells within a 3 mile radius of the RMS location.

FC2070: 395446N1216873W001 Layer 8



Well ID : 20N03E 31M
Hydrograph # : 902
Model Layer : 8
Ground Surface Elevation :

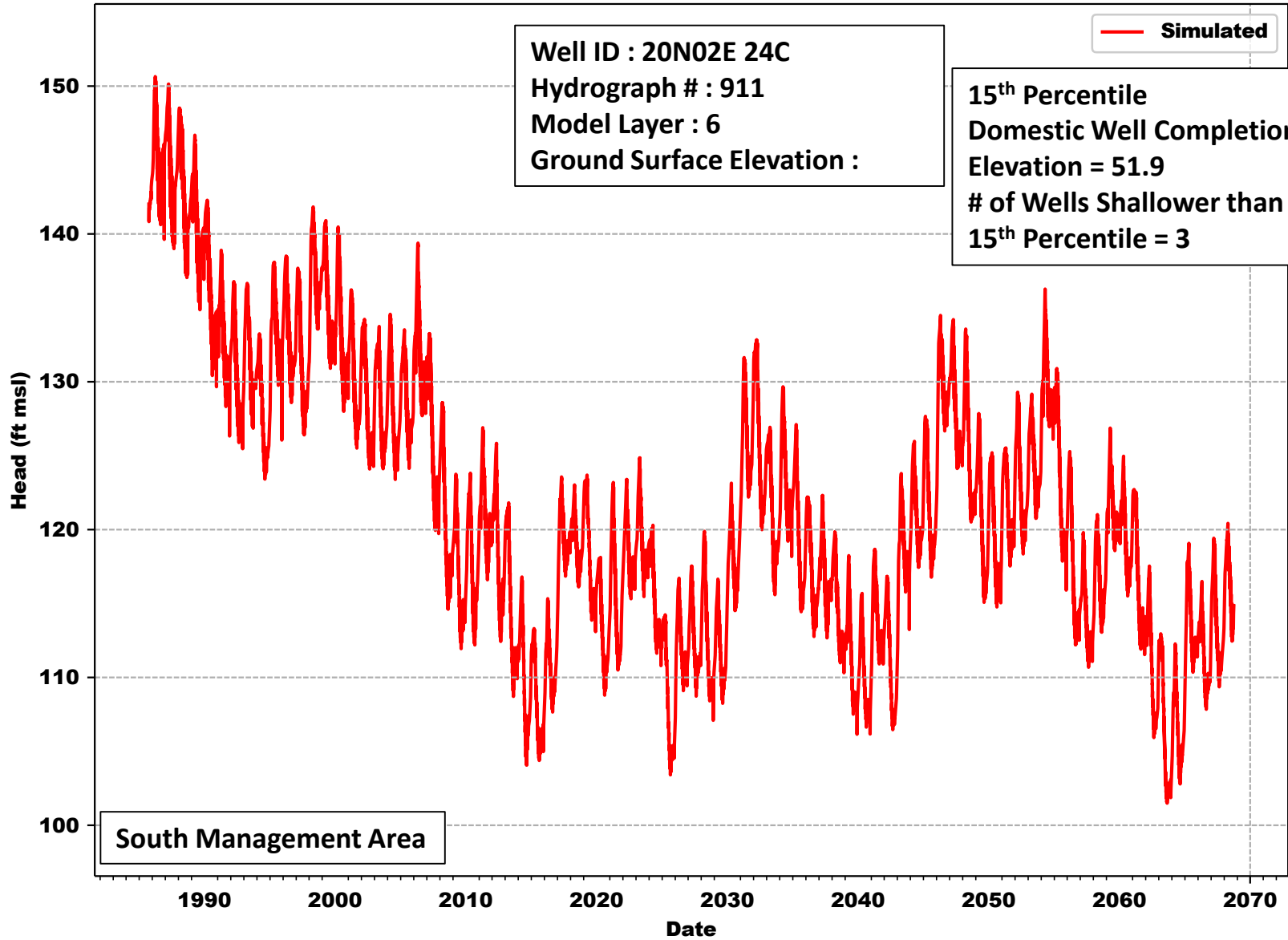
— Simulated

15th Percentile
Domestic Well Completion
Elevation = 21.5
of Wells Shallower than
15th Percentile = 2

South Management Area

Blue Line is the 15th Percentile of domestic well completion elevation
It is shown below the graph if it does not fall within the y-axis range

FC2070: 395812N1217026W002 Layer 6



Well ID : 20N02E 24C
Hydrograph # : 911
Model Layer : 6
Ground Surface Elevation :

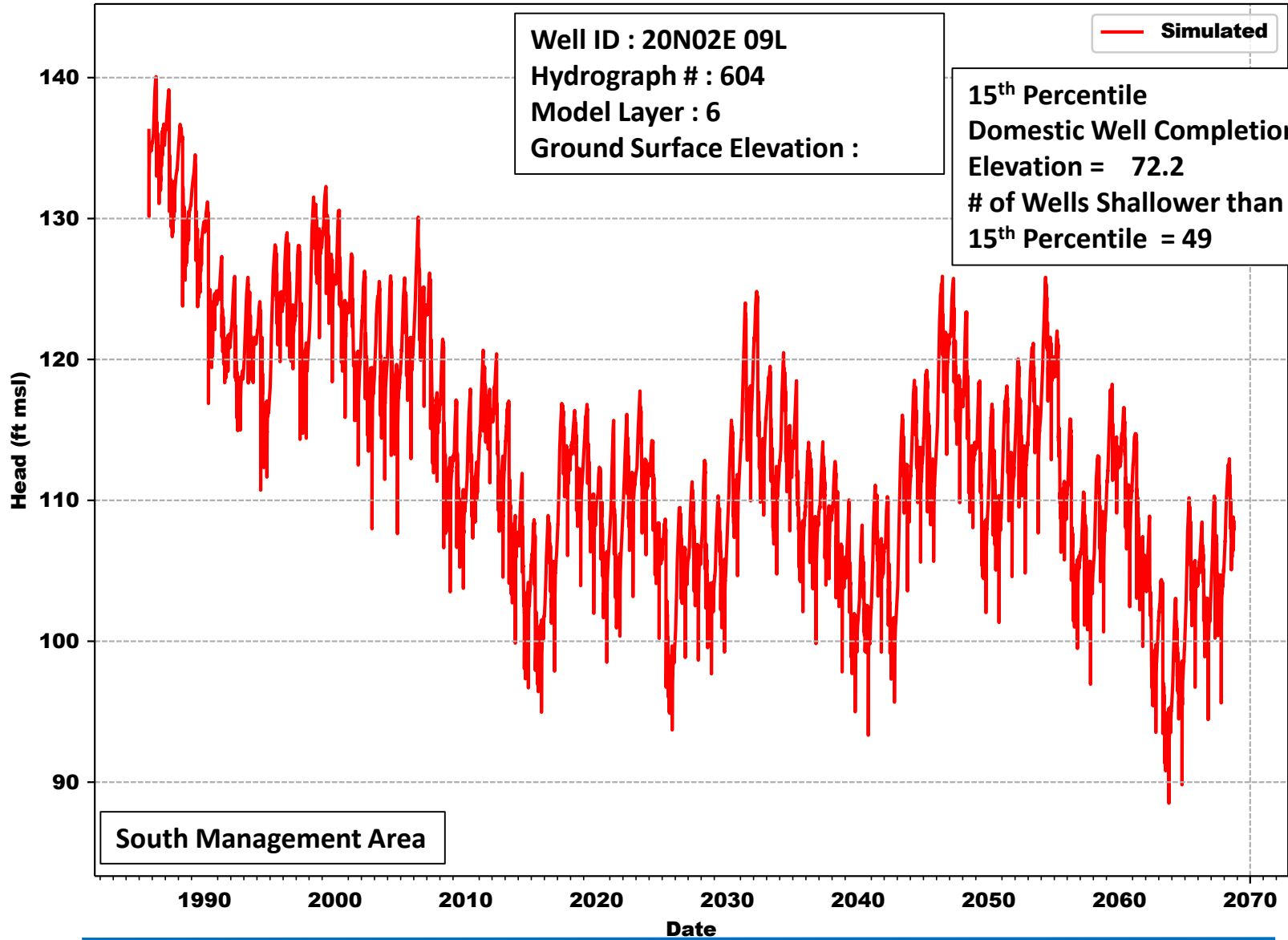
— Simulated

15th Percentile
Domestic Well Completion
Elevation = 51.9
of Wells Shallower than
15th Percentile = 3

South Management Area

Blue Line is the 15th Percentile of domestic well completion elevation
It is shown below the graph if it does not fall within the y-axis range

FC2070: 396066N1217586W001 Layer 6



Well ID : 20N02E 09L
Hydrograph # : 604
Model Layer : 6
Ground Surface Elevation :

