



# W01

## SA Border to Kalgoorlie

### Document Status

Version #	Date Reviewed	Prepared by	Reviewed by	Endorsed	Approved
3.0	10 Nov 23	Operations Standards	Stakeholders	Operations Standards Manager	Head of Operations Standards 18/12/2023

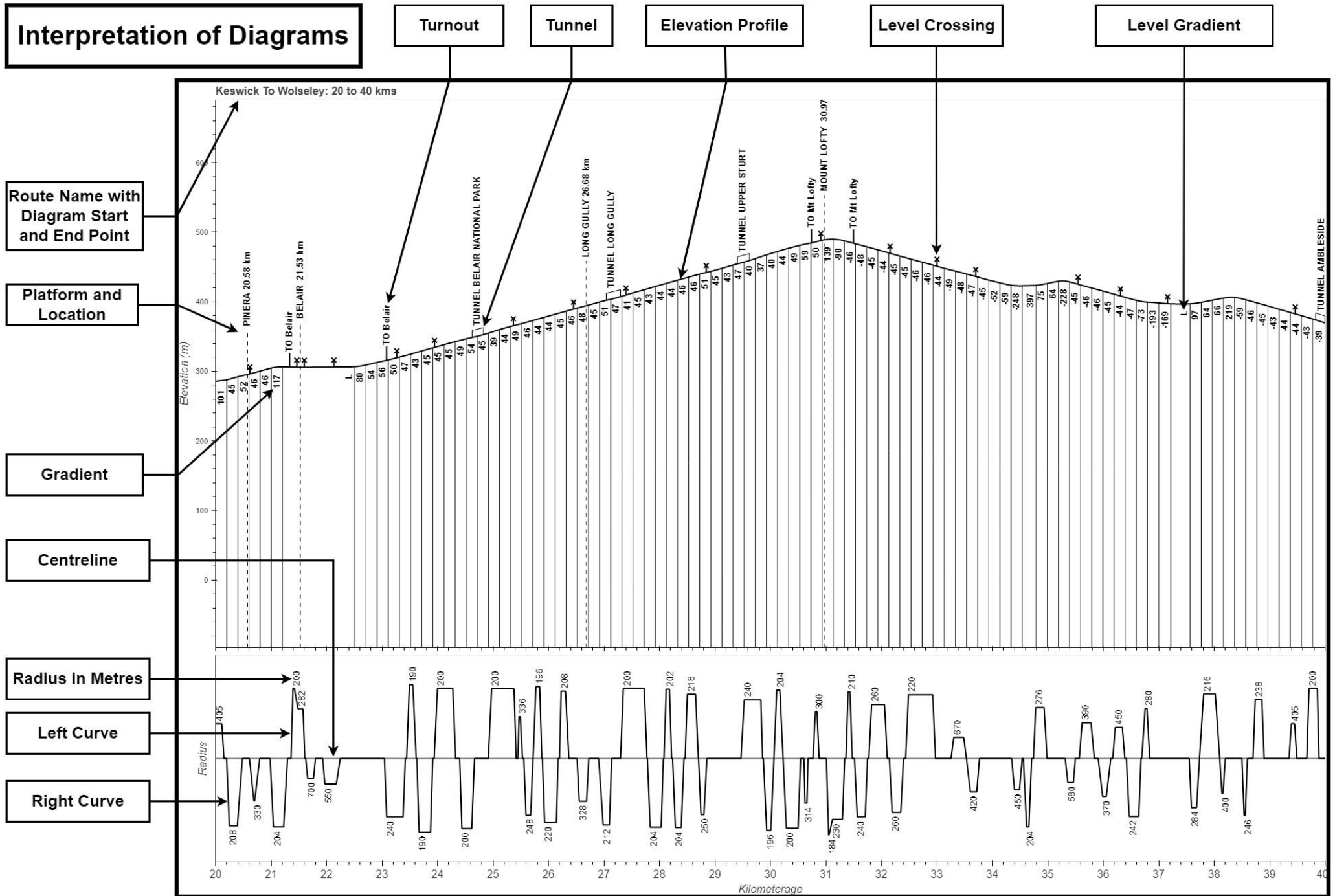
## Curve and Gradient Diagrams – Data Sources and Descriptions

Data Type	Data Source	Data Description
Grade	ARTC Asset Register	Horizontal and vertical geometry obtained using Reigl LiDAR, GPS, IMU and Gyroscope fitted to ARTC Hi-Rail vehicle.
Curvature	ARTC Asset Register	Curvature data measured using AK car and verified against track design specifications.
Platforms	ARTC Asset Register	Asset locations obtained through TrackData.
Tunnels		
Turnouts		
Level Crossings		

### DISCLAIMER:

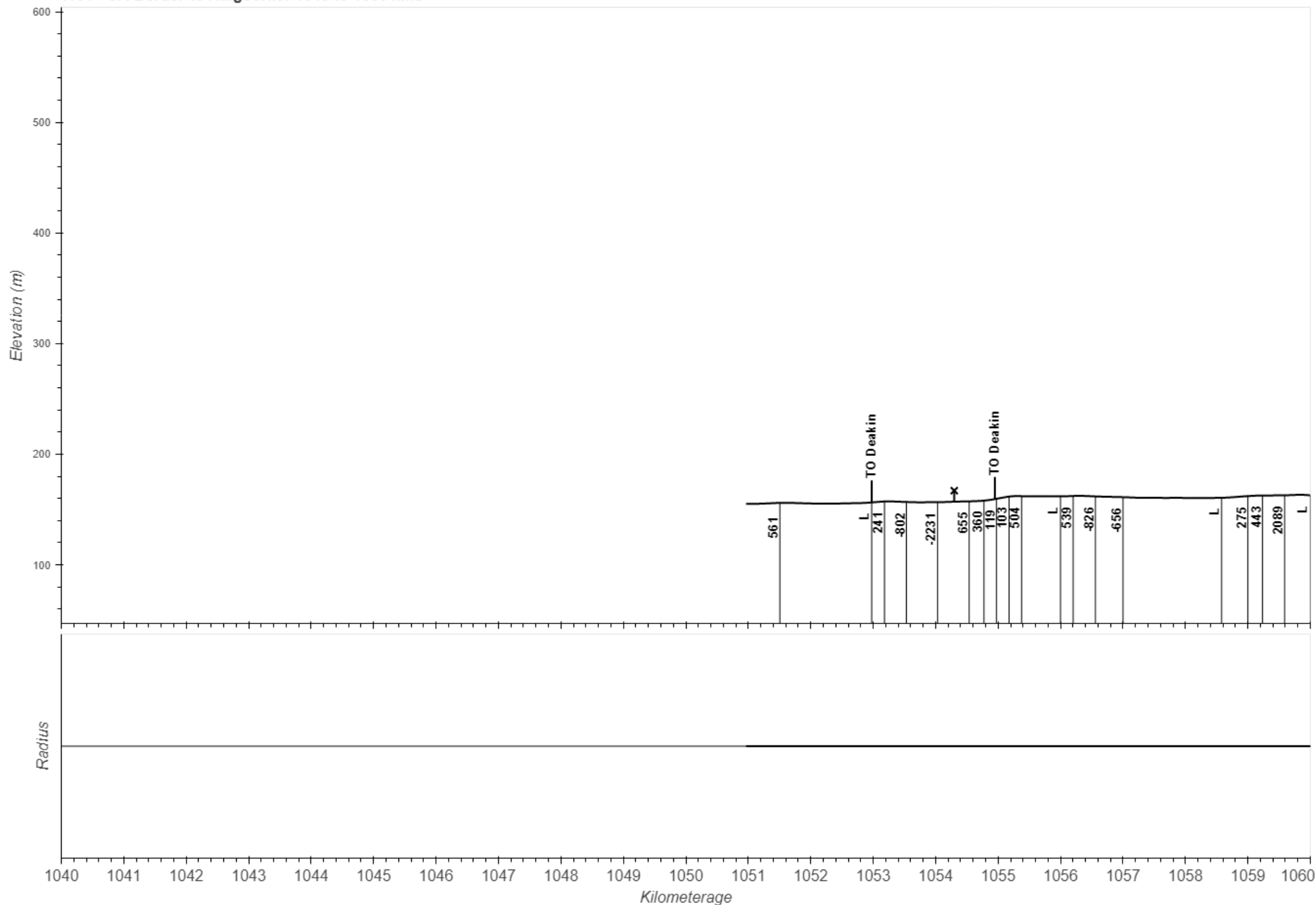
1. The following diagrams are a representation only.
2. Refer to the Curvature Master for controlled curvature data.
3. Refer to ARTC Network Information Books diagrams for detailed information.
4. This document is uncontrolled when printed.

# Interpretation of Diagrams

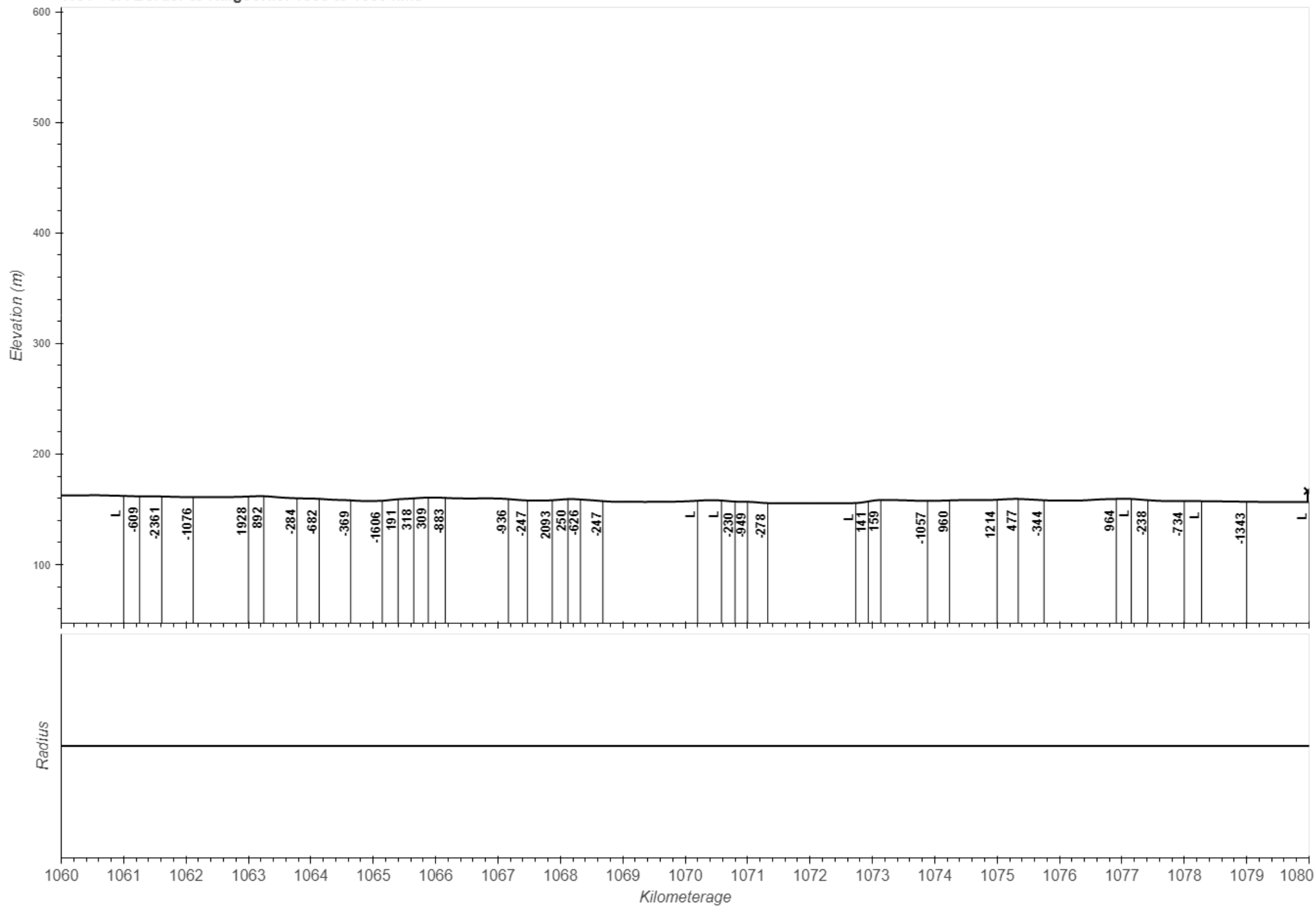


<b>Turnout</b>	Turnouts are denoted by a small vertical lines along the elevation profile, with a TO (turnout) prefix. A suffix of XO means that there is a crossover. These turnouts are toe of blades locations, and therefore should not be used to estimate standing length.
<b>Tunnel</b>	Tunnels are denoted by a step above the elevation profile. The length of the step is the length of the tunnel. The above label is the name of the tunnel.
<b>Elevation Profile</b>	The elevation line shows the elevation against distance. This elevation is relative to sea level, and the vertical range across an entire basecode is fixed and will not change from diagram to diagram.
<b>Level Crossing</b>	Level crossings are denoted by a cross on top of a vertical line above the elevation profile. This marker indicates the centre of the level crossing. Level crossings can be subject to change, so these are provided as a guide only.
<b>Level Gradient</b>	A level gradient is a gradient with an absolute value greater or equal to 1:2500. Level gradients are denoted by an “L”.
<b>Route Name with Start and End Point Platform and Location</b>	<p>This is the title of the diagram. The route name is the start and finish point of the basecode. The stand and end points represent the distance covered by the diagram below.</p> <p>Platforms are denoted by a dashed vertical line leading up to a vertical label. Within the label, the platform name is indicated, followed by the kilometerage at platform centre. Both active and inactive platforms are included.</p>
<b>Gradient</b>	The gradient is shown as a “1 in” number. A positive gradient indicates an increase in elevation and a negative gradient gradient indicates a decrease in direction. The gradients are calculated between the solid vertical lines which are approximate vertical intersection points.
<b>Radius in Metres</b>	The curvature is represented by the radius, in metres. The curvature line is represented as the “inverse radius”. This means that tighter curves have more deviation from the centreline. The radius labels are not inverted however, and show the radius in metres. Compound curves are stepped. The radius values are rounded depending on magnitude. < 250 is rounded to the nearest 2m, < 350 to the nearest 5m and >500 to the nearest 10m.
<b>Centreline</b>	The gray line on the radius plot incidicates a radius of 0. This line is included to increase the readability of curvature values.
<b>Left Curve</b>	Curves above the centreline indicate a left hand direction.
<b>Right Curve</b>	Curves below the centreline indicate a right hand direction.