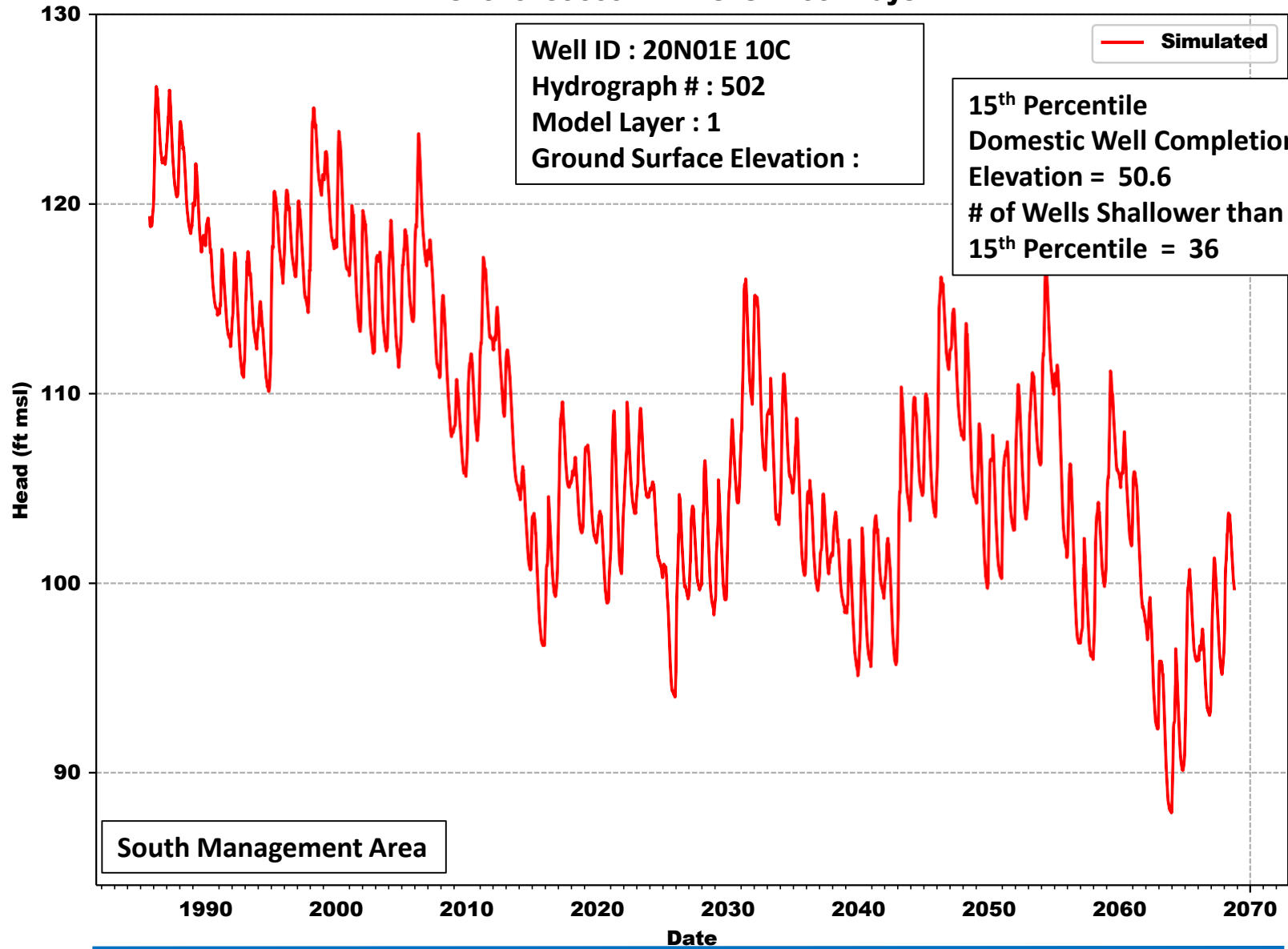
— Simulated

15th Percentile
Domestic Well Completion
Elevation = 72.2
of Wells Shallower than
15th Percentile = 49

South Management Area

Blue Line is the 15th Percentile of domestic well completion elevation
It is shown below the graph if it does not fall within the y-axis range

FC2070: 396097N1218487W001 Layer 1



Well ID : 20N01E 10C
Hydrograph # : 502
Model Layer : 1
Ground Surface Elevation :

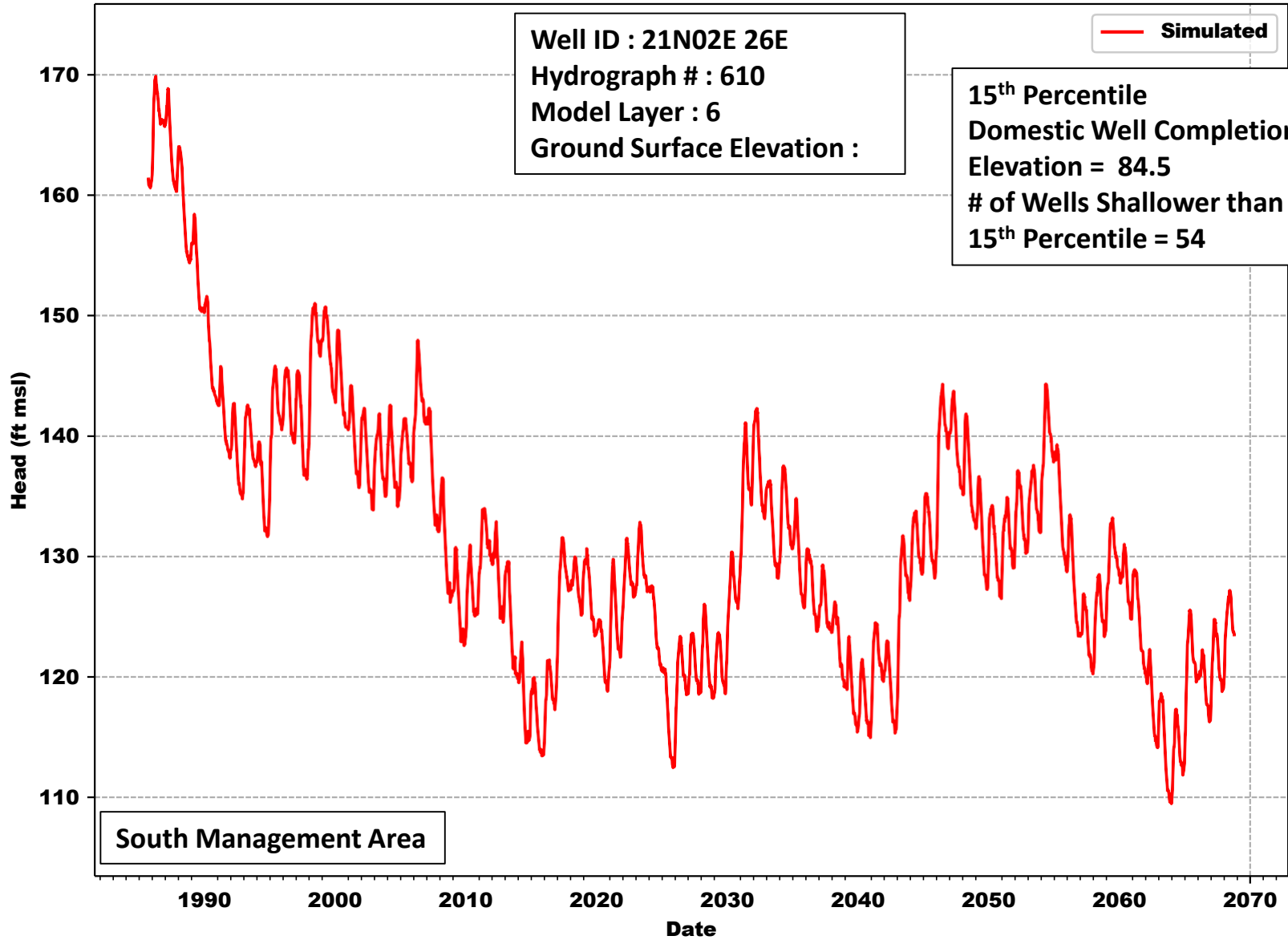
— Simulated

15th Percentile
Domestic Well Completion
Elevation = 50.6
of Wells Shallower than
15th Percentile = 36

South Management Area

Blue Line is the 15th Percentile of domestic well completion elevation
It is shown below the graph if it does not fall within the y-axis range

FC2070: 396468N1217263W004 Layer 6



Well ID : 21N02E 26E
Hydrograph # : 610
Model Layer : 6
Ground Surface Elevation :

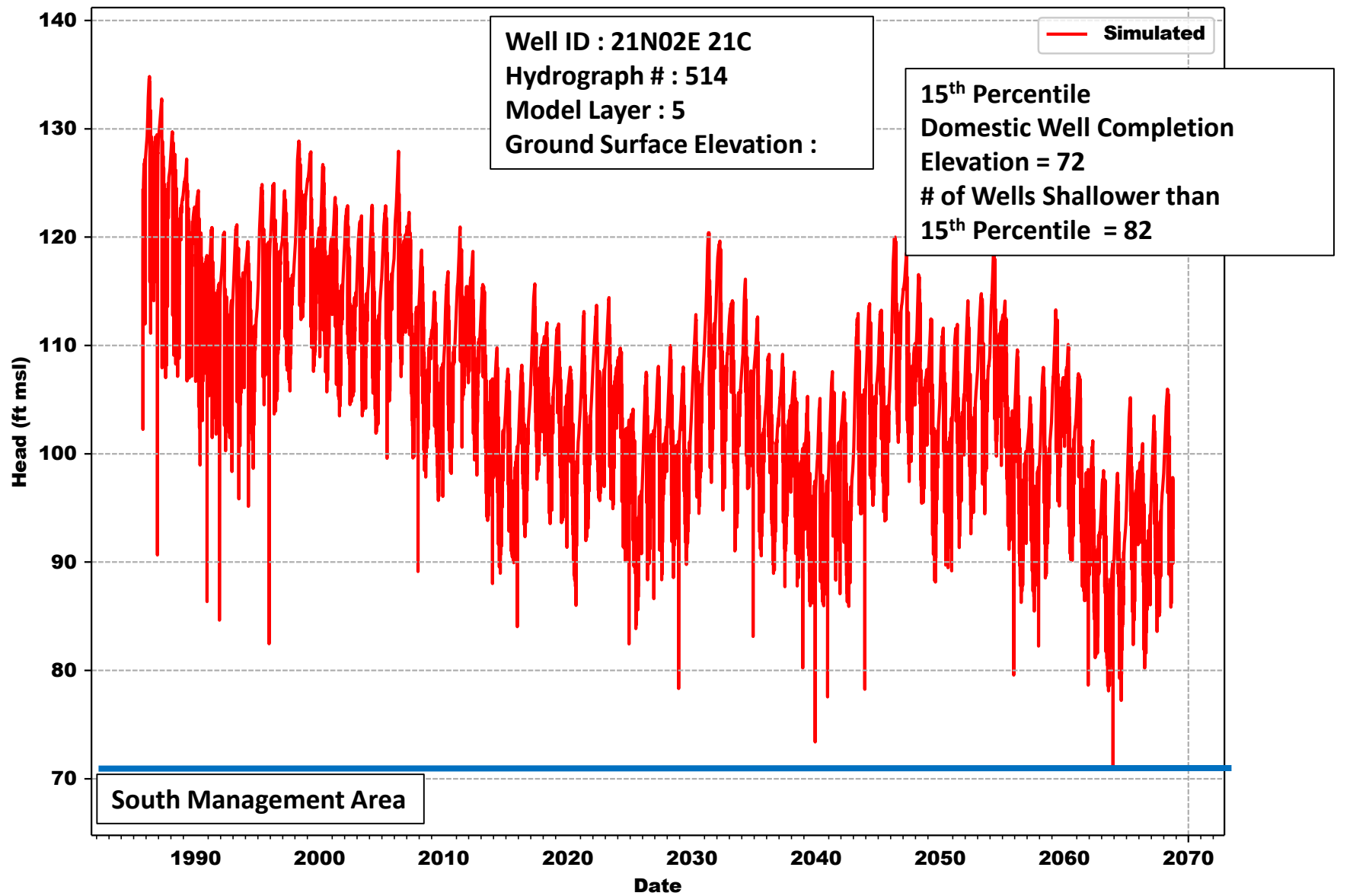
— Simulated

15th Percentile
Domestic Well Completion
Elevation = 84.5
of Wells Shallower than
15th Percentile = 54