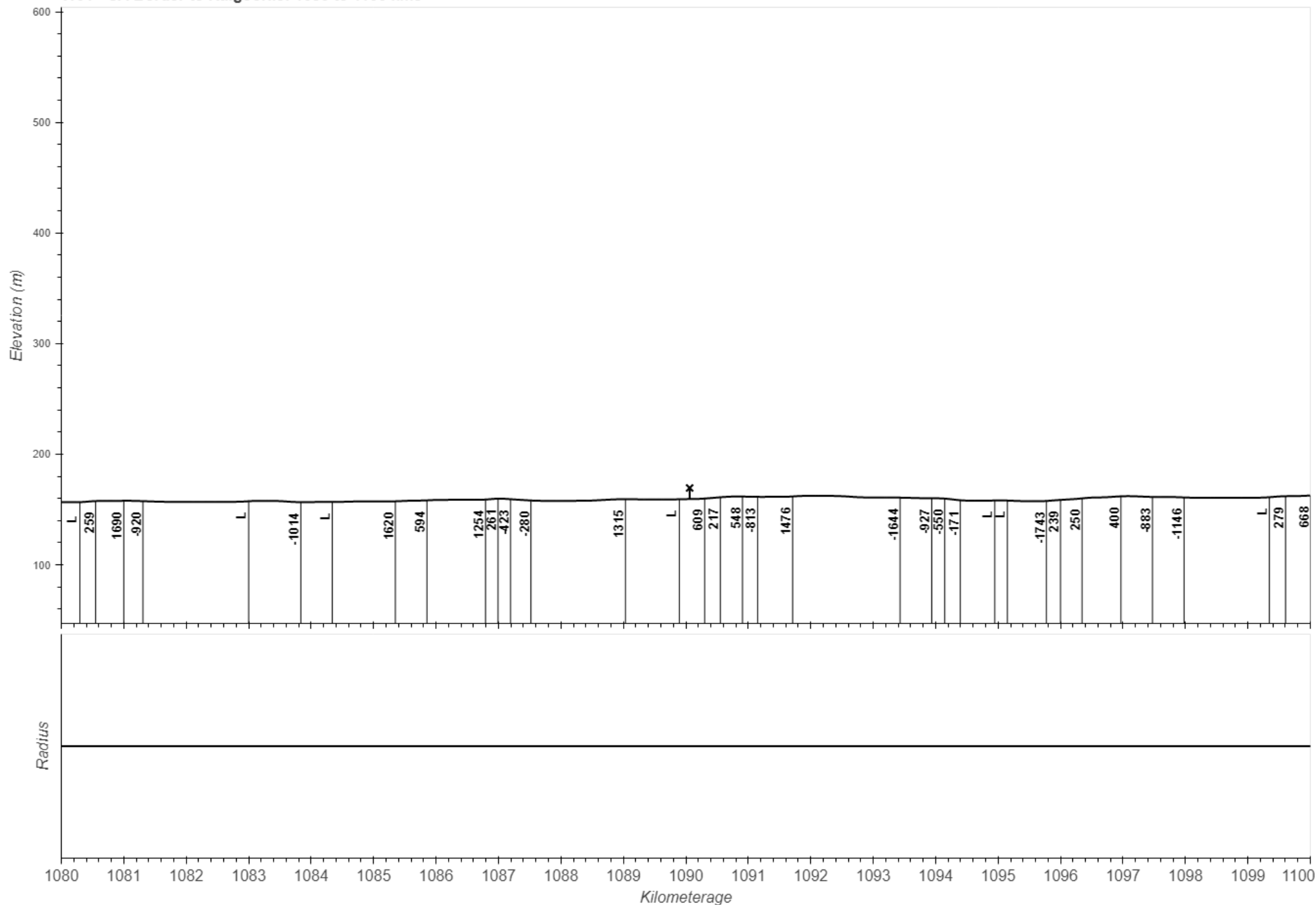
W01 - SA Border to Kalgoorlie: 1040 to 1060 kms



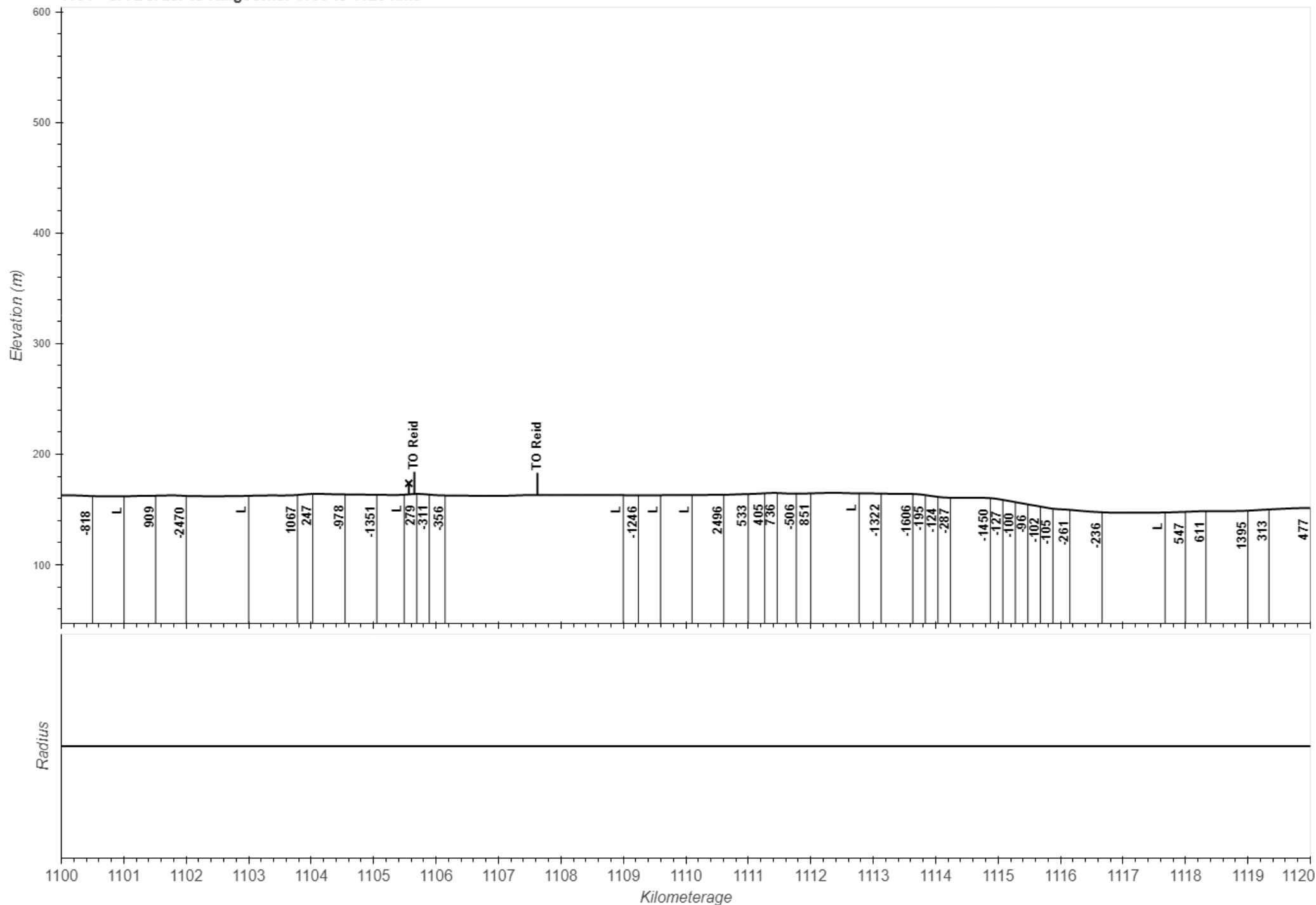
W01 - SA Border to Kalgoorlie: 1060 to 1080 kms