South Management Area

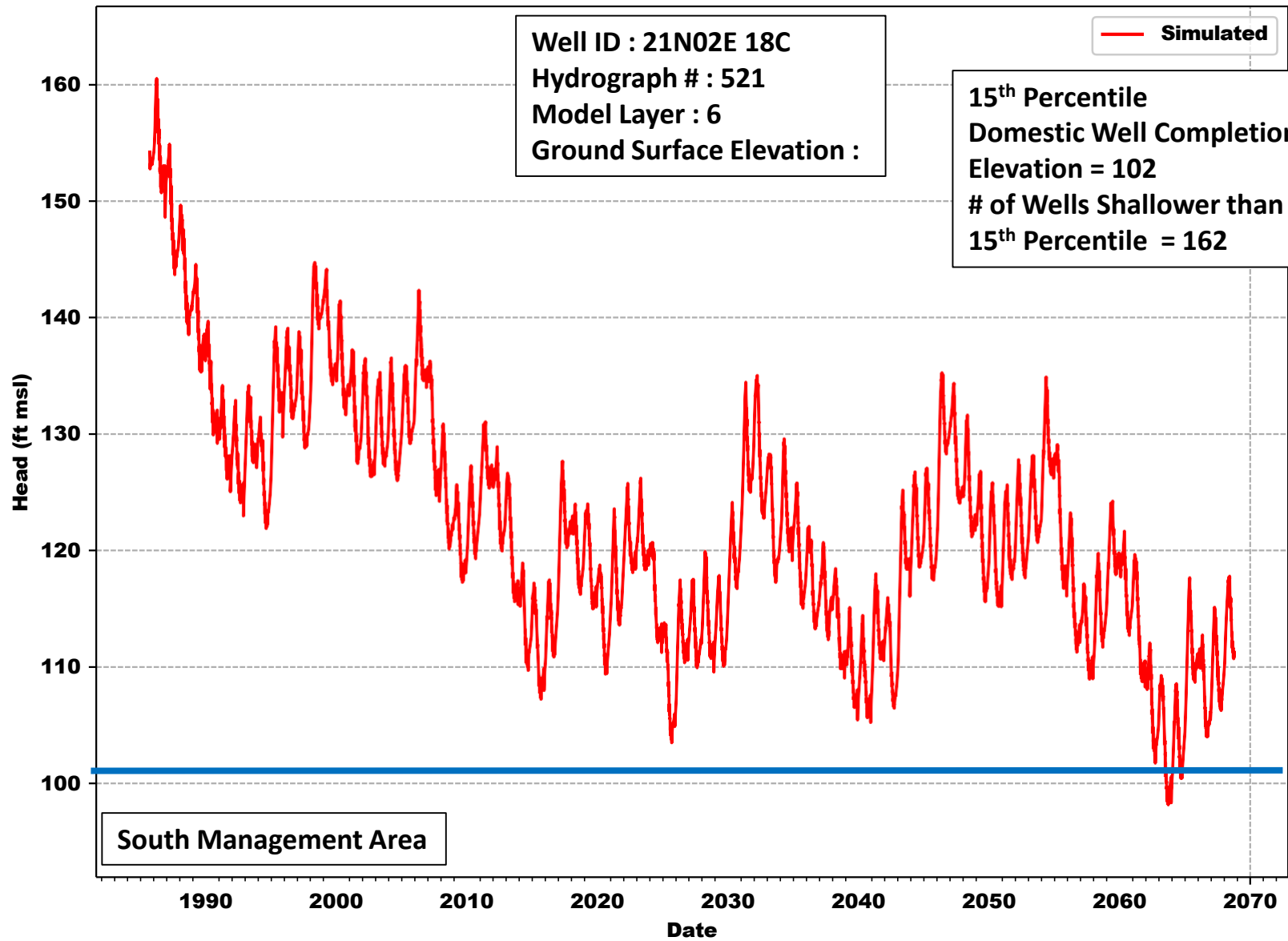
Blue Line is the 15th Percentile of domestic well completion elevation
It is shown below the graph if it does not fall within the y-axis range

FC2070: 396654N1218780W001 Layer 5



Blue Line is the 15th Percentile of domestic well completion elevation
It is shown below the graph if it does not fall within the y-axis range

FC2070: 396820N1217970W002 Layer 6



Well ID : 21N02E 18C
Hydrograph # : 521
Model Layer : 6
Ground Surface Elevation :

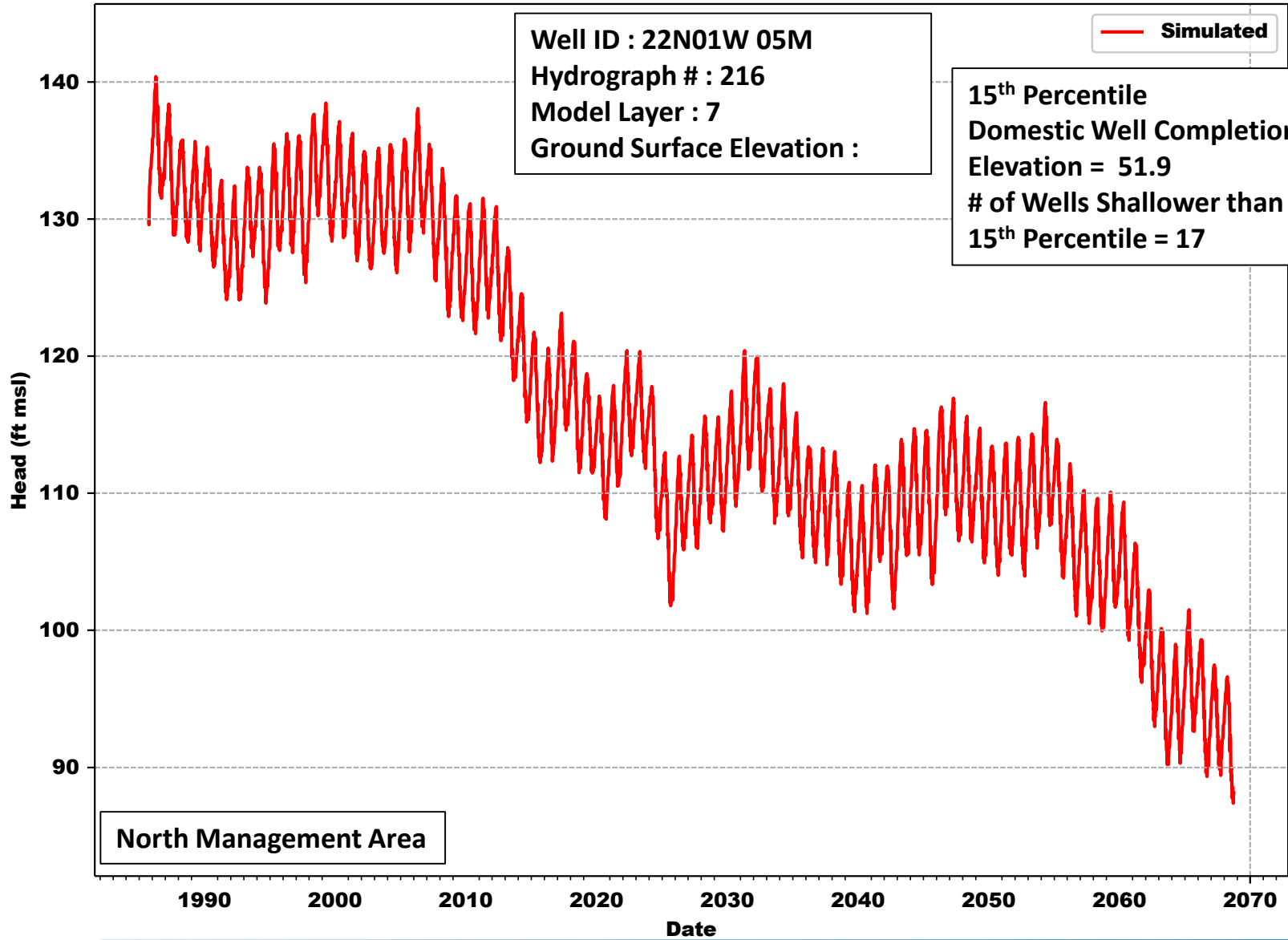
— Simulated

15th Percentile
Domestic Well Completion
Elevation = 102
of Wells Shallower than
15th Percentile = 162

South Management Area

Blue Line is the 15th Percentile of domestic well completion elevation
It is shown below the graph if it does not fall within the y-axis range

FC2070: 397871N1220100W001 Layer 7



Well ID : 22N01W 05M
Hydrograph # : 216
Model Layer : 7
Ground Surface Elevation :

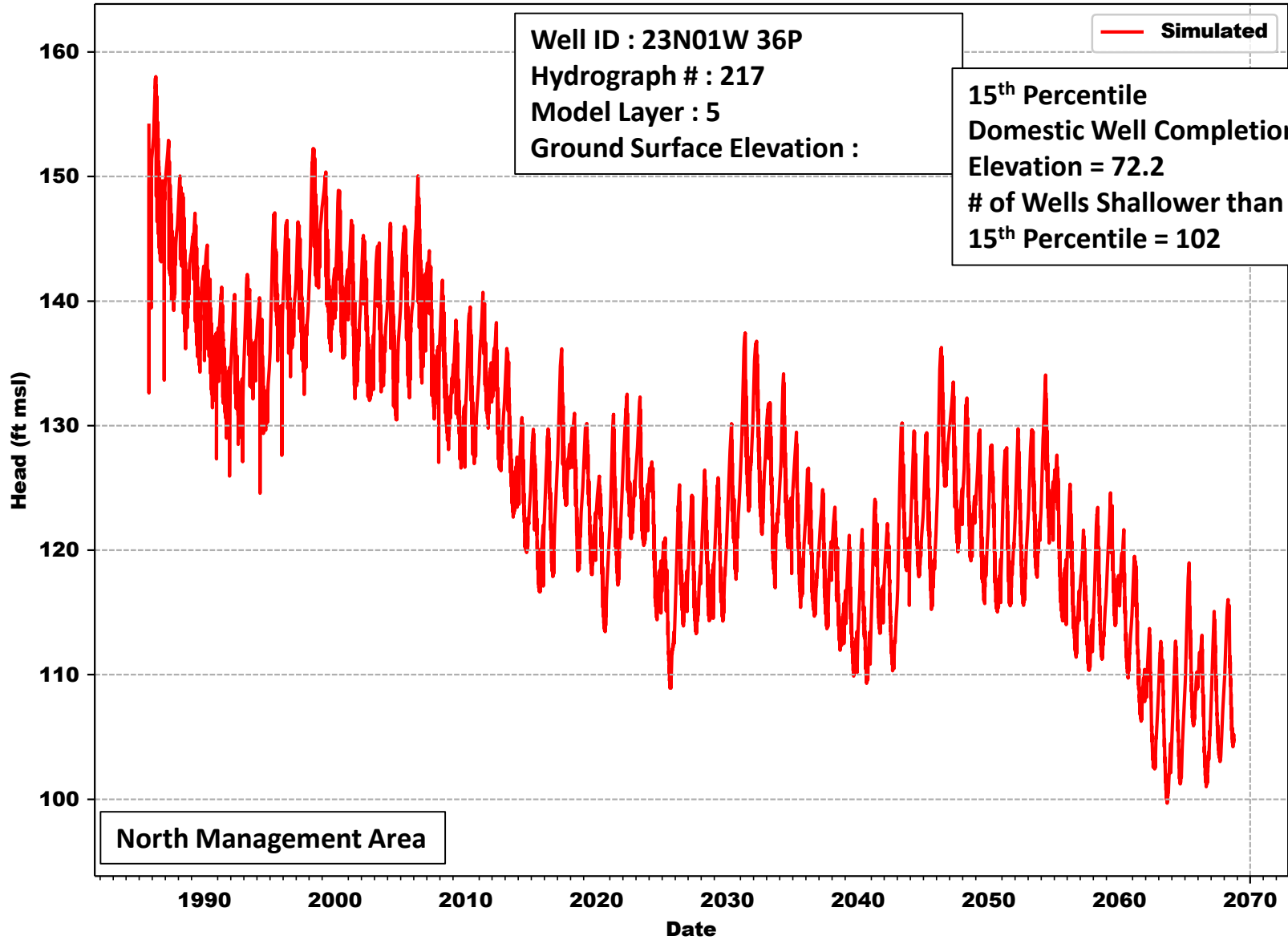
— Simulated

15th Percentile
Domestic Well Completion
Elevation = 51.9
of Wells Shallower than
15th Percentile = 17

North Management Area

Blue Line is the 15th Percentile of domestic well completion elevation
It is shown below the graph if it does not fall within the y-axis range

FC2070: 397972N1219297W001 Layer 5



Well ID : 23N01W 36P
Hydrograph # : 217
Model Layer : 5
Ground Surface Elevation :

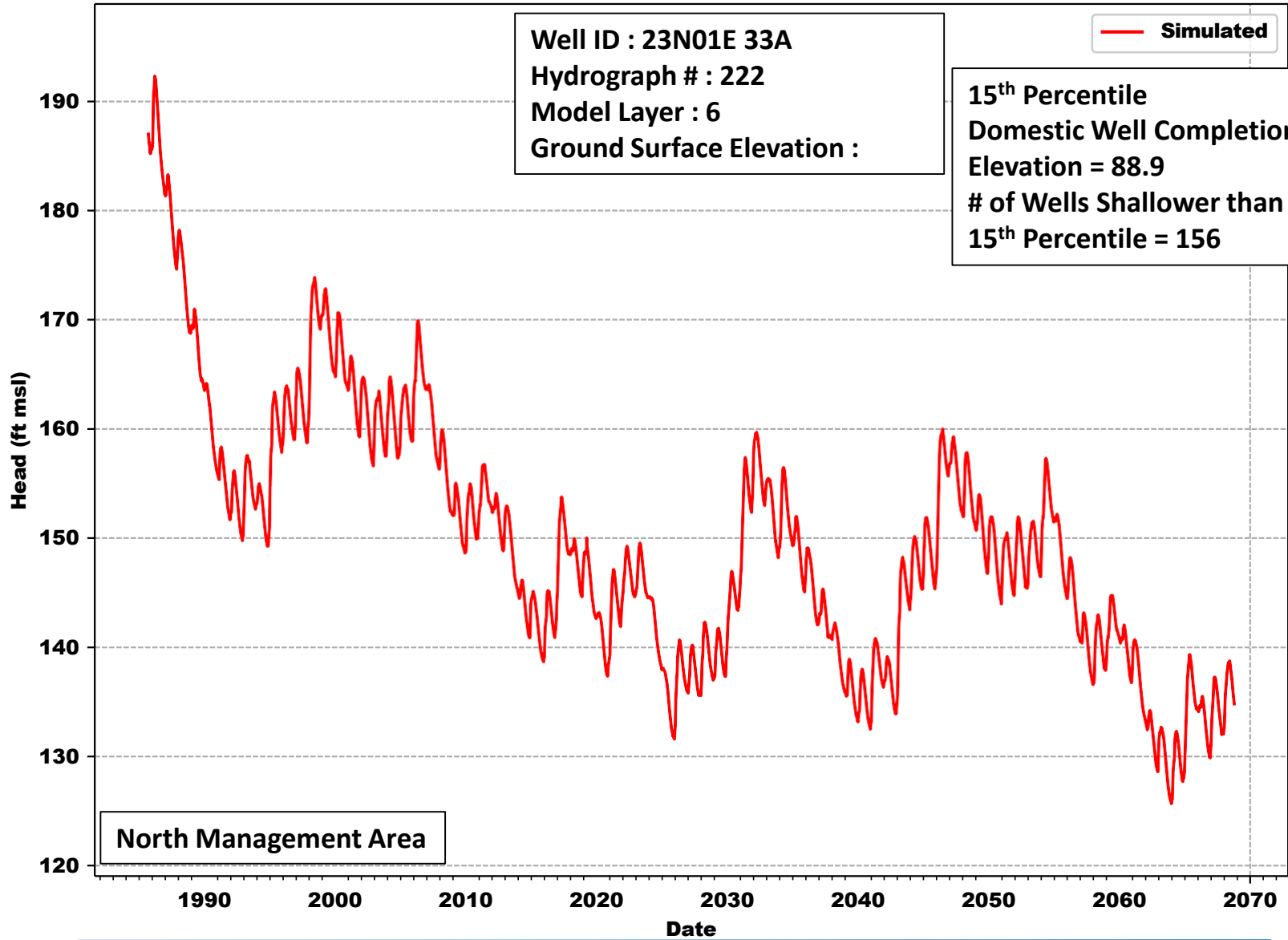
— Simulated

15th Percentile
Domestic Well Completion
Elevation = 72.2
of Wells Shallower than
15th Percentile = 102

North Management Area

Blue Line is the 15th Percentile of domestic well completion elevation
It is shown below the graph if it does not fall within the y-axis range

FC2070: 398097N1218630W001 Layer 6



Well ID : 23N01E 33A
Hydrograph # : 222
Model Layer : 6
Ground Surface Elevation :

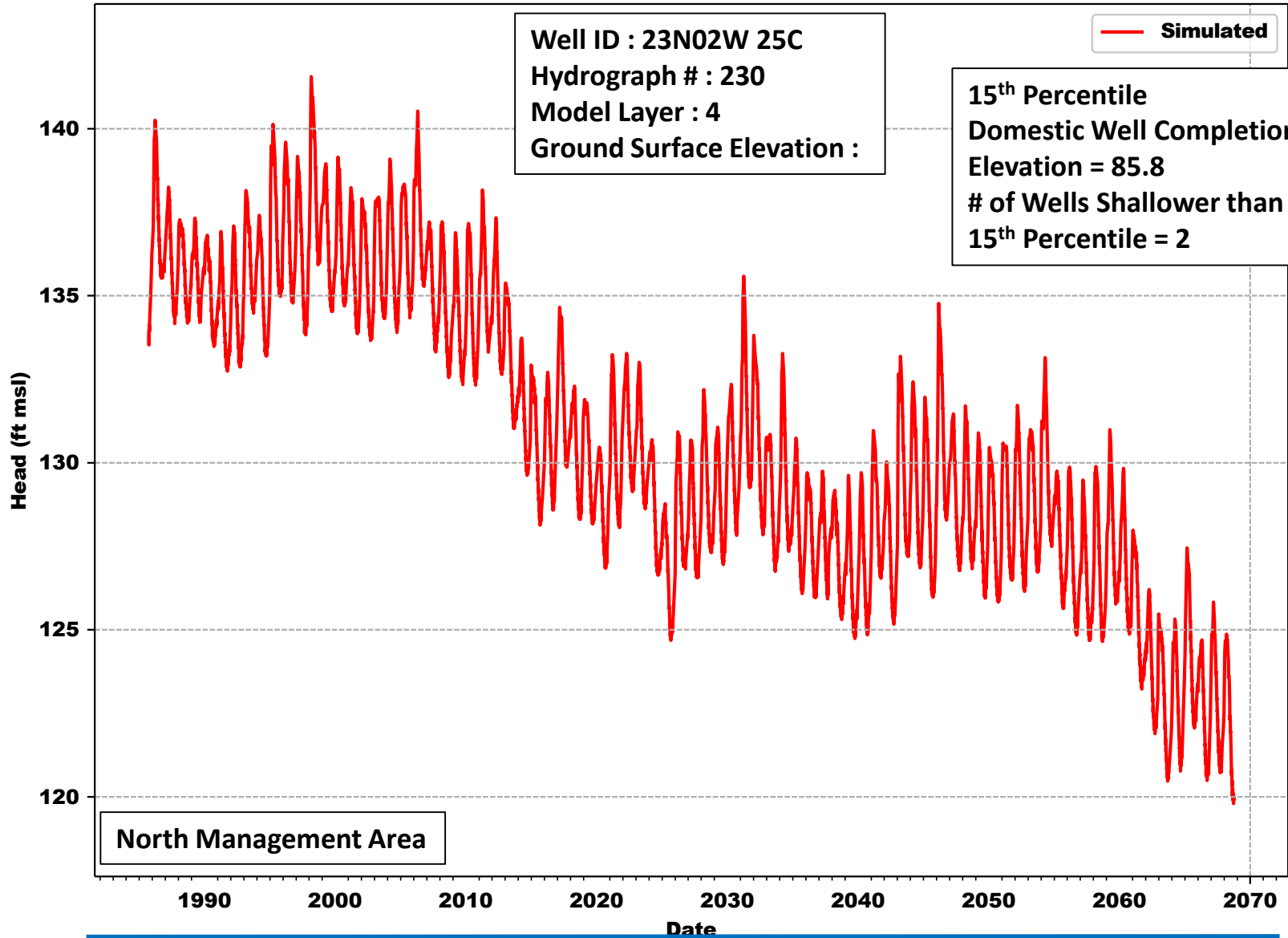
— Simulated

15th Percentile
Domestic Well Completion
Elevation = 88.9
of Wells Shallower than
15th Percentile = 156