W01 - SA Border to Kalgoorlie: 1080 to 1100 kms

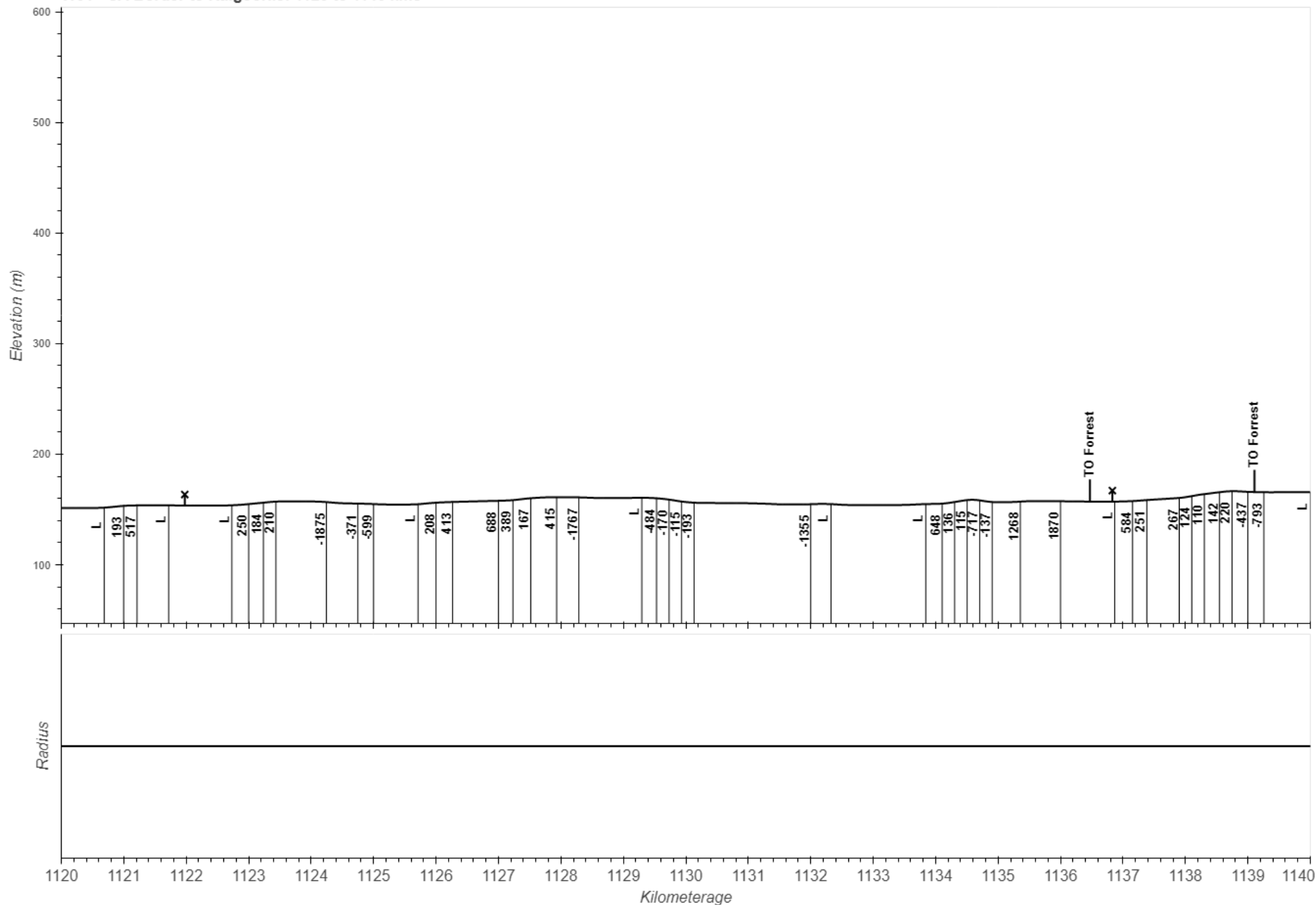


# W01 - SA Border to Kalgoorlie: 1100 to 1120 kms

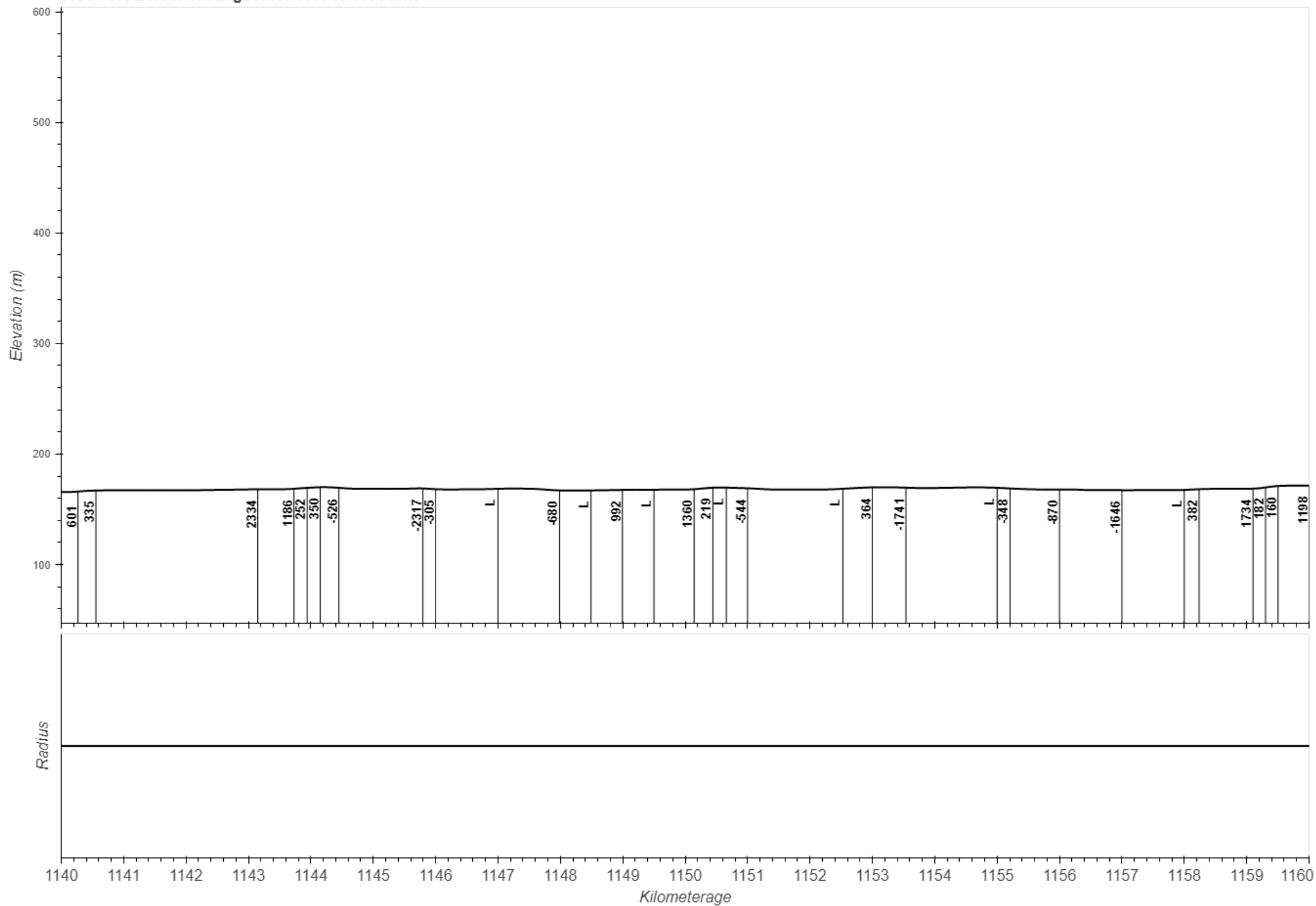




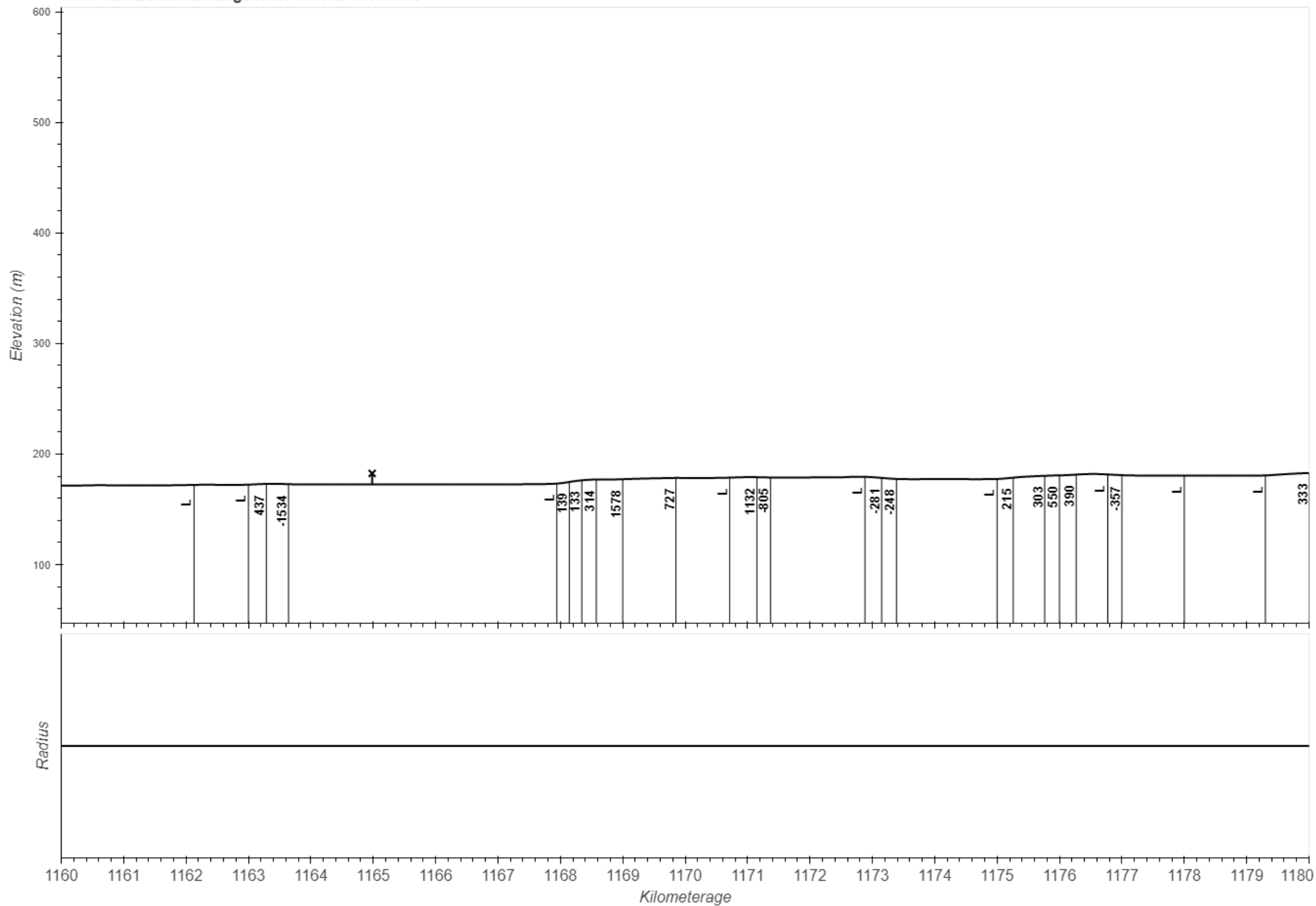
# W01 - SA Border to Kalgoorlie: 1120 to 1140 kms



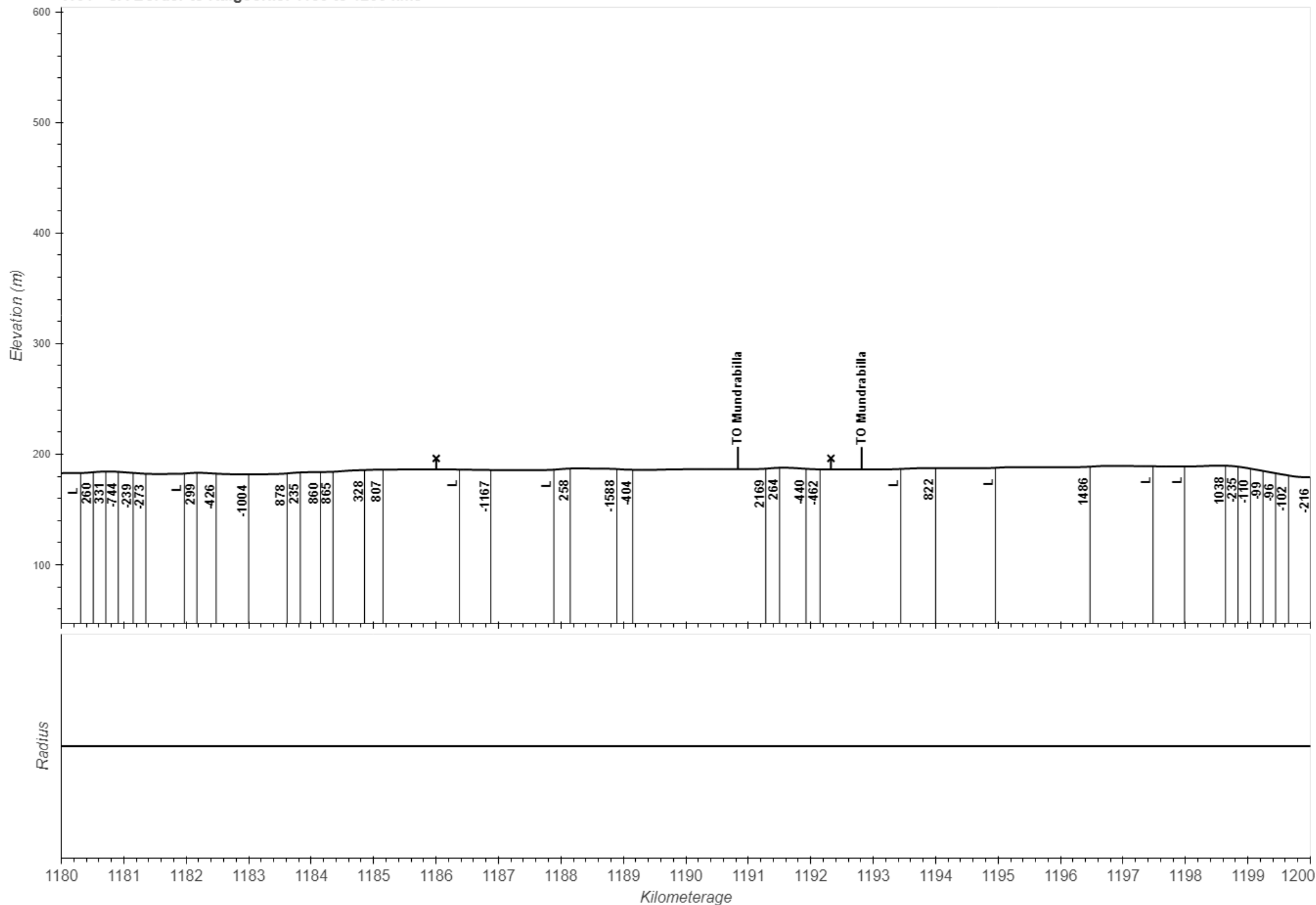
W01 - SA Border to Kalgoorlie: 1140 to 1160 kms



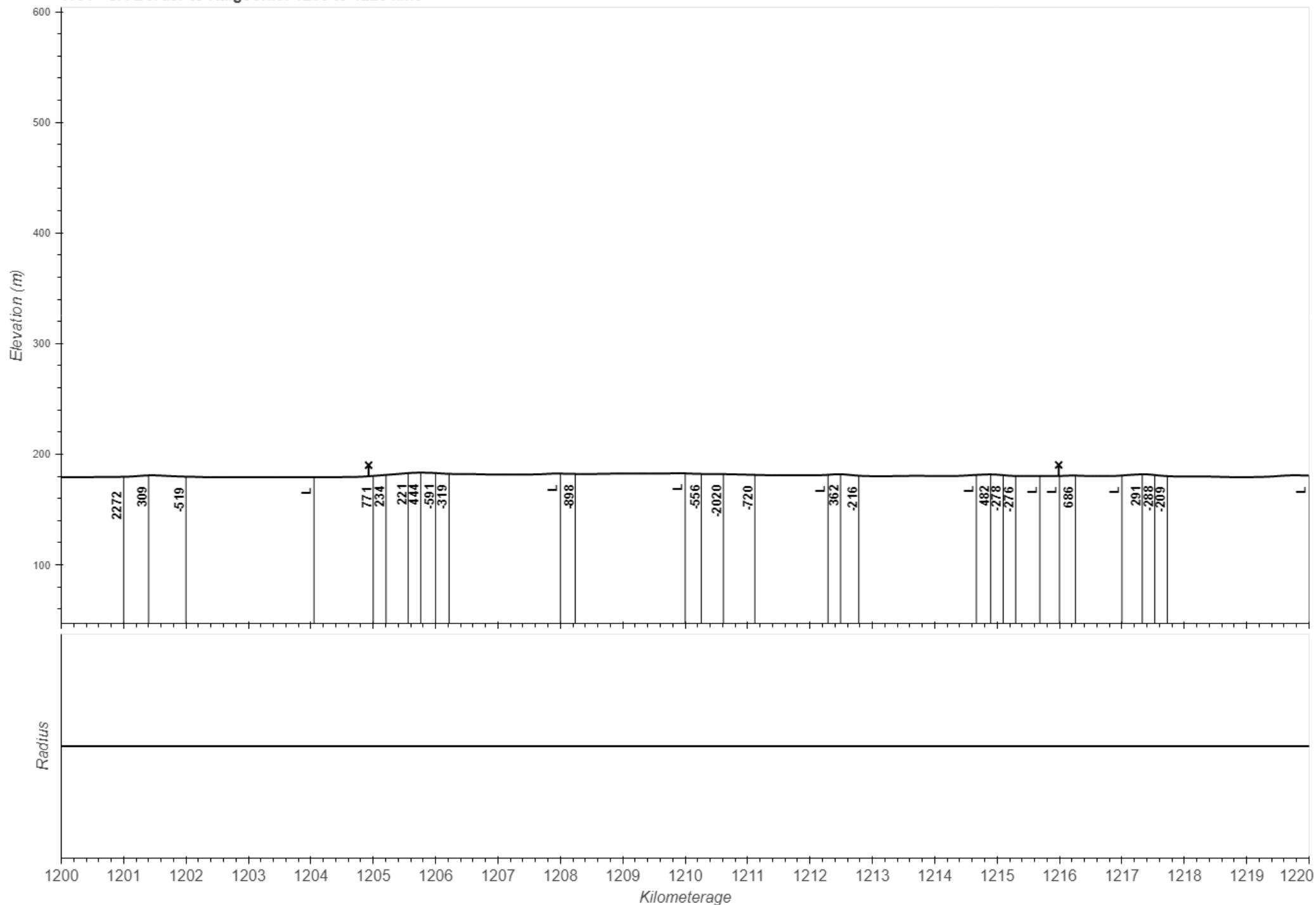
W01 - SA Border to Kalgoorlie: 1160 to 1180 kms



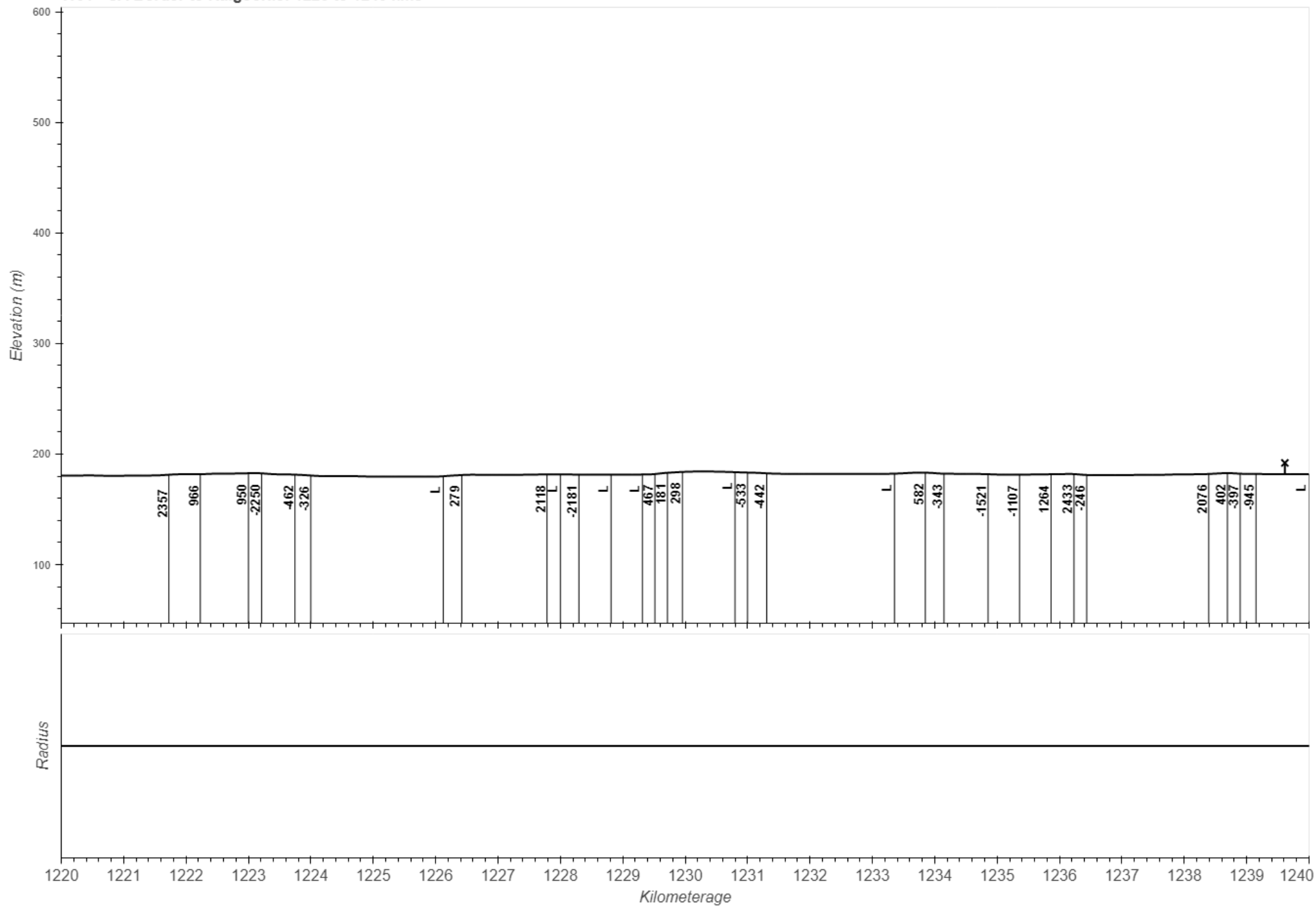
# W01 - SA Border to Kalgoorlie: 1180 to 1200 kms