North Management Area

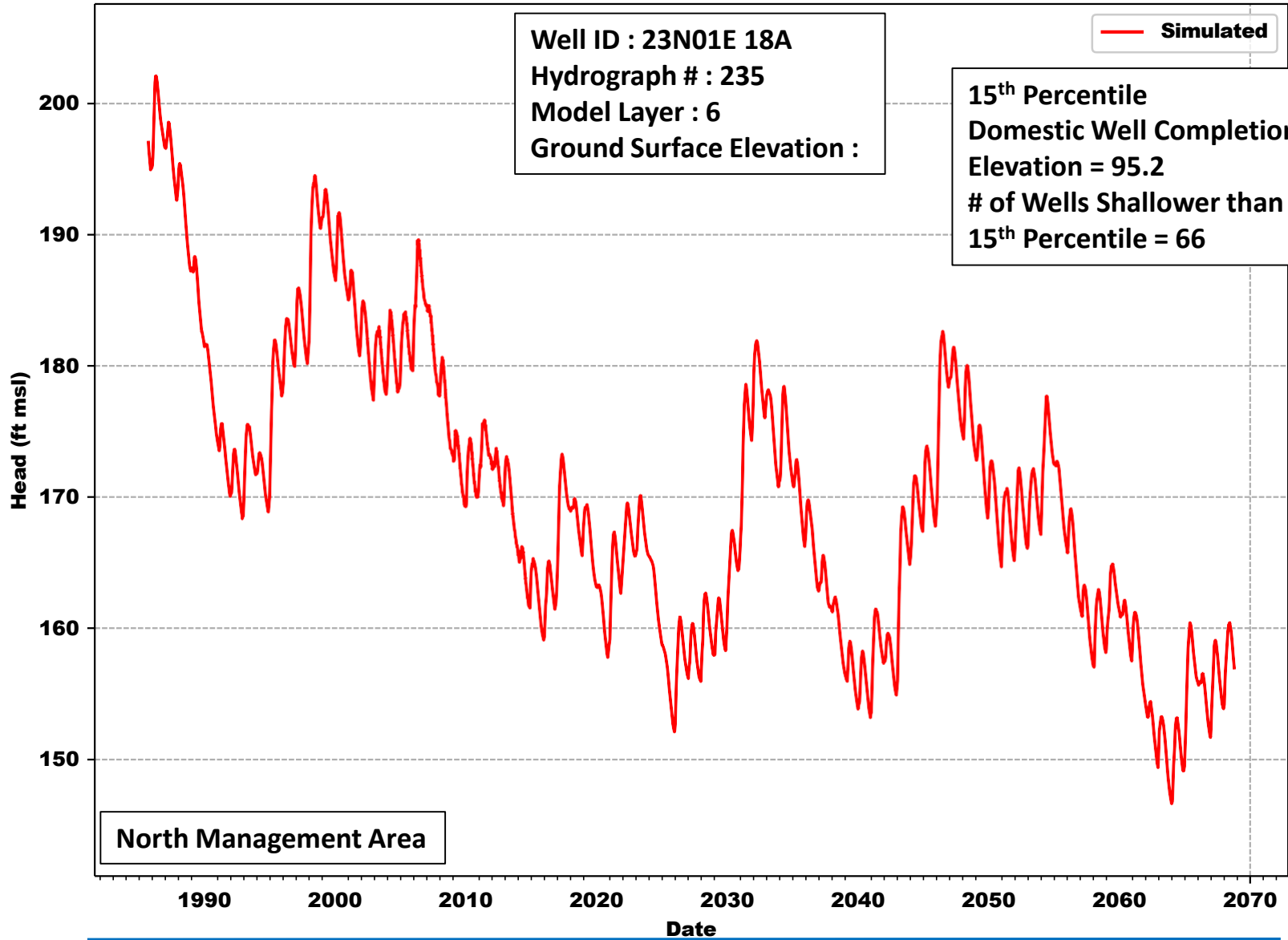
Blue Line is the 15th Percentile of domestic well completion elevation
It is shown below the graph if it does not fall within the y-axis range

FC2070: 398222N1220401W001 Layer 4



Blue Line is the 15th Percentile of domestic well completion elevation
It is shown below the graph if it does not fall within the y-axis range

FC2070: 398539N1219052W001 Layer 6



Well ID : 23N01E 18A
Hydrograph # : 235
Model Layer : 6
Ground Surface Elevation :

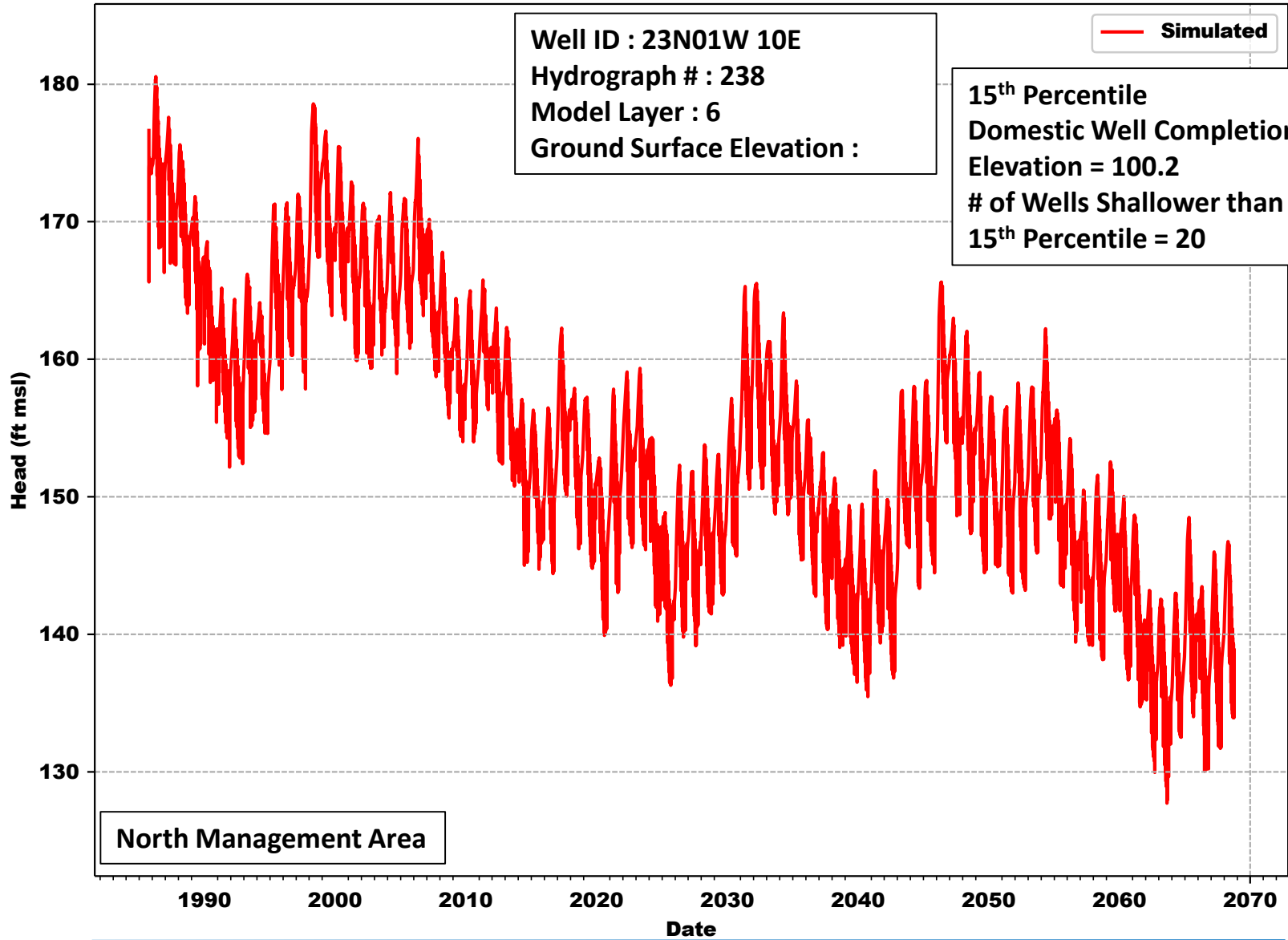
— Simulated

15th Percentile
Domestic Well Completion
Elevation = 95.2
of Wells Shallower than
15th Percentile = 66

North Management Area

Blue Line is the 15th Percentile of domestic well completion elevation
It is shown below the graph if it does not fall within the y-axis range

FC2070: 398640N1219723W001 Layer 6



Well ID : 23N01W 10E
Hydrograph # : 238
Model Layer : 6
Ground Surface Elevation :

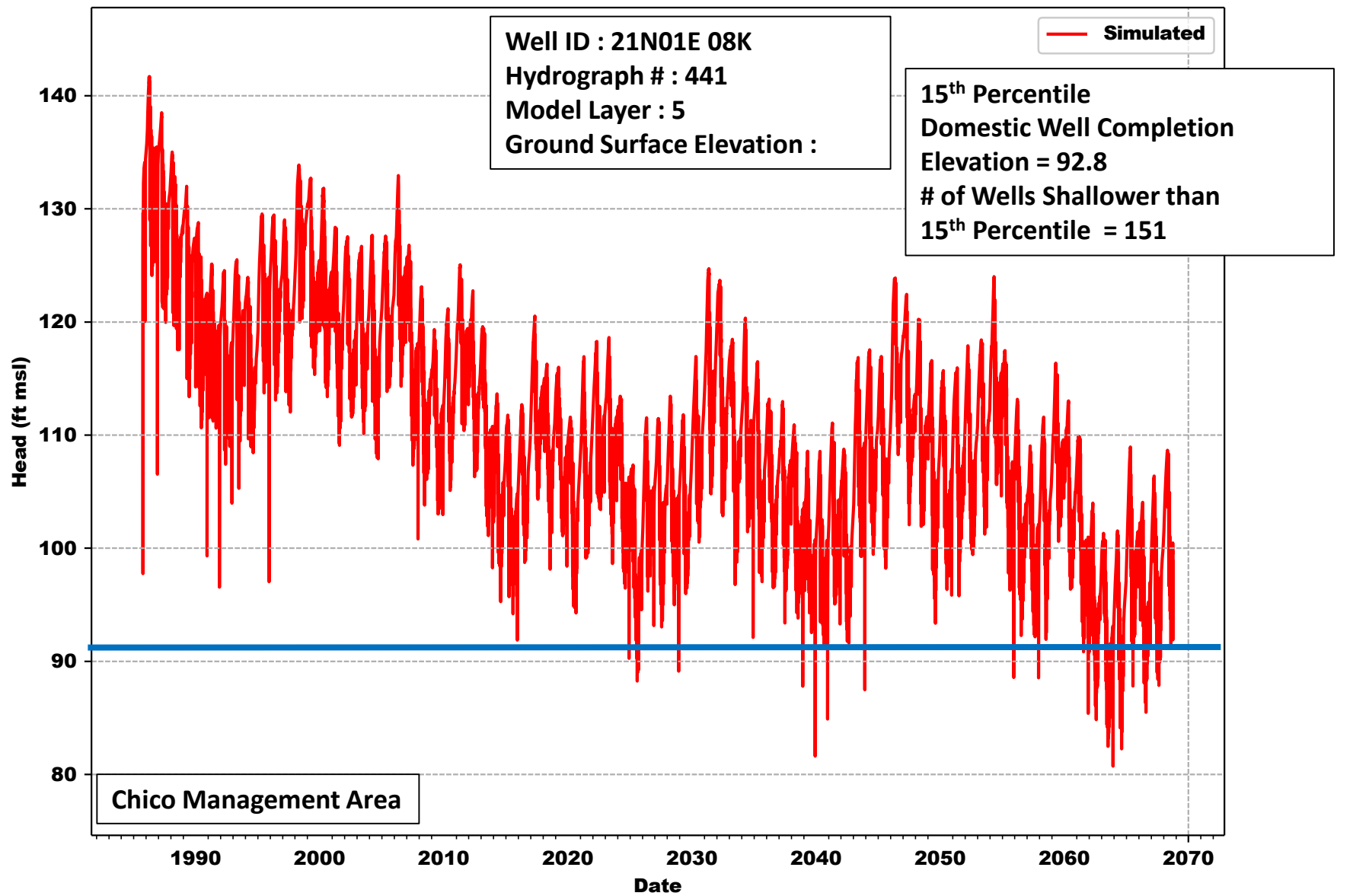
— Simulated

15th Percentile
Domestic Well Completion
Elevation = 100.2
of Wells Shallower than
15th Percentile = 20

North Management Area

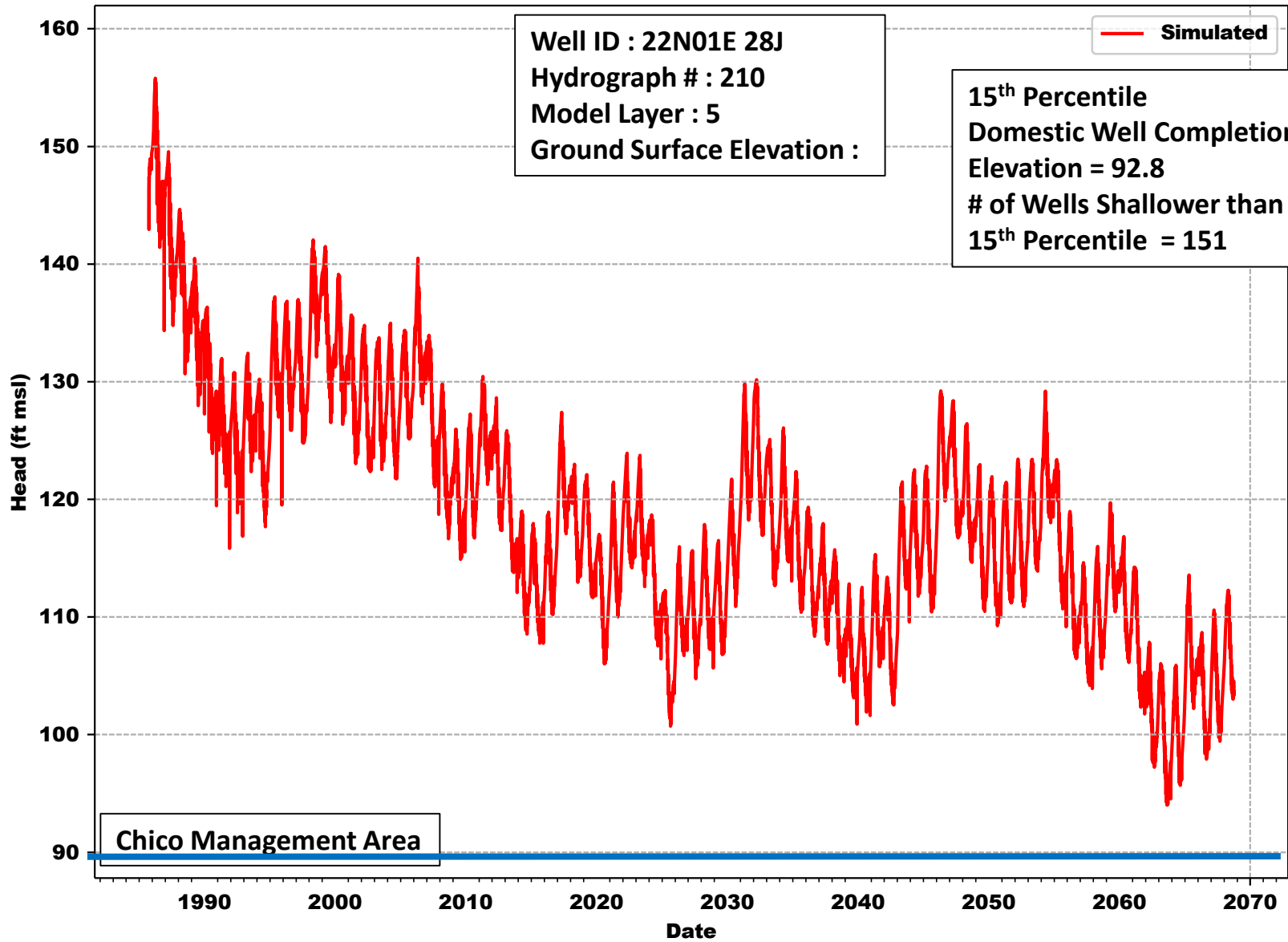
Blue Line is the 15th Percentile of domestic well completion elevation
It is shown below the graph if it does not fall within the y-axis range

FC2070: 396891N1218854W001 Layer 5



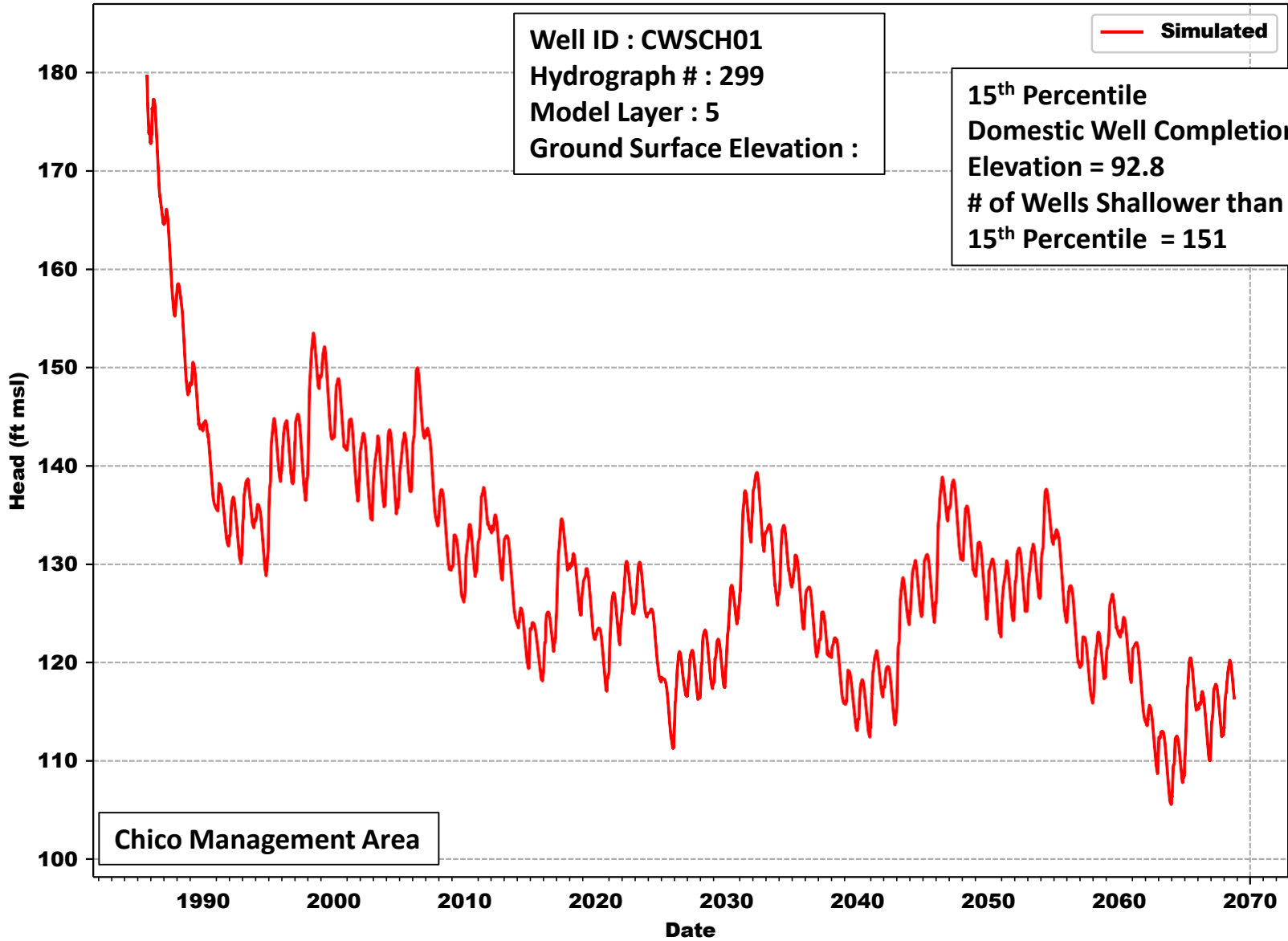
Blue Line is the 15th Percentile of domestic well completion elevation
It is shown below the graph if it does not fall within the y-axis range

FC2070: 397317N1218649W001 Layer 5



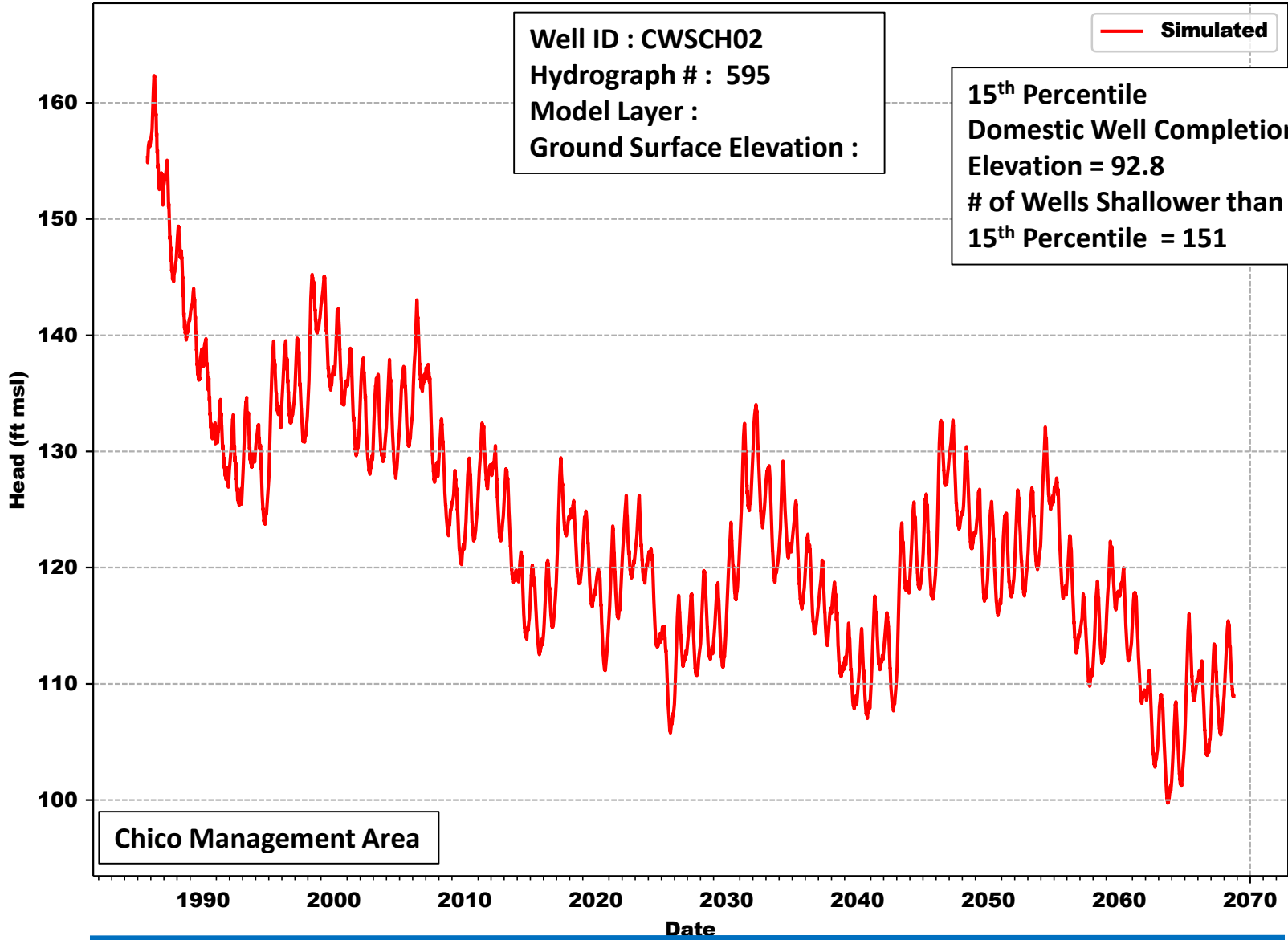
Blue Line is the 15th Percentile of domestic well completion elevation
It is shown below the graph if it does not fall within the y-axis range