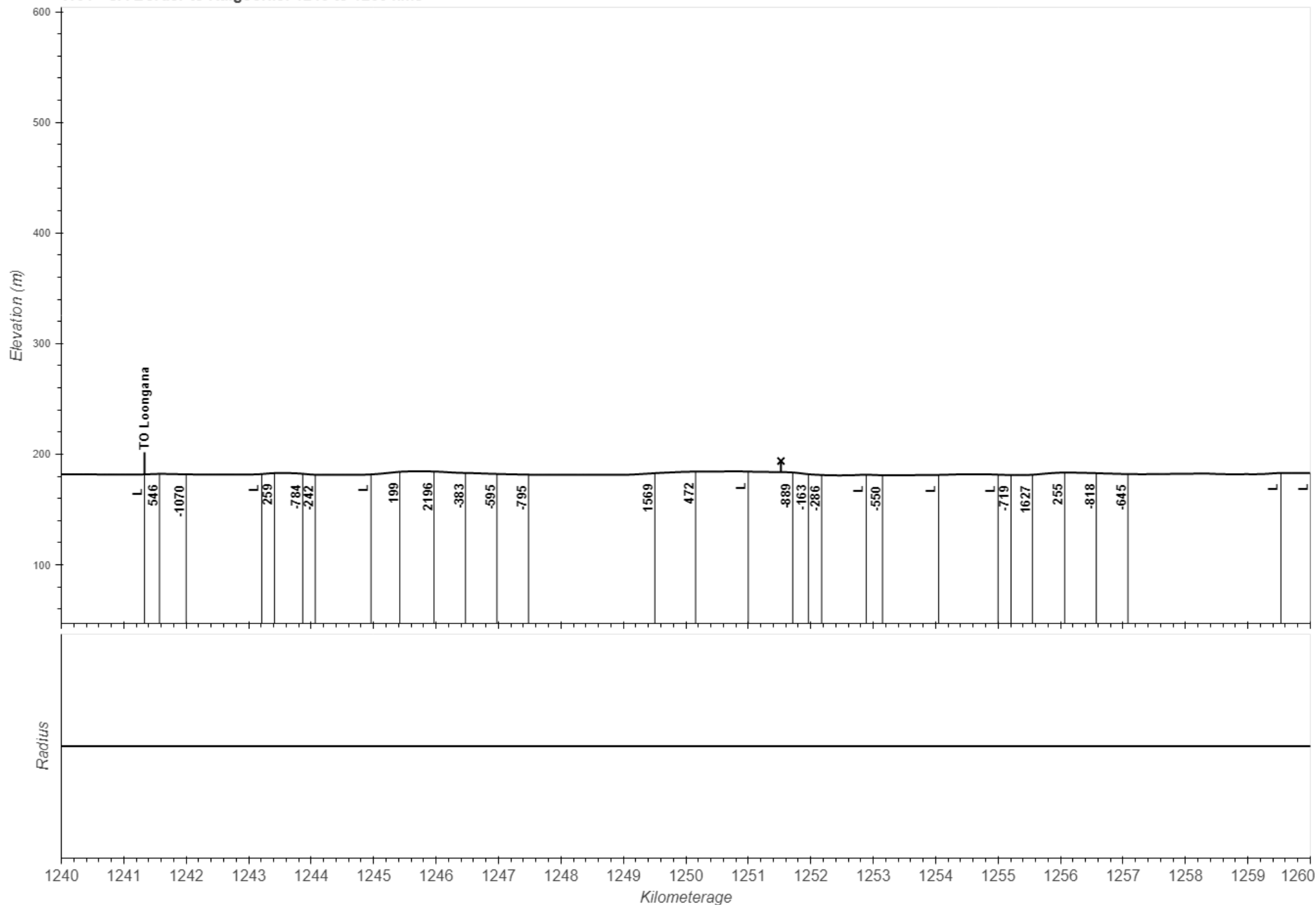
W01 - SA Border to Kalgoorlie: 1200 to 1220 kms



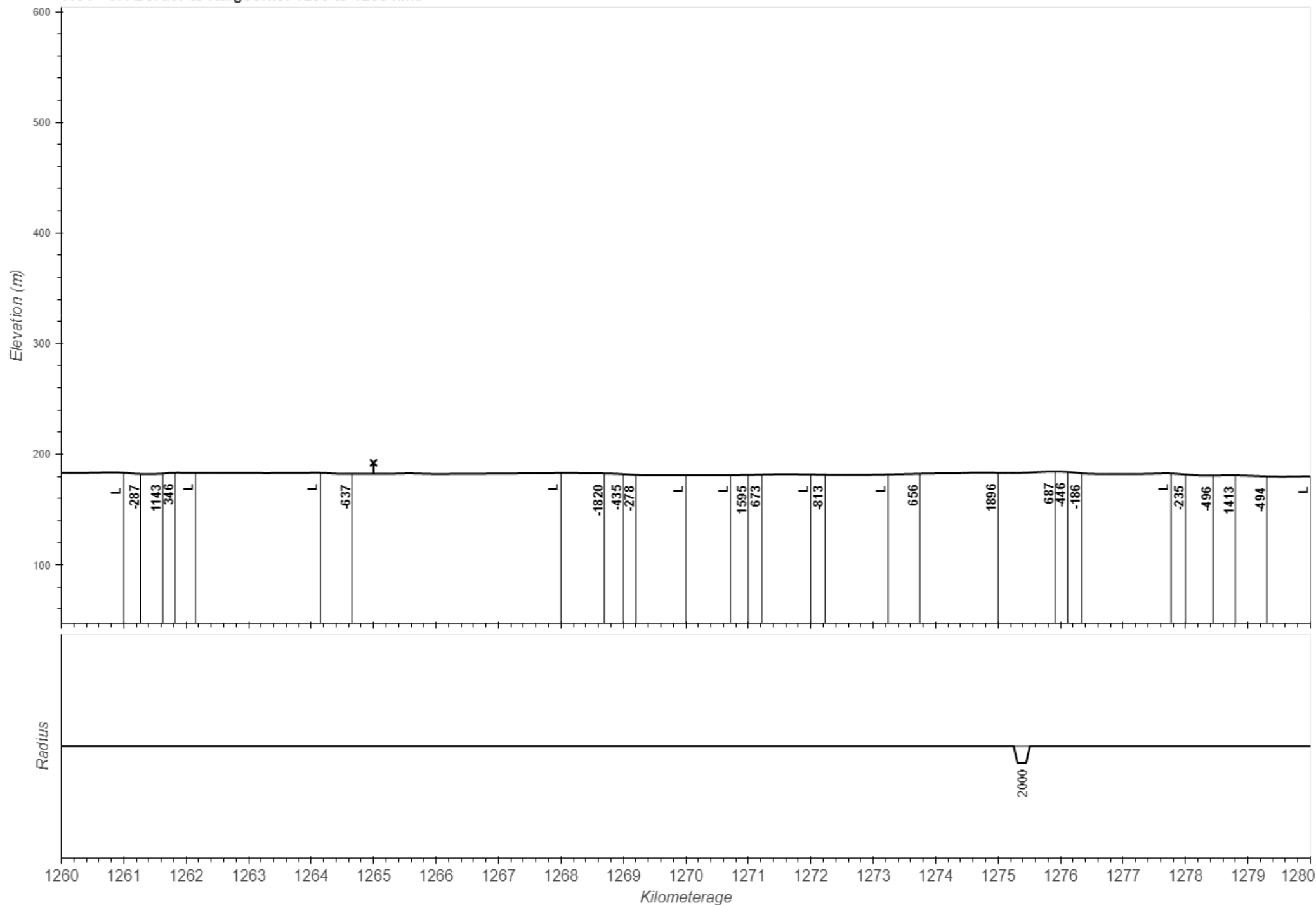
W01 - SA Border to Kalgoorlie: 1220 to 1240 kms



W01 - SA Border to Kalgoorlie: 1240 to 1260 kms

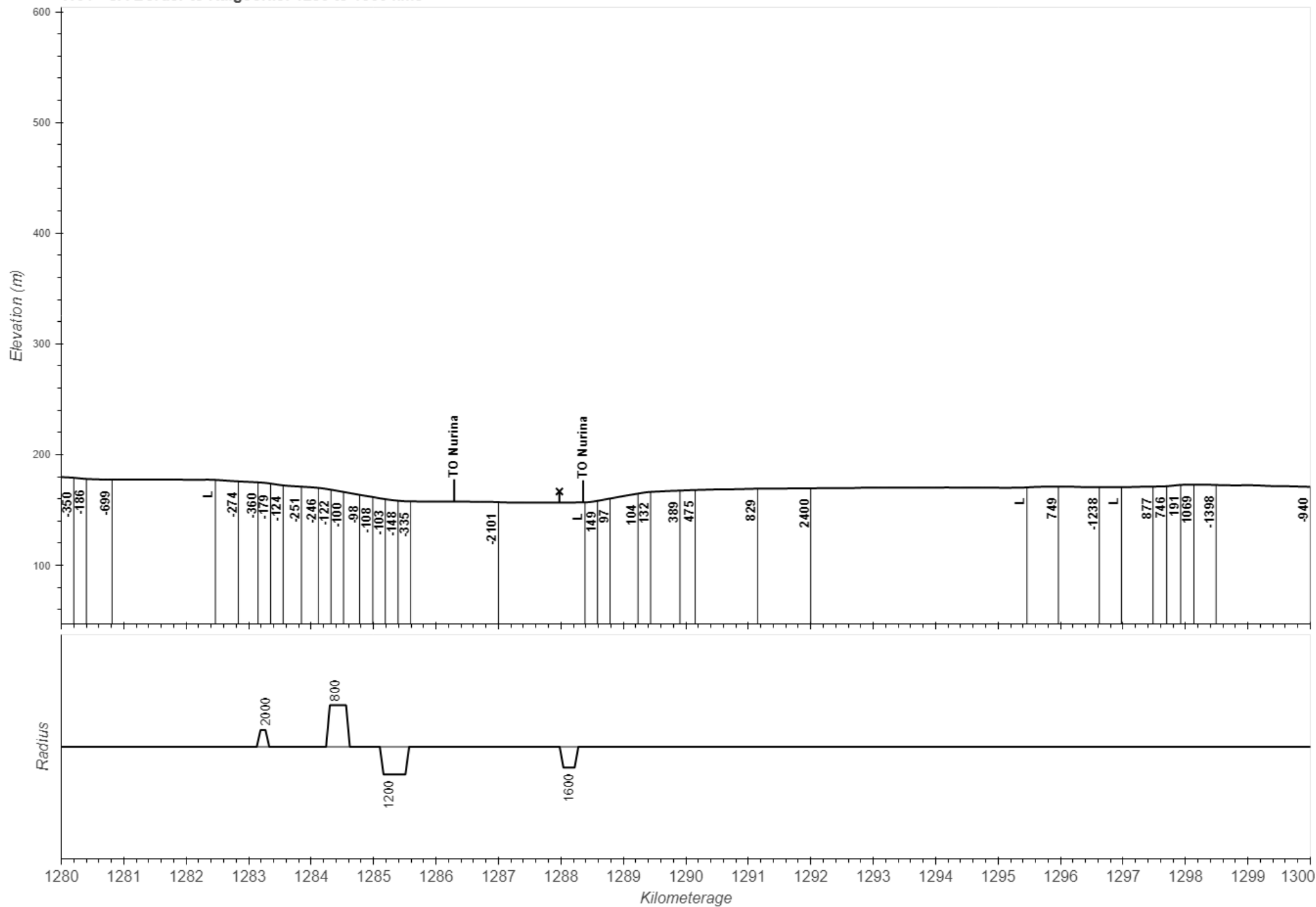


# W01 - SA Border to Kalgoorlie: 1260 to 1280 kms

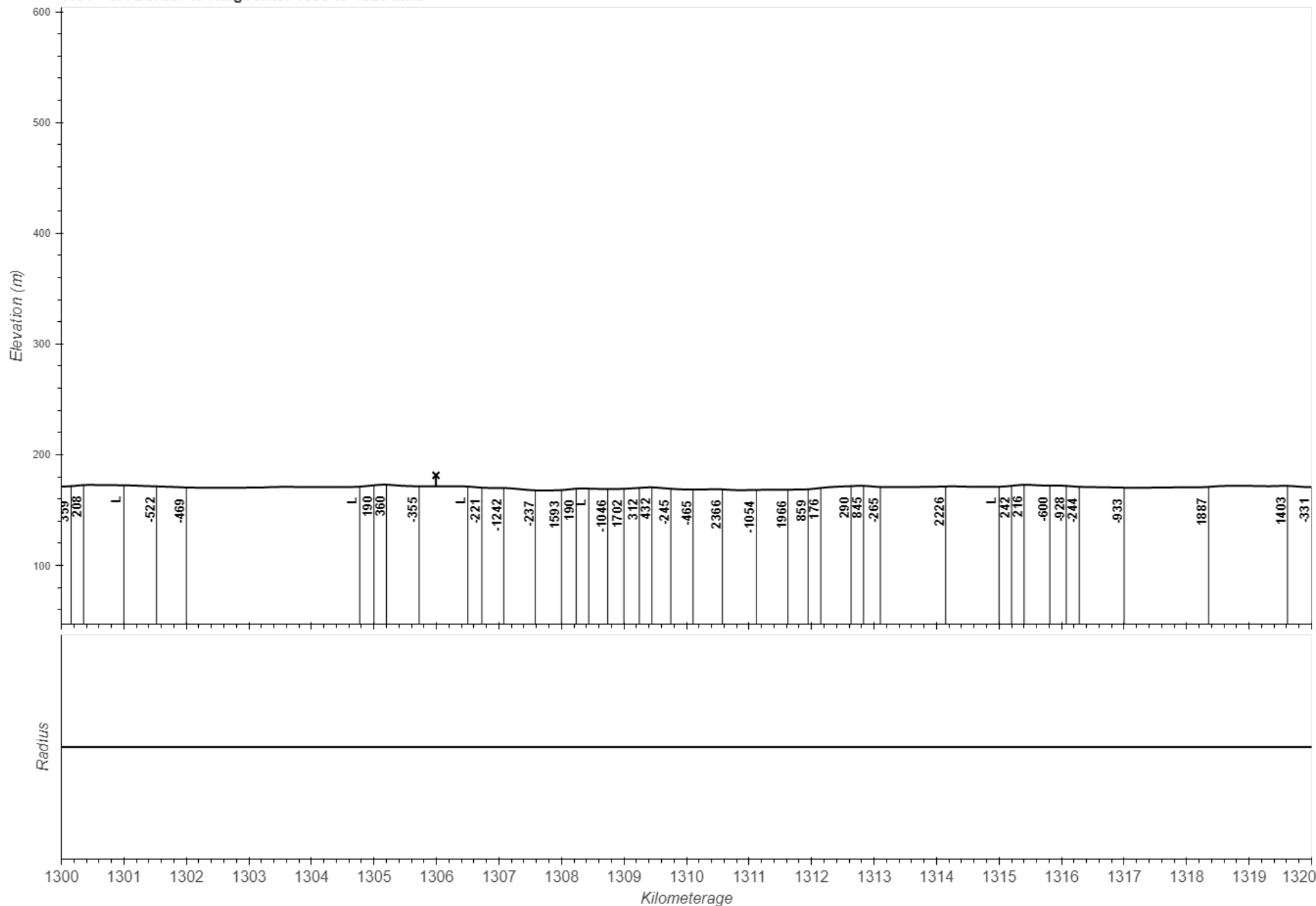




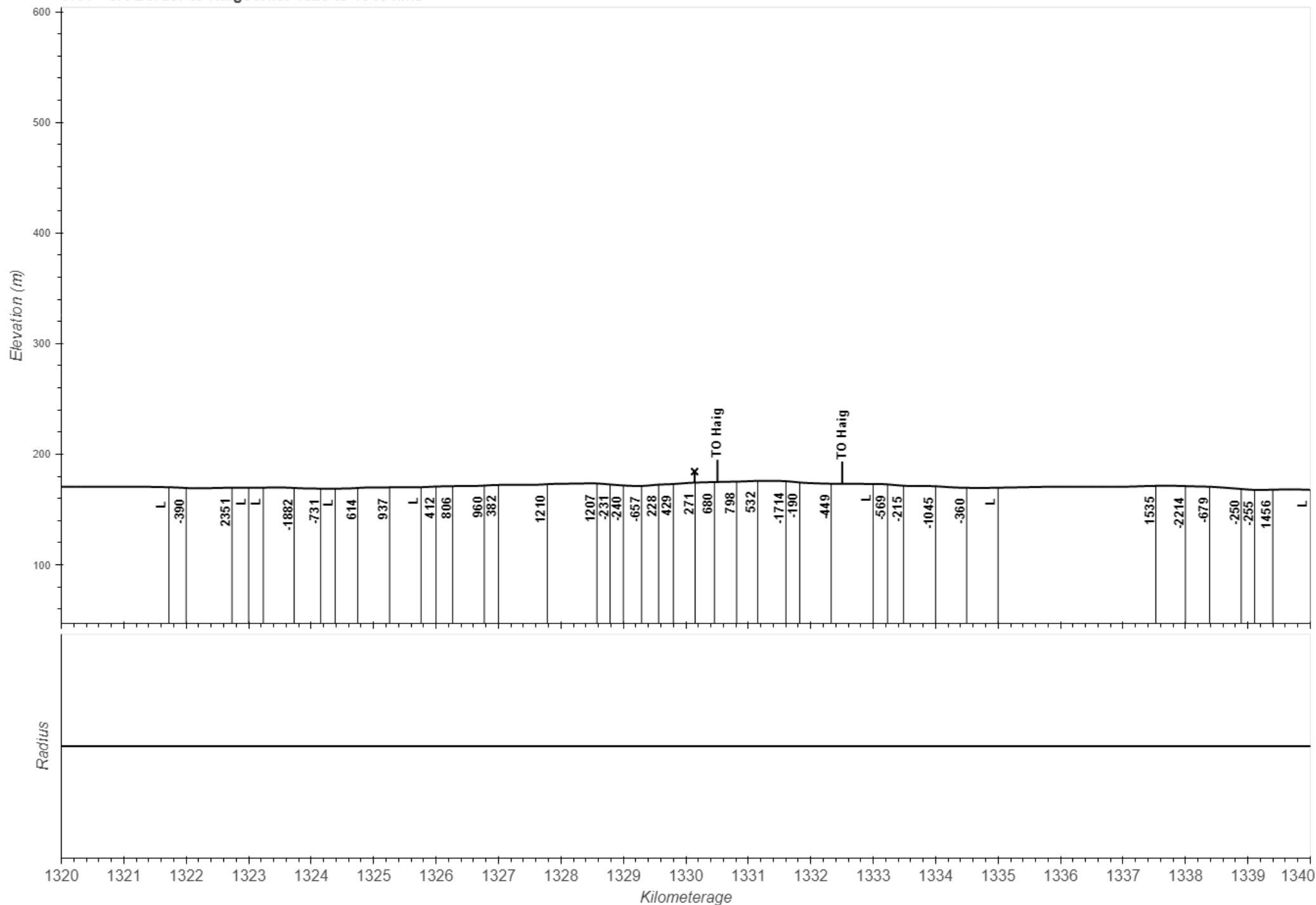
W01 - SA Border to Kalgoorlie: 1280 to 1300 kms



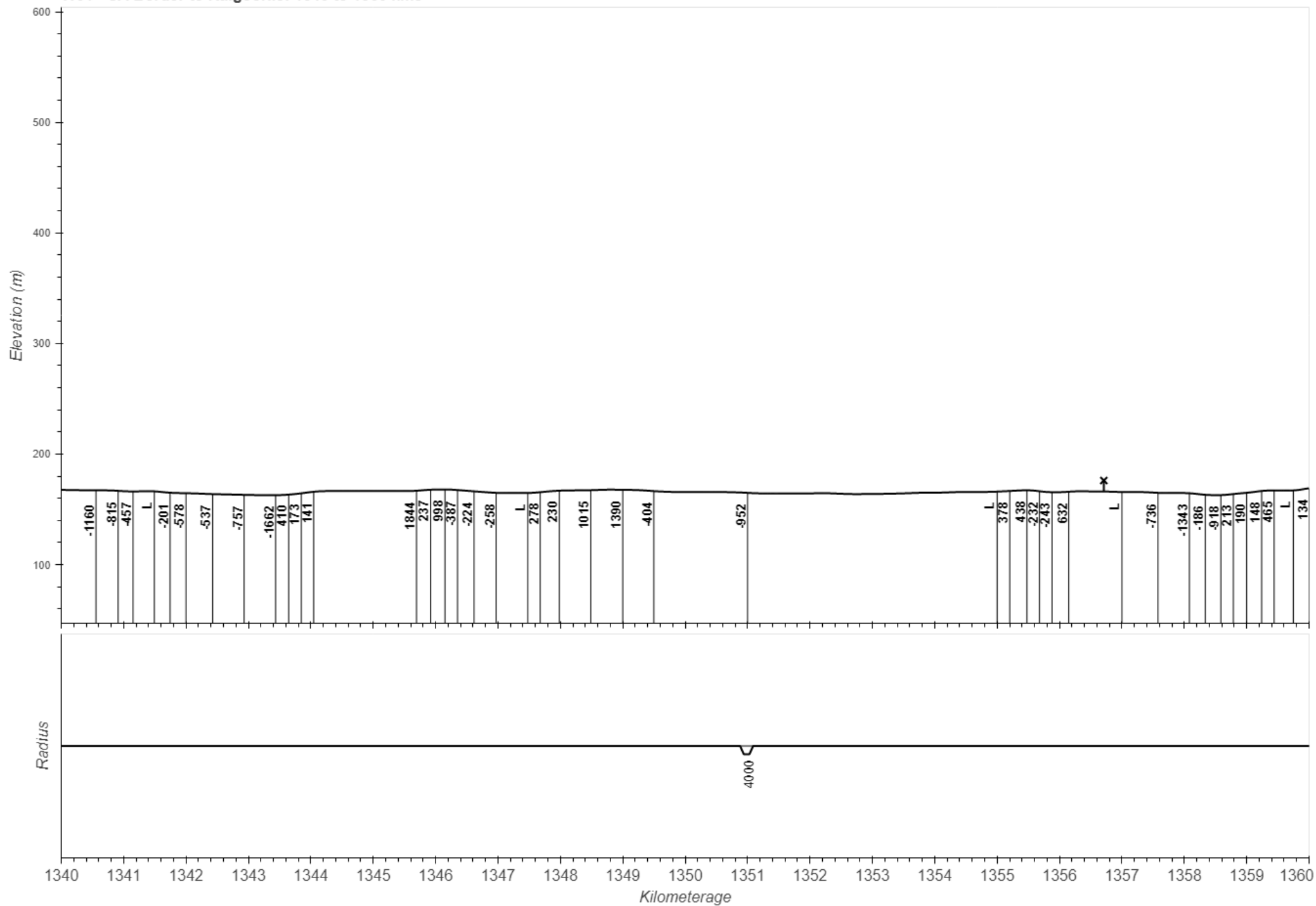
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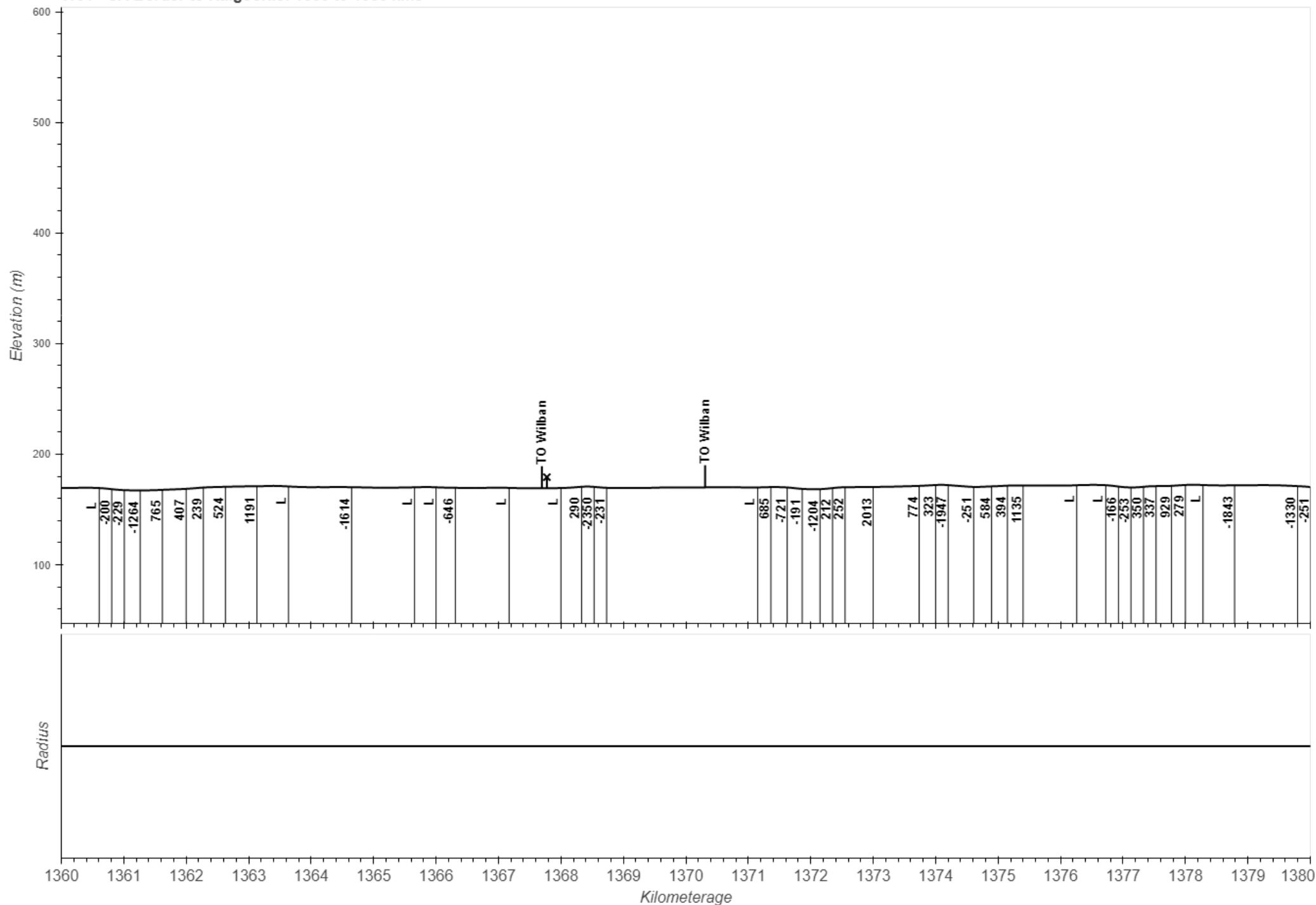
# W01 - SA Border to Kalgoorlie: 1320 to 1340 kms