FC2070: CWSCH01 Layer 5



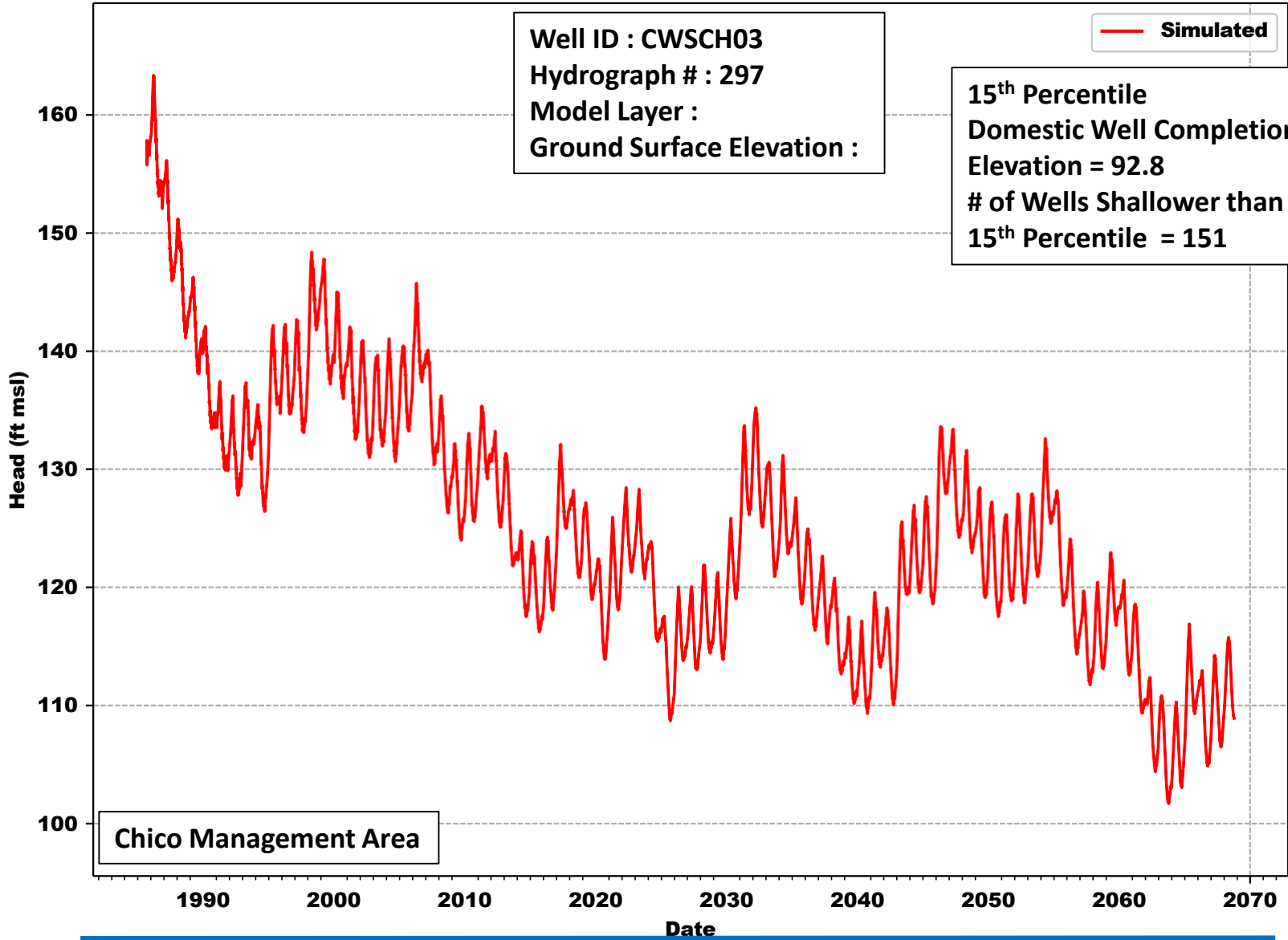
Blue Line is the 15th Percentile of domestic well completion elevation
It is shown below the graph if it does not fall within the y-axis range

FC2070: CWSCH02 Layer 6



Blue Line is the 15th Percentile of domestic well completion elevation
It is shown below the graph if it does not fall within the y-axis range

FC2070: CWSCH03 Layer 6



Well ID : CWSCH03
Hydrograph # : 297
Model Layer :
Ground Surface Elevation :

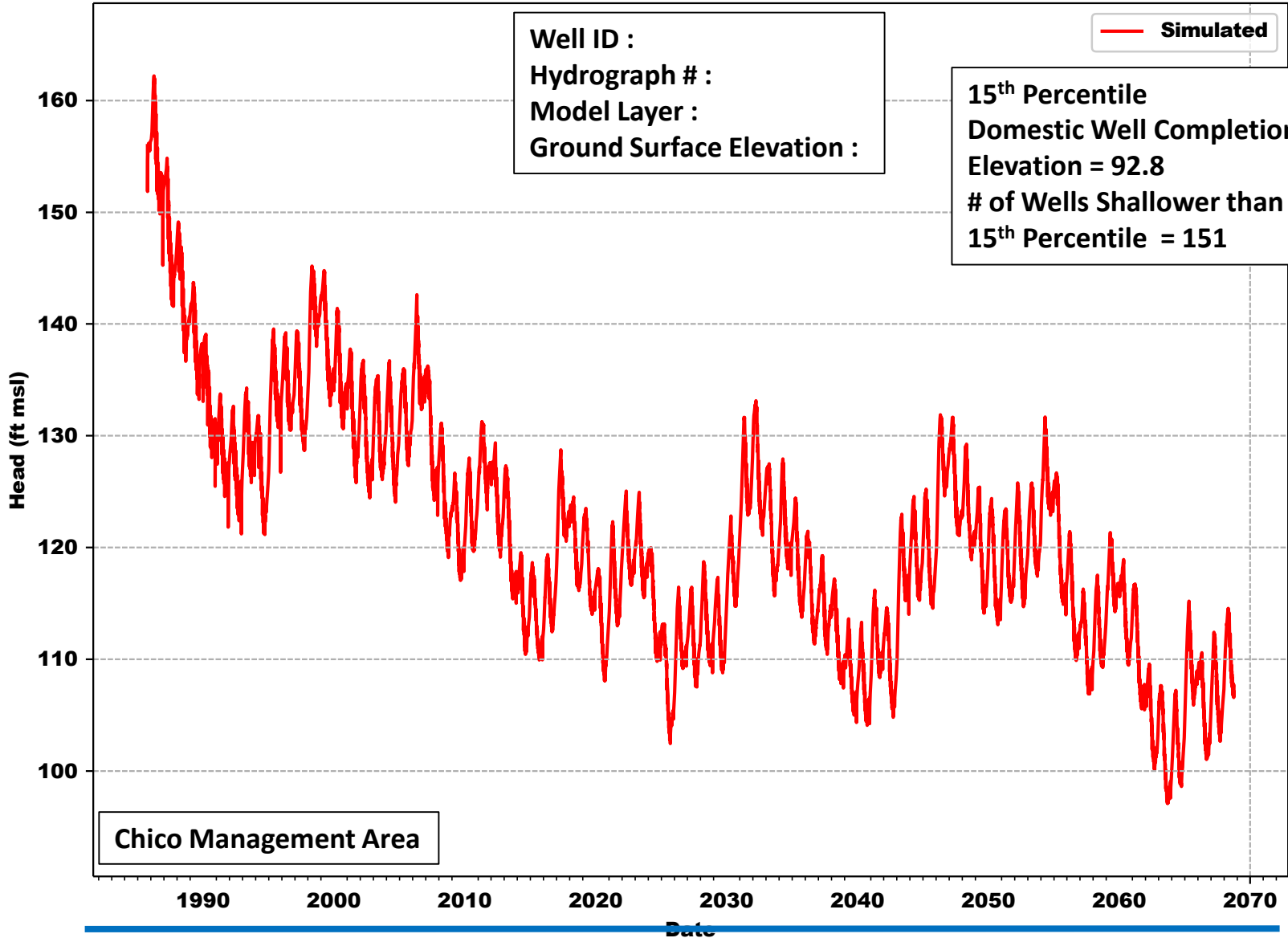
— Simulated

15th Percentile
Domestic Well Completion
Elevation = 92.8
of Wells Shallower than
15th Percentile = 151

Chico Management Area

Blue Line is the 15th Percentile of domestic well completion elevation
It is shown below the graph if it does not fall within the y-axis range

FC2070: CWSCH04 Layer 5



Well ID :
Hydrograph # :
Model Layer :
Ground Surface Elevation :

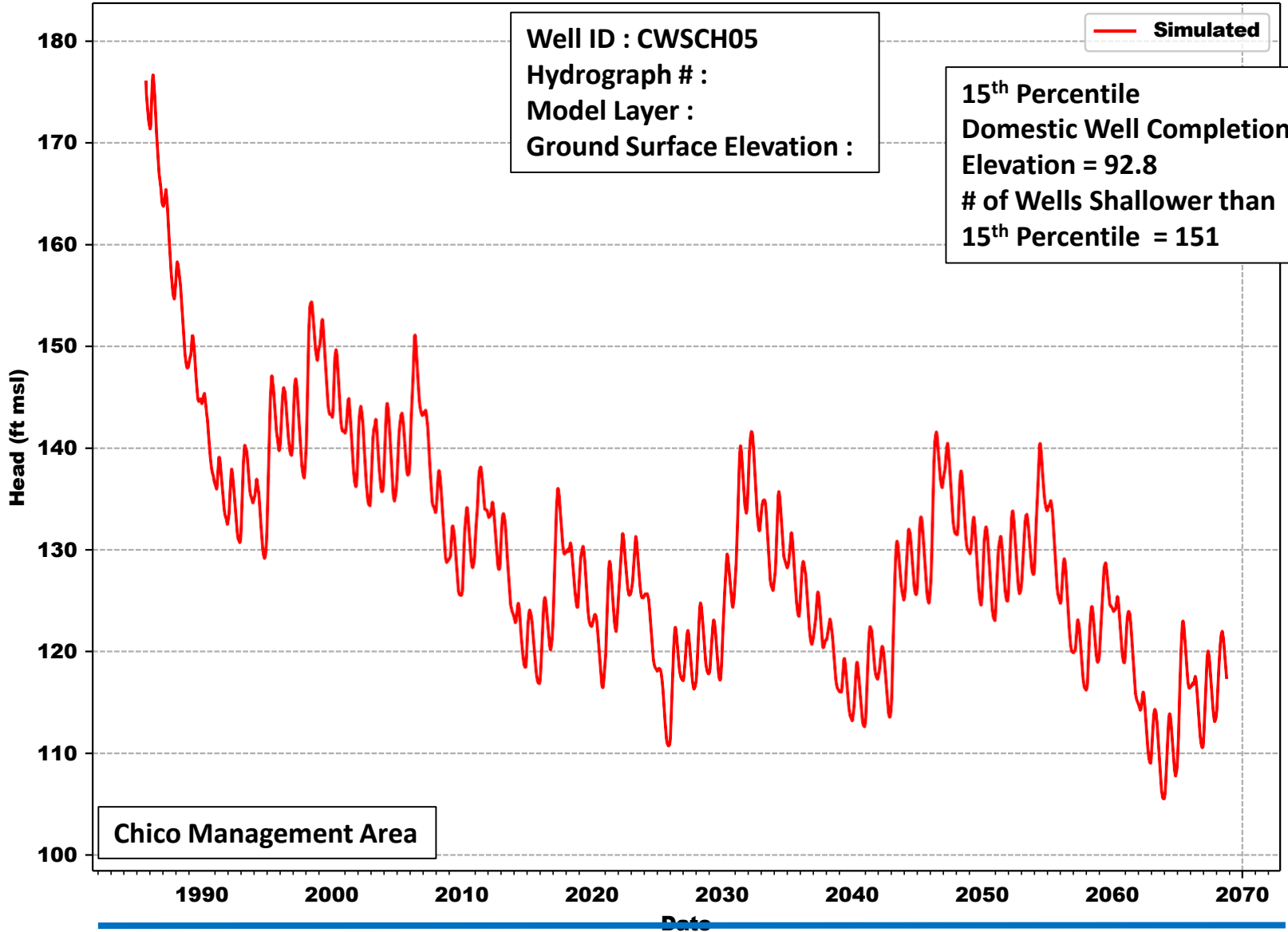
— Simulated

15th Percentile
Domestic Well Completion
Elevation = 92.8
of Wells Shallower than
15th Percentile = 151

Chico Management Area

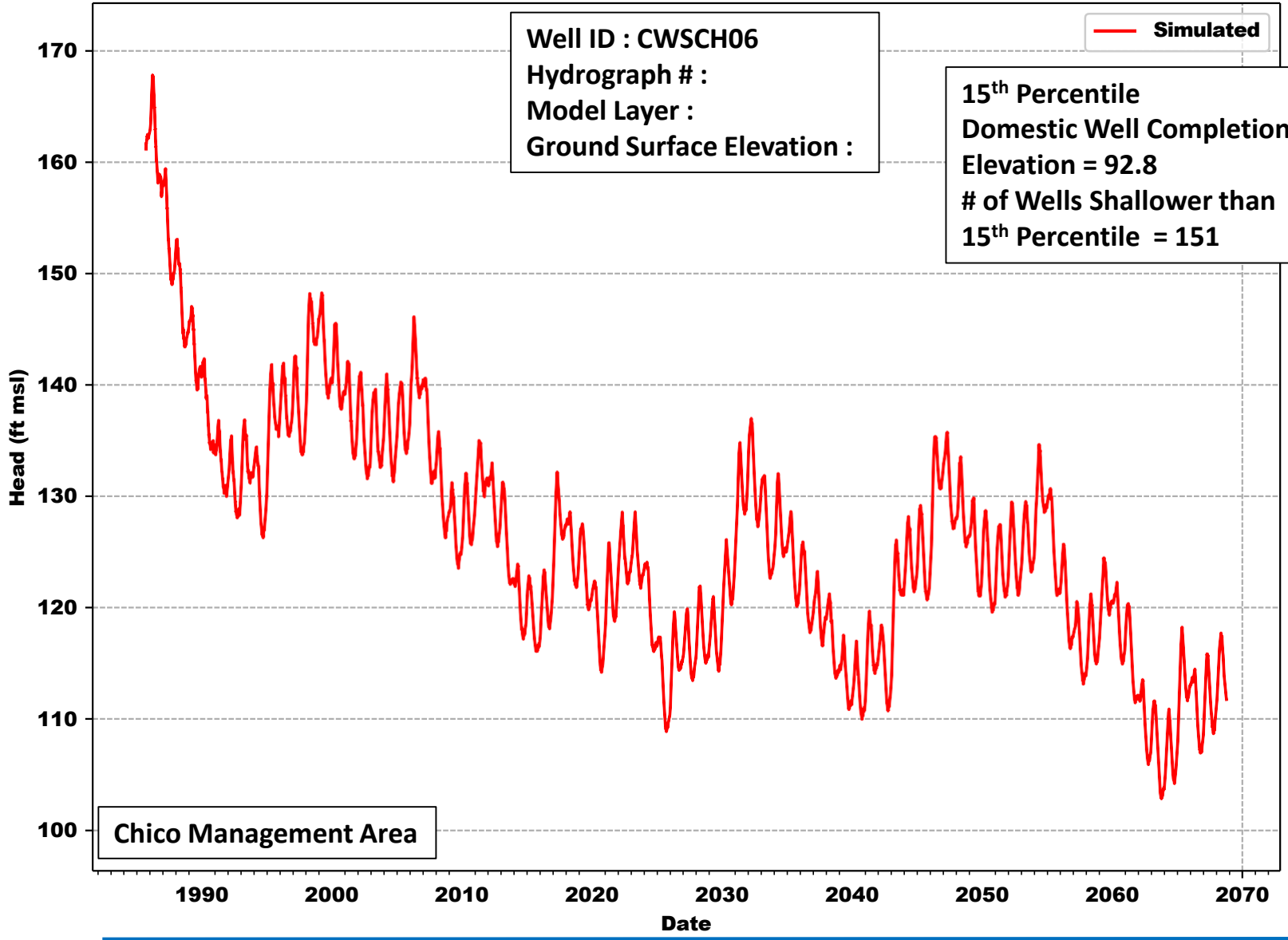
Blue Line is the 15th Percentile of domestic well completion elevation
It is shown below the graph if it does not fall within the y-axis range

FC2070: CWSCH05 Layer 5



Blue Line is the 15th Percentile of domestic well completion elevation
It is shown below the graph if it does not fall within the y-axis range

FC2070: CWSCH06 Layer 6



Well ID : CWSCH06
Hydrograph # :
Model Layer :
Ground Surface Elevation :

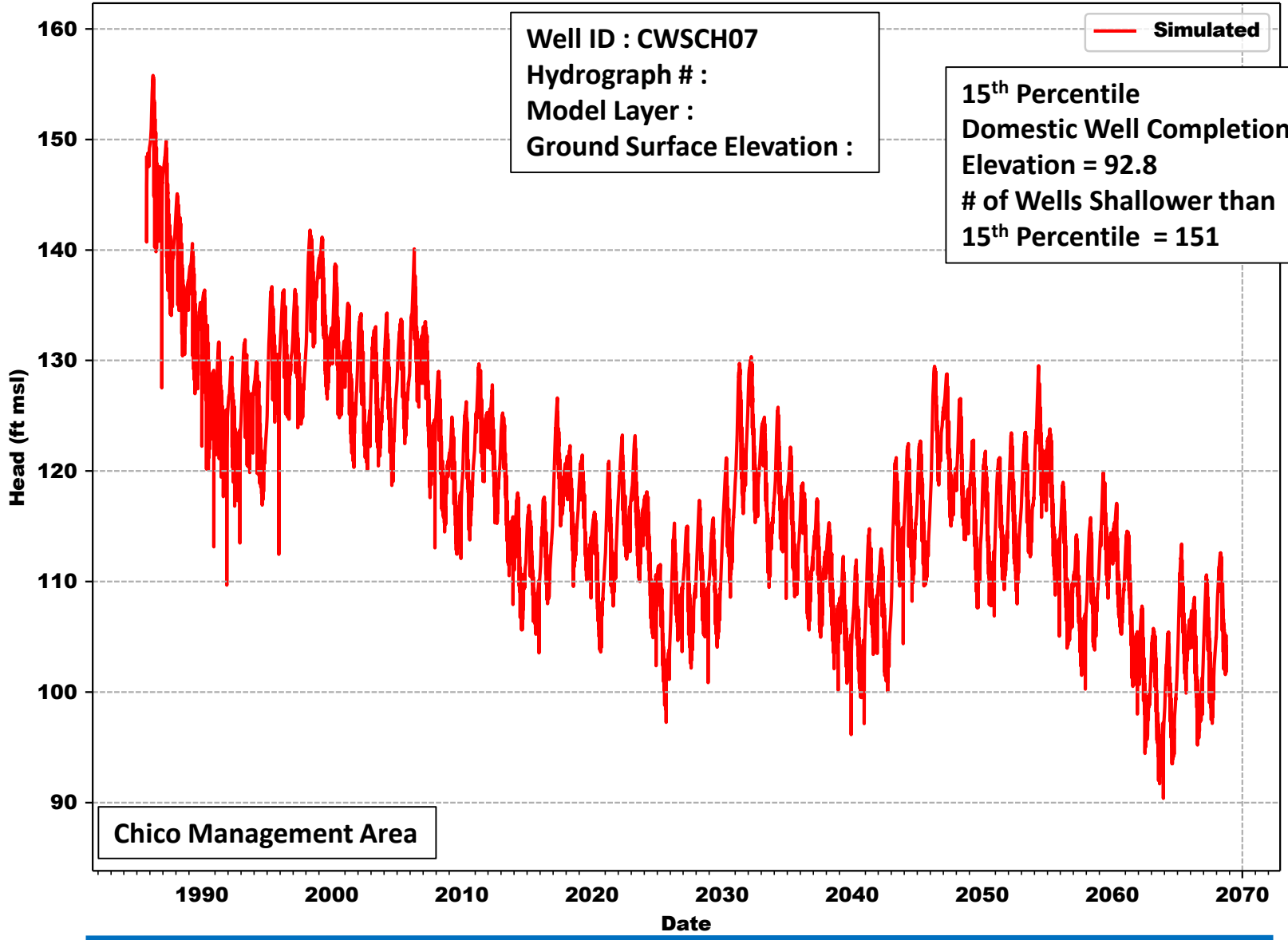
— Simulated

15th Percentile
Domestic Well Completion
Elevation = 92.8
of Wells Shallower than
15th Percentile = 151

Chico Management Area

Blue Line is the 15th Percentile of domestic well completion elevation
It is shown below the graph if it does not fall within the y-axis range

FC2070: CWSCH07 Layer 5



Blue Line is the 15th Percentile of domestic well completion elevation
It is shown below the graph if it does not fall within the y-axis range