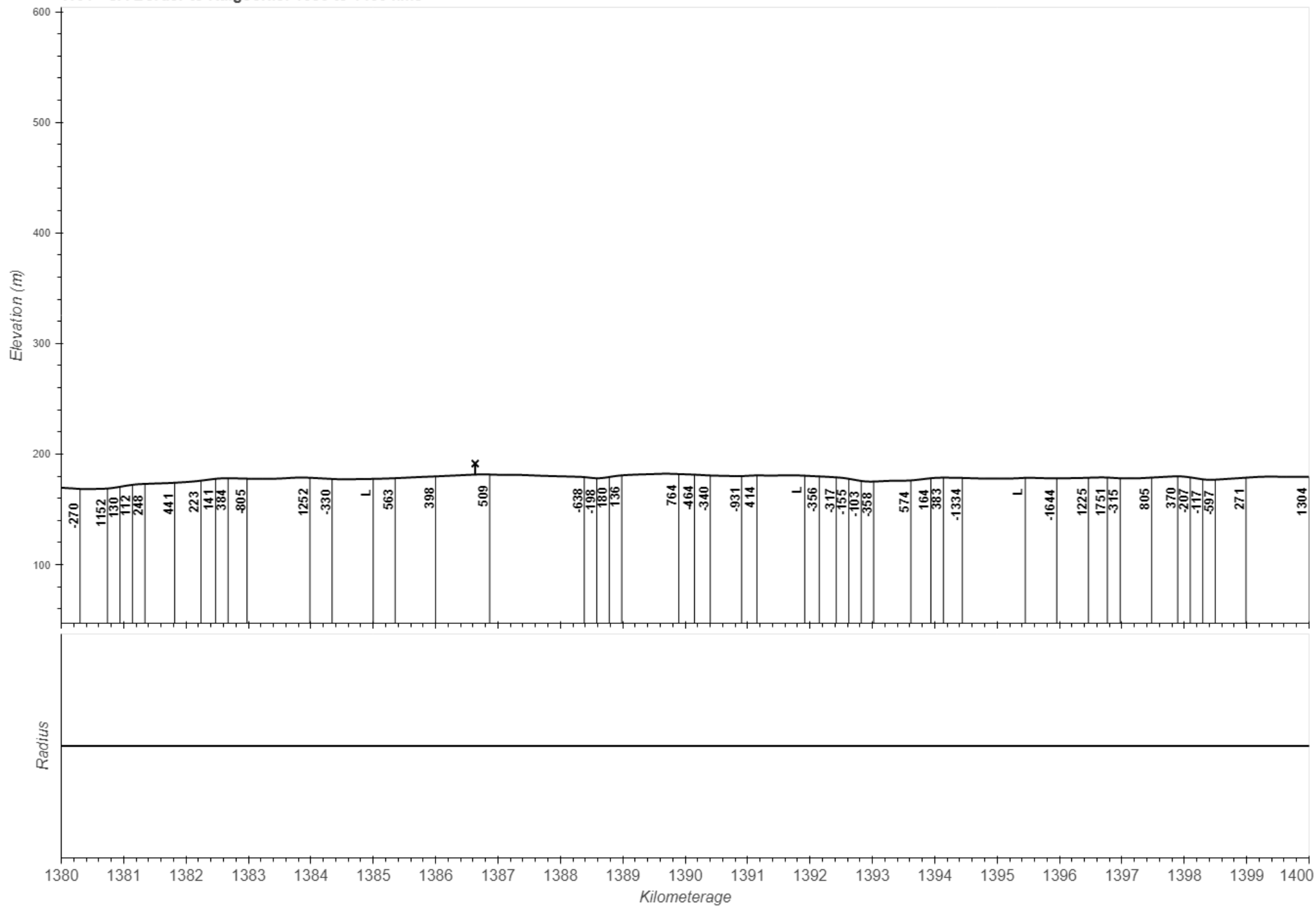
W01 - SA Border to Kalgoorlie: 1340 to 1360 kms



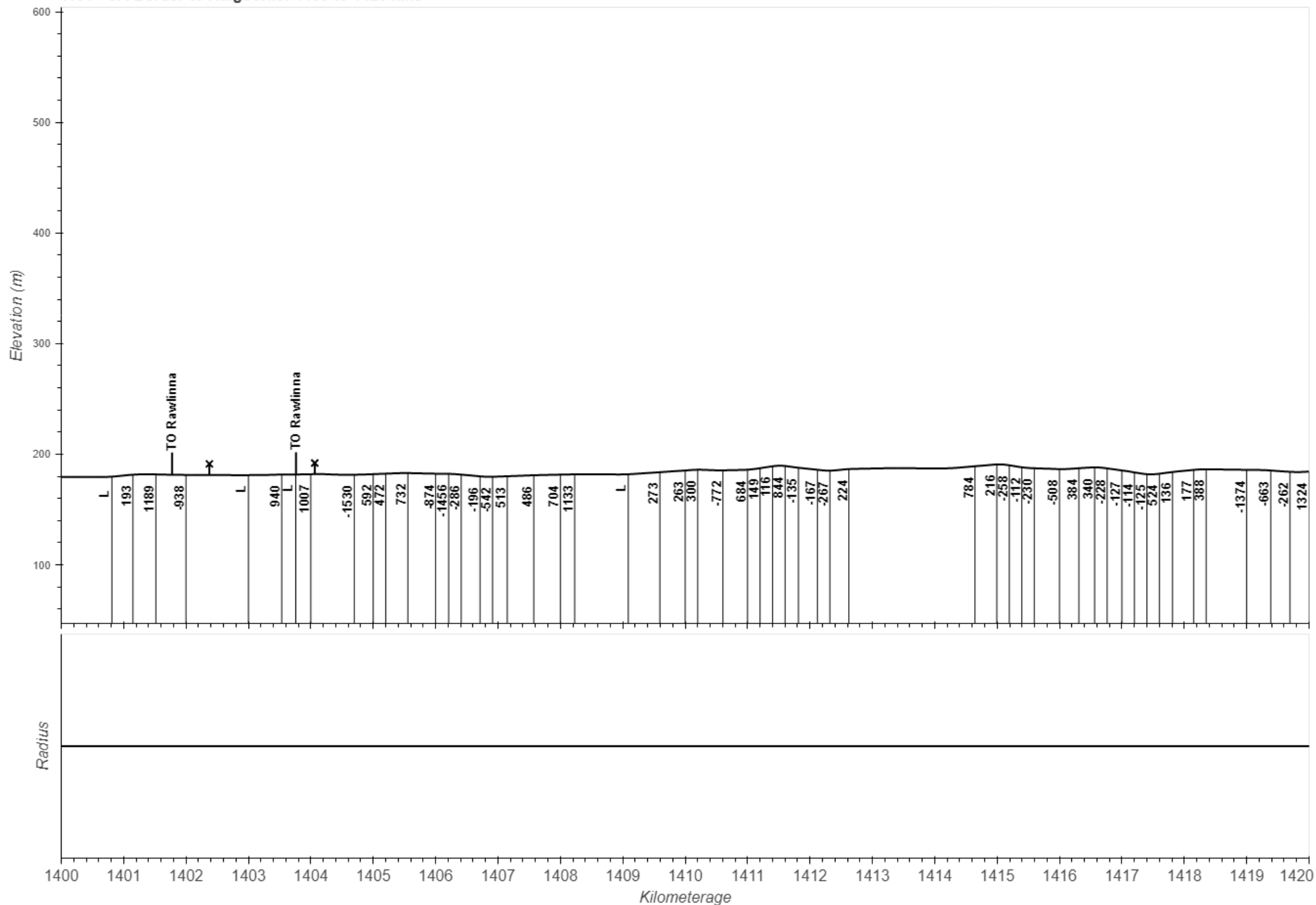
# W01 - SA Border to Kalgoorlie: 1360 to 1380 kms



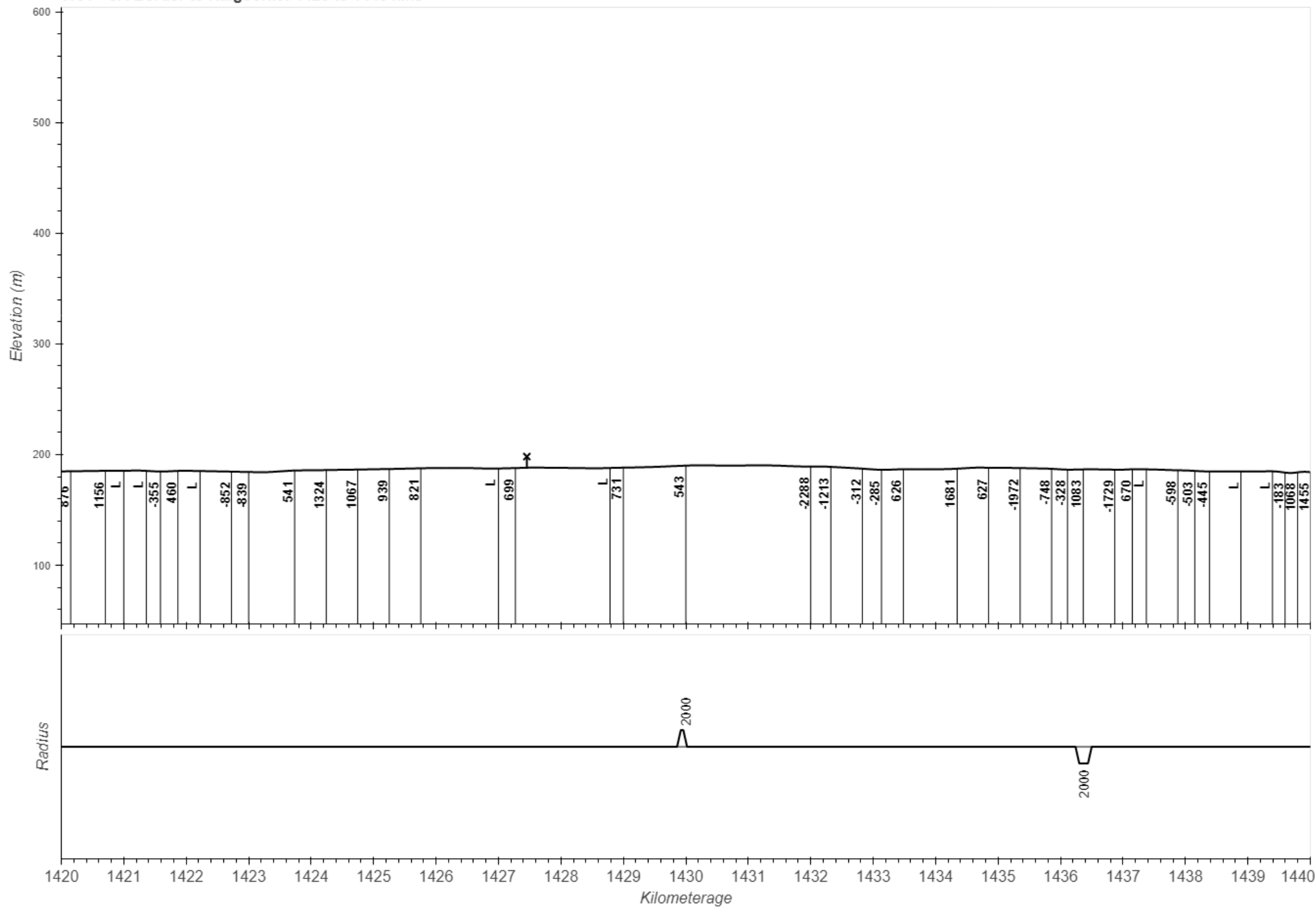
W01 - SA Border to Kalgoorlie: 1380 to 1400 kms



W01 - SA Border to Kalgoorlie: 1400 to 1420 kms

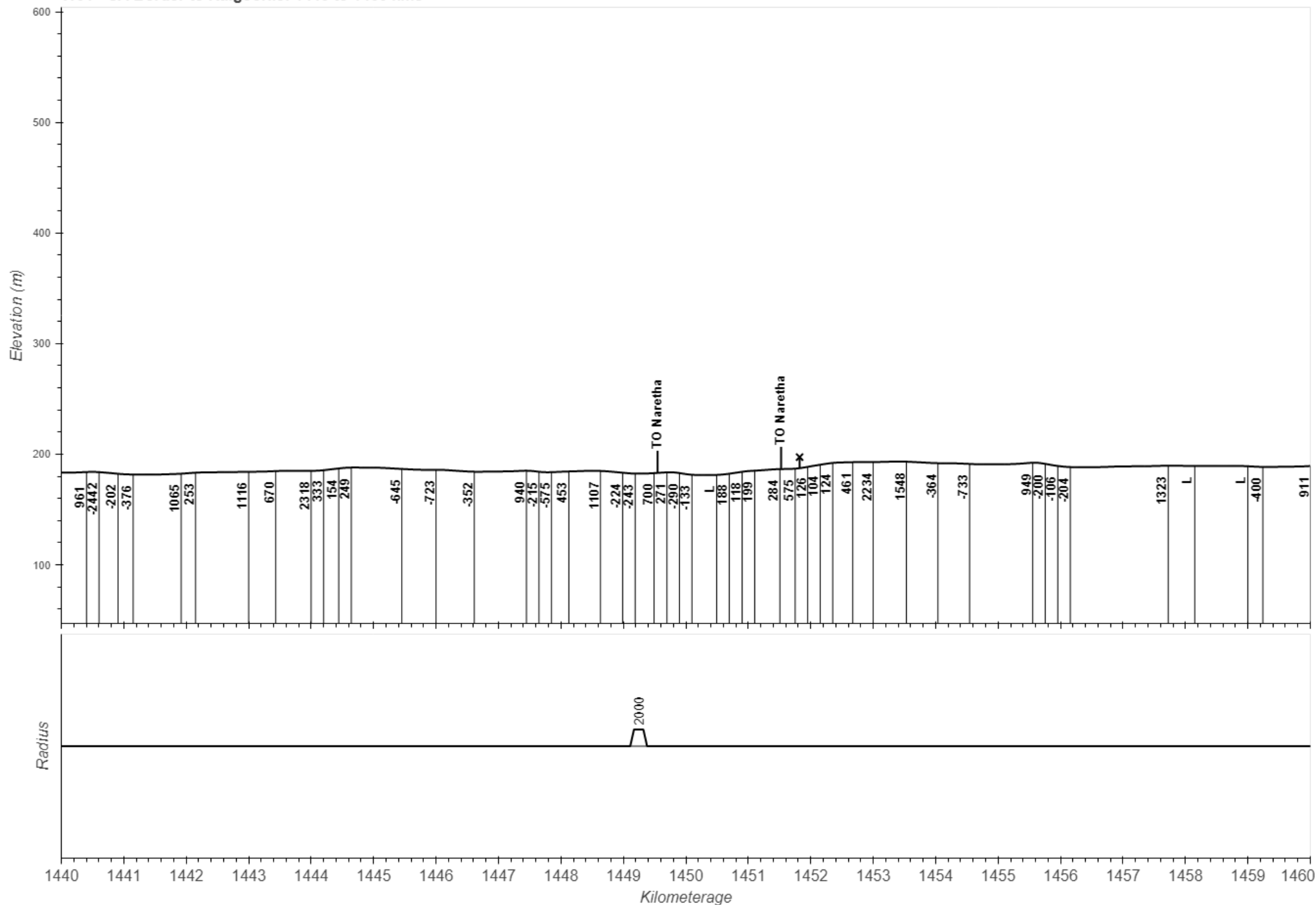


W01 - SA Border to Kalgoorlie: 1420 to 1440 kms

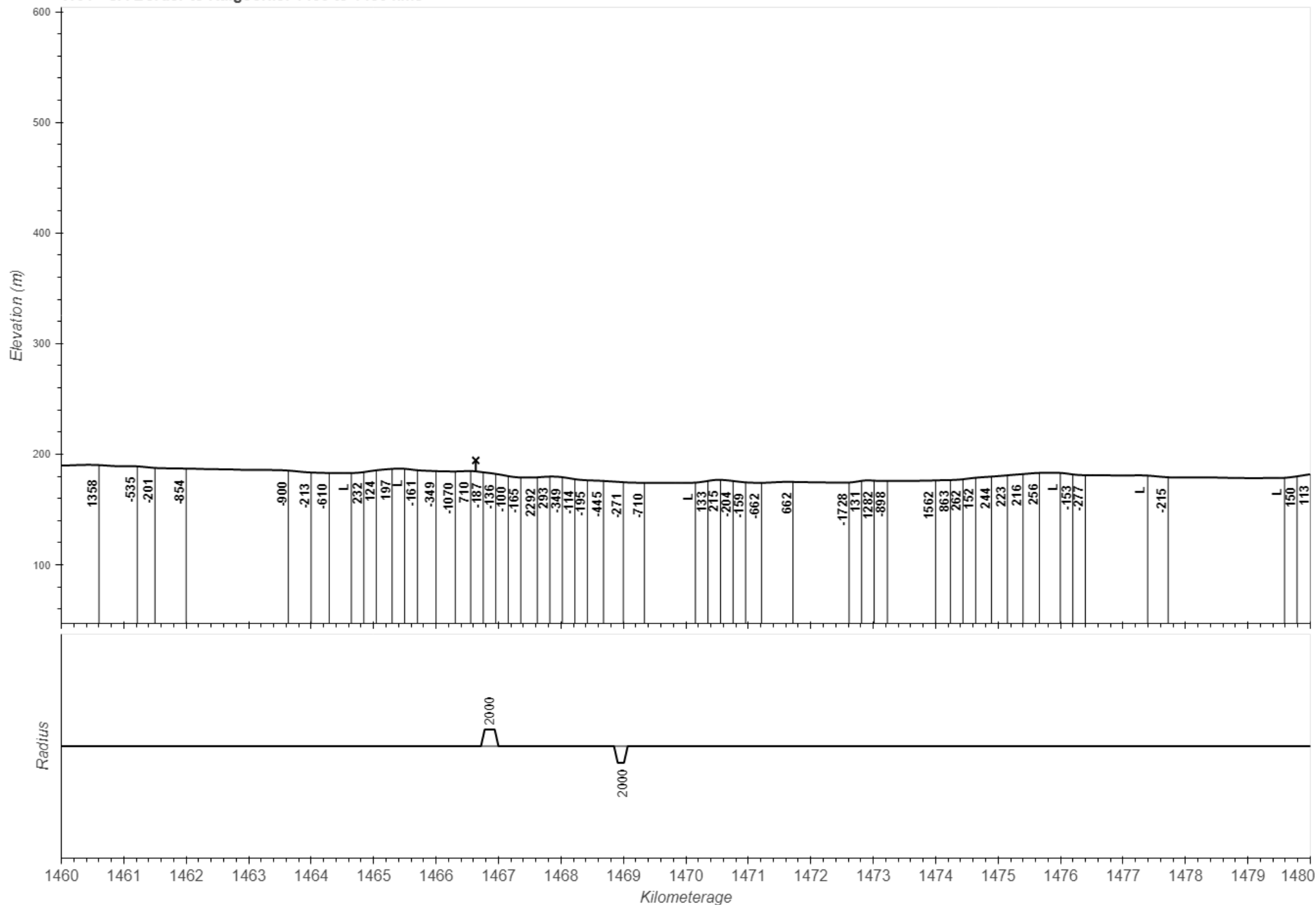




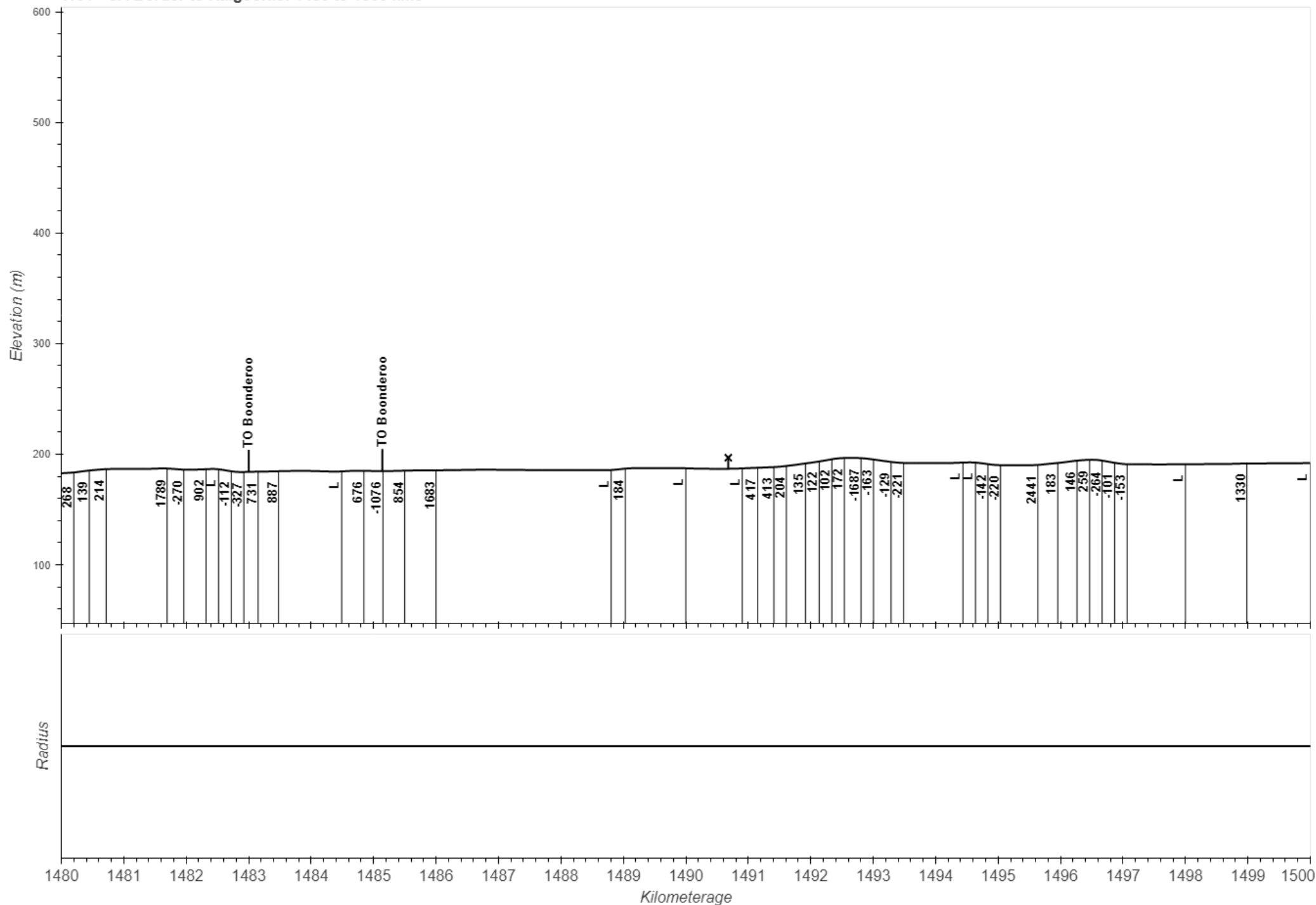
# W01 - SA Border to Kalgoorlie: 1440 to 1460 kms



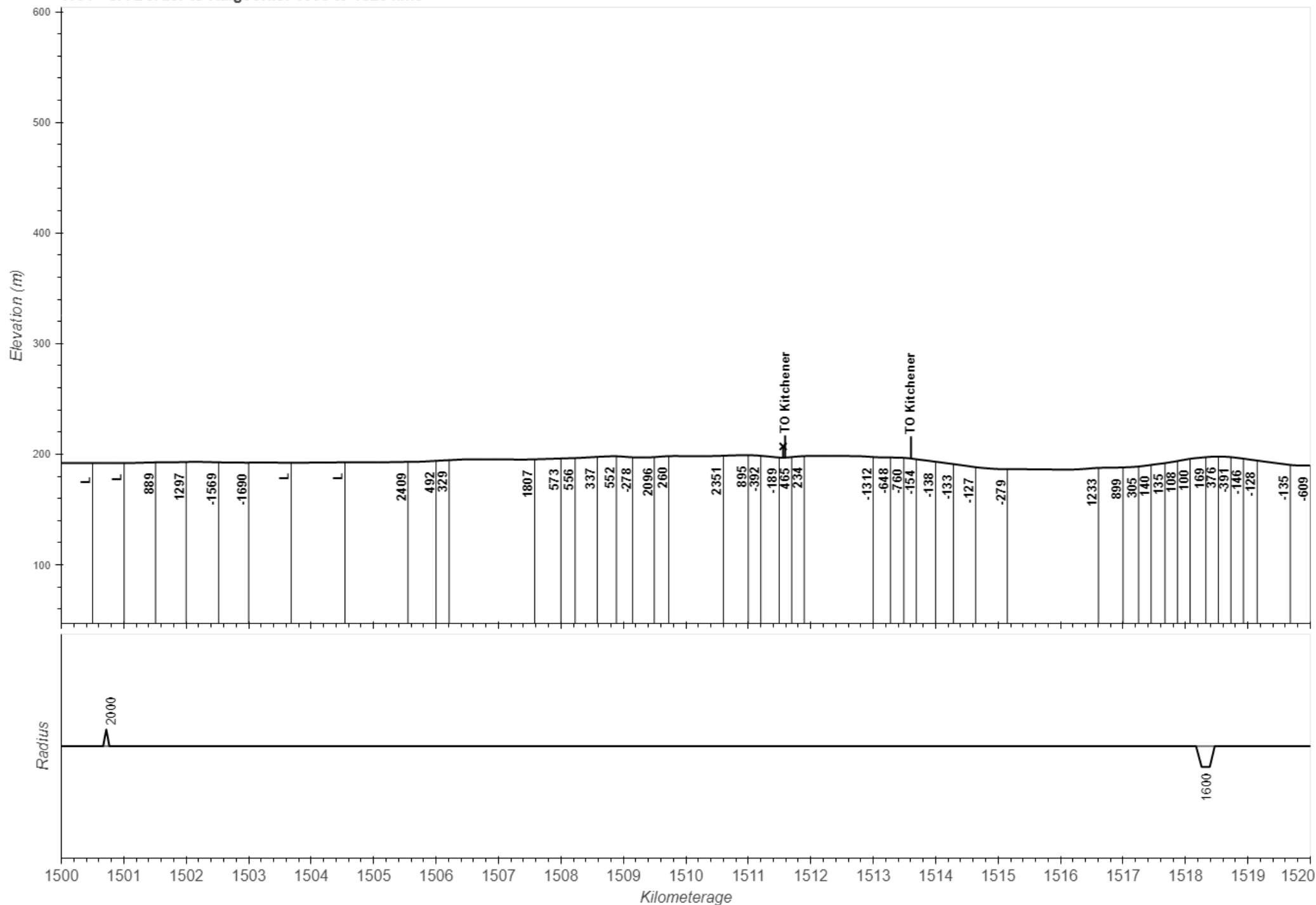
# W01 - SA Border to Kalgoorlie: 1460 to 1480 kms



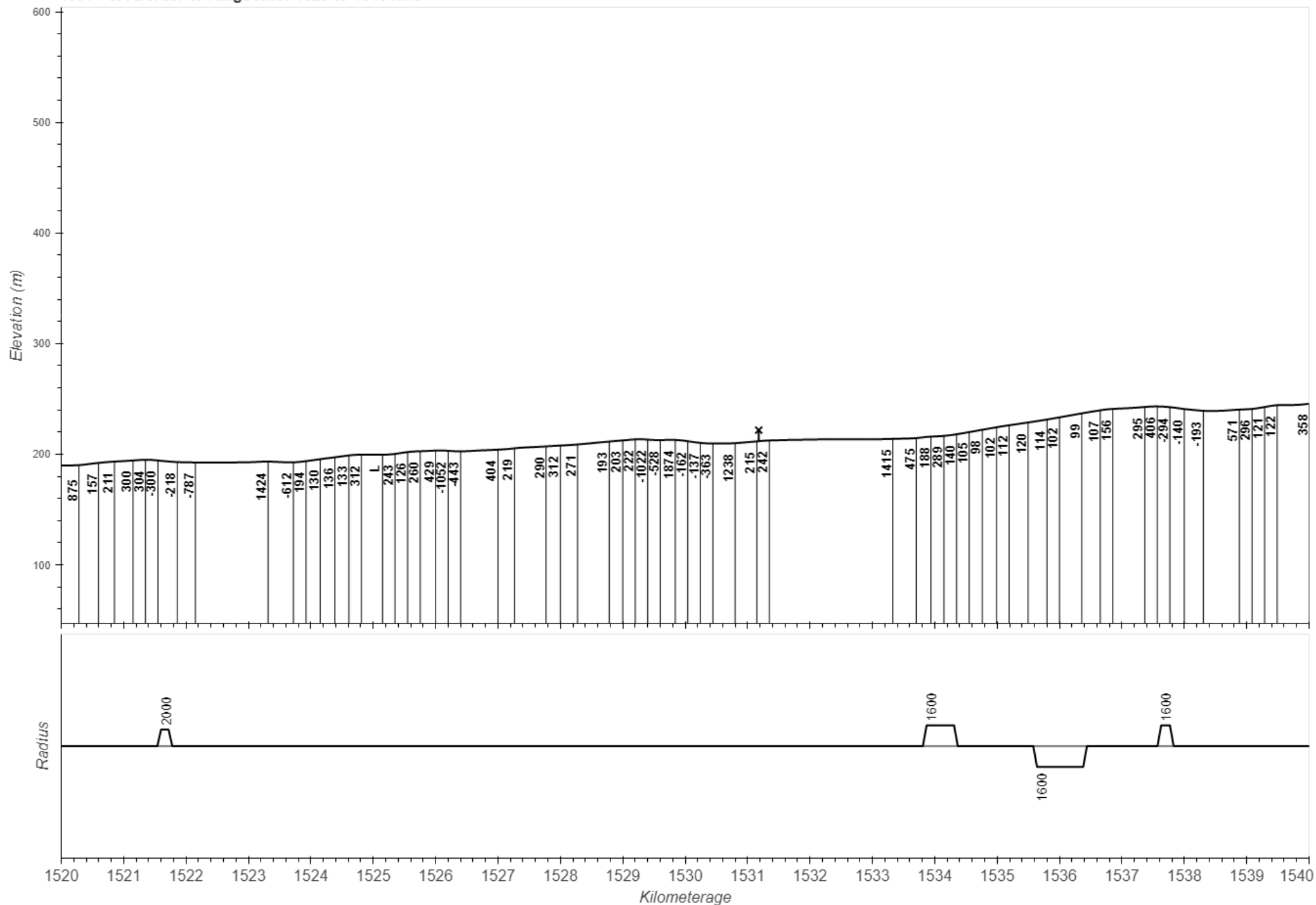
# W01 - SA Border to Kalgoorlie: 1480 to 1500 kms



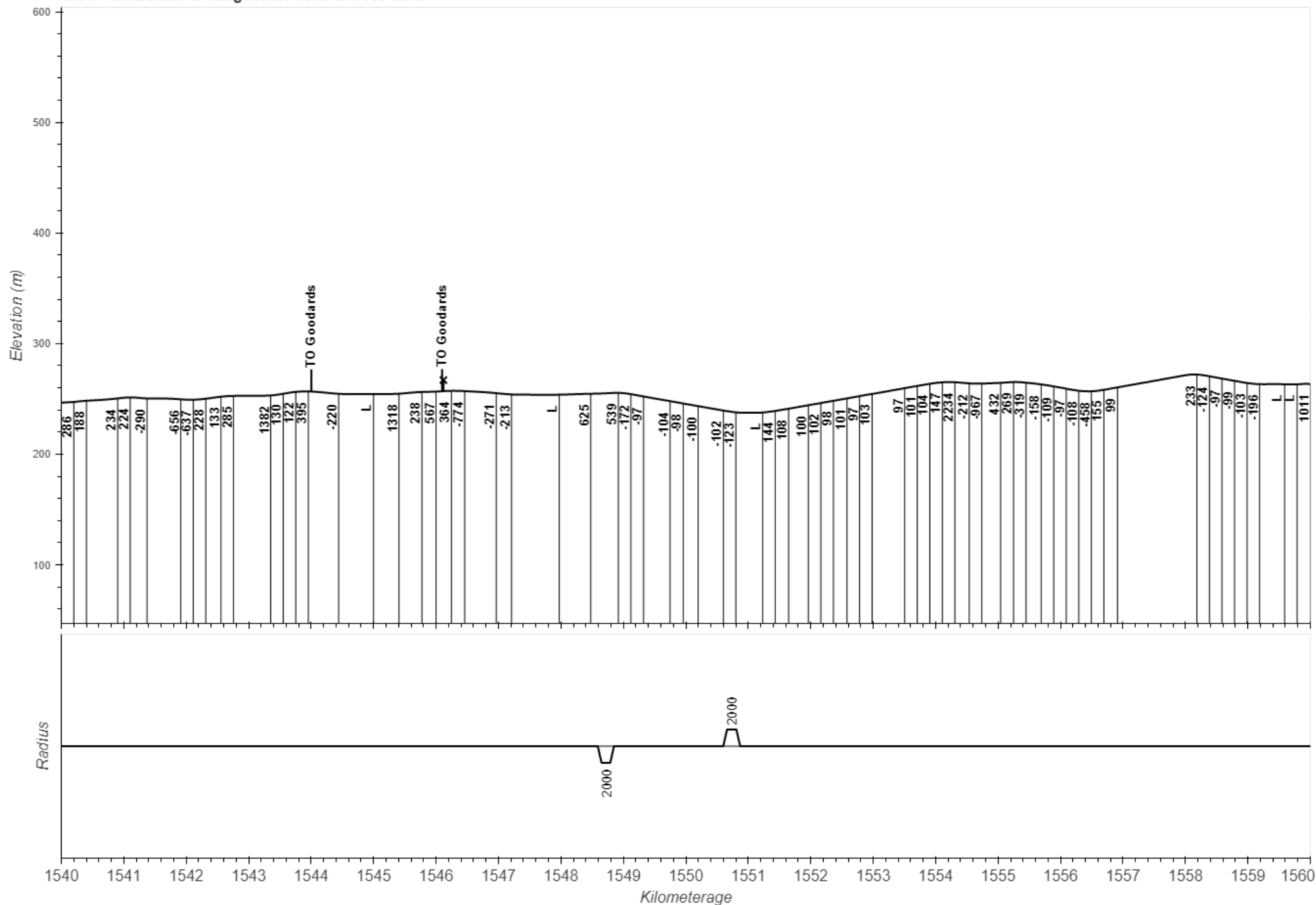
# W01 - SA Border to Kalgoorlie: 1500 to 1520 kms



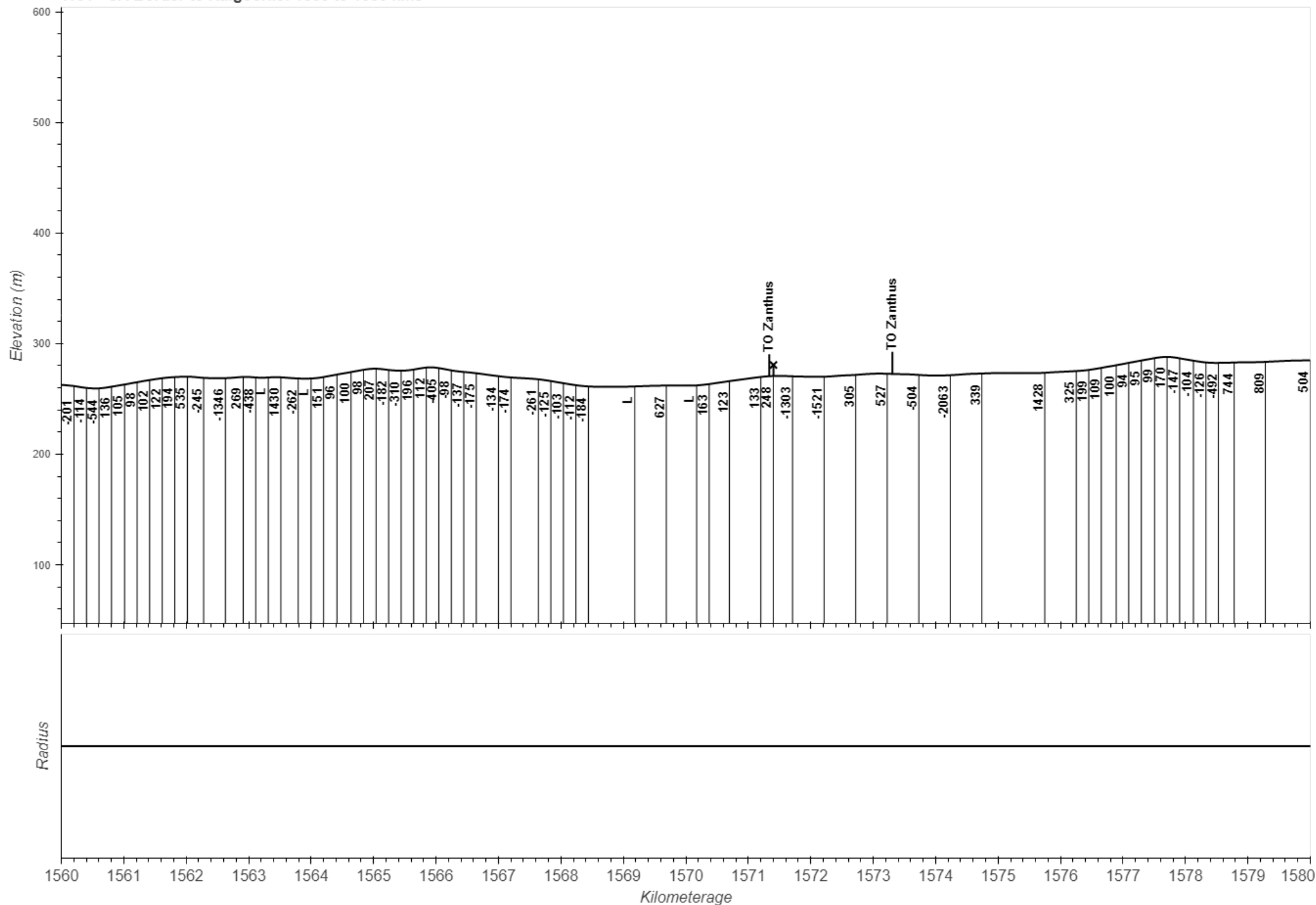
W01 - SA Border to Kalgoorlie: 1520 to 1540 kms



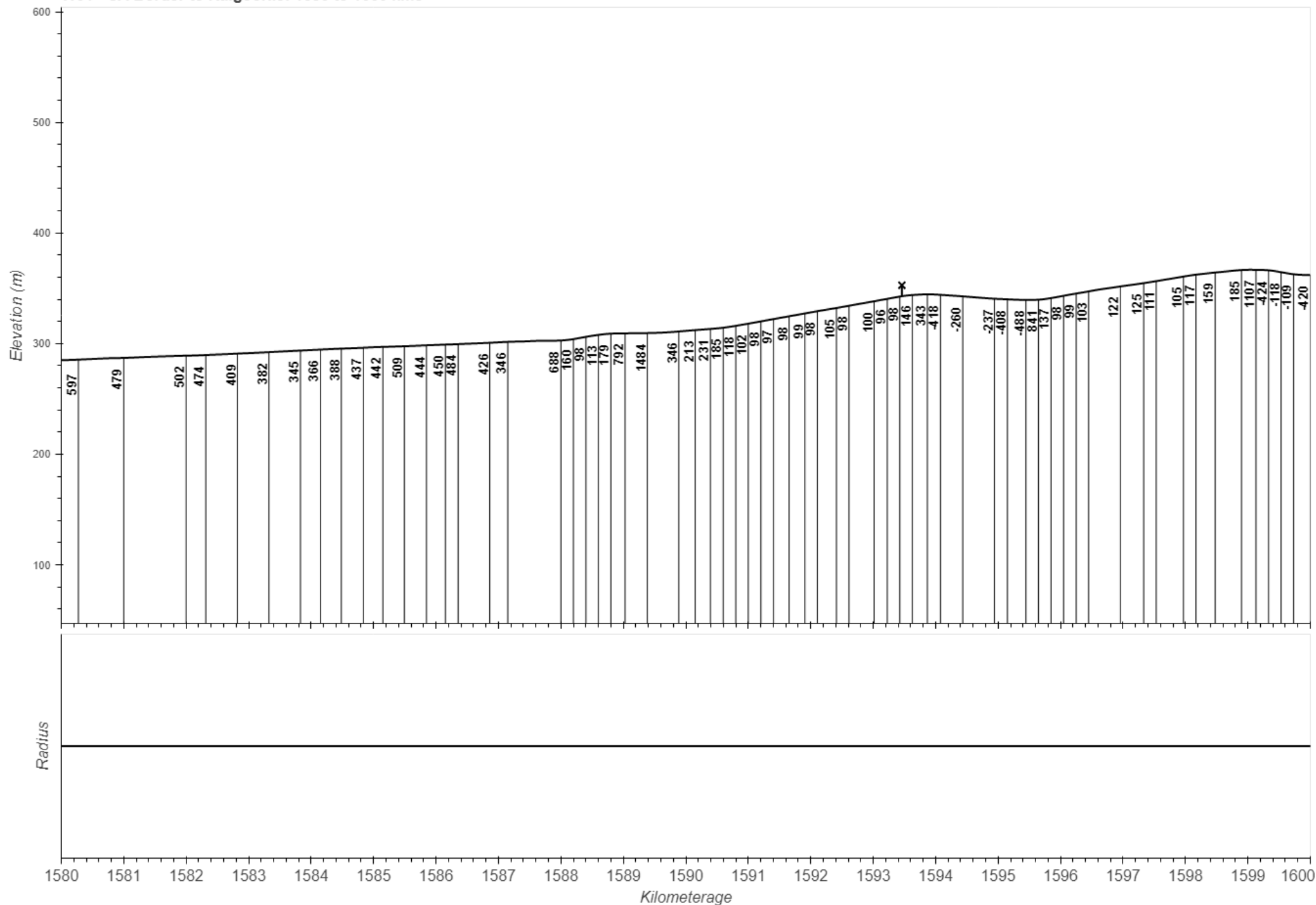
W01 - SA Border to Kalgoorlie: 1540 to 1560 kms



W01 - SA Border to Kalgoorlie: 1560 to 1580 kms

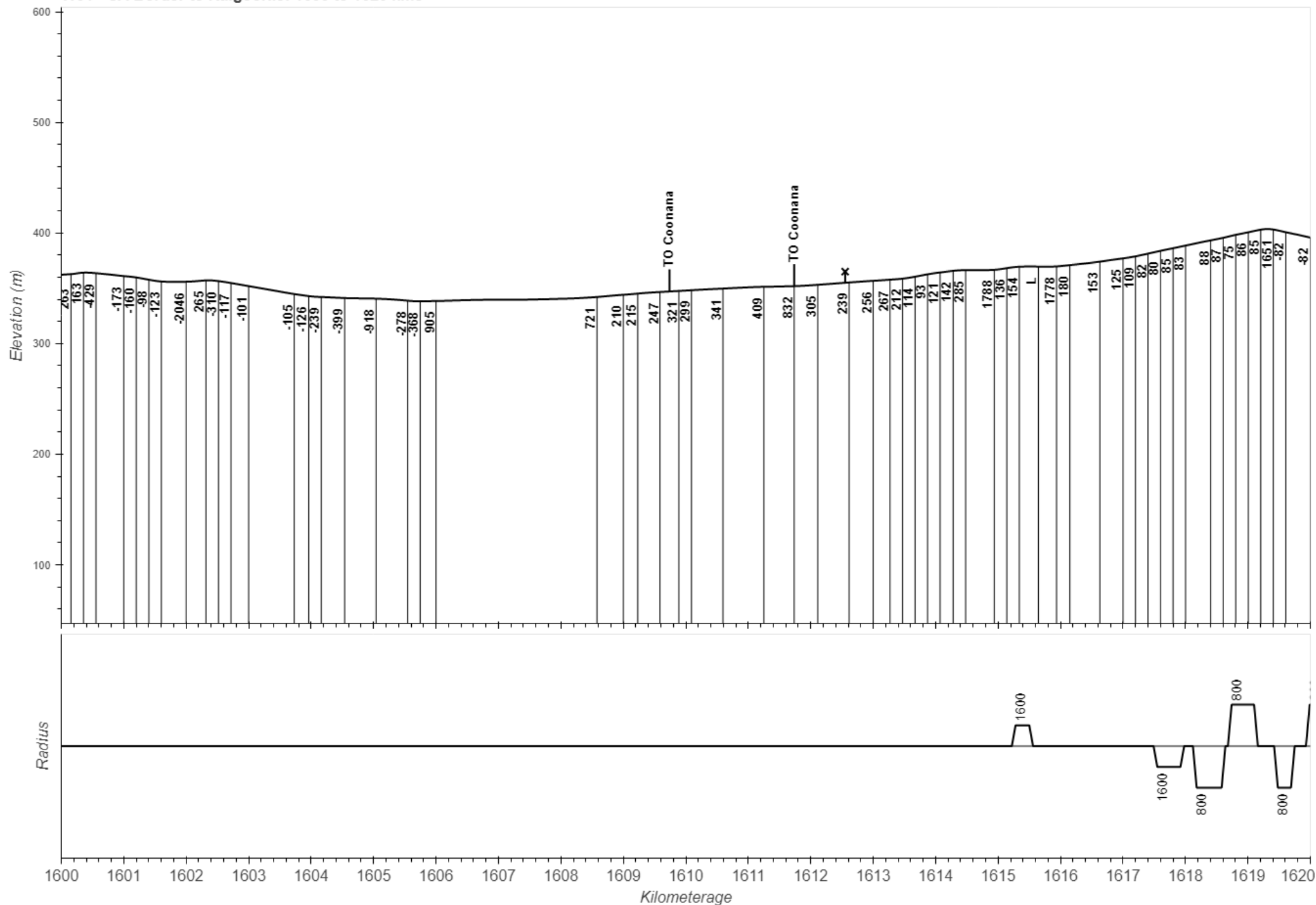


# W01 - SA Border to Kalgoorlie: 1580 to 1600 kms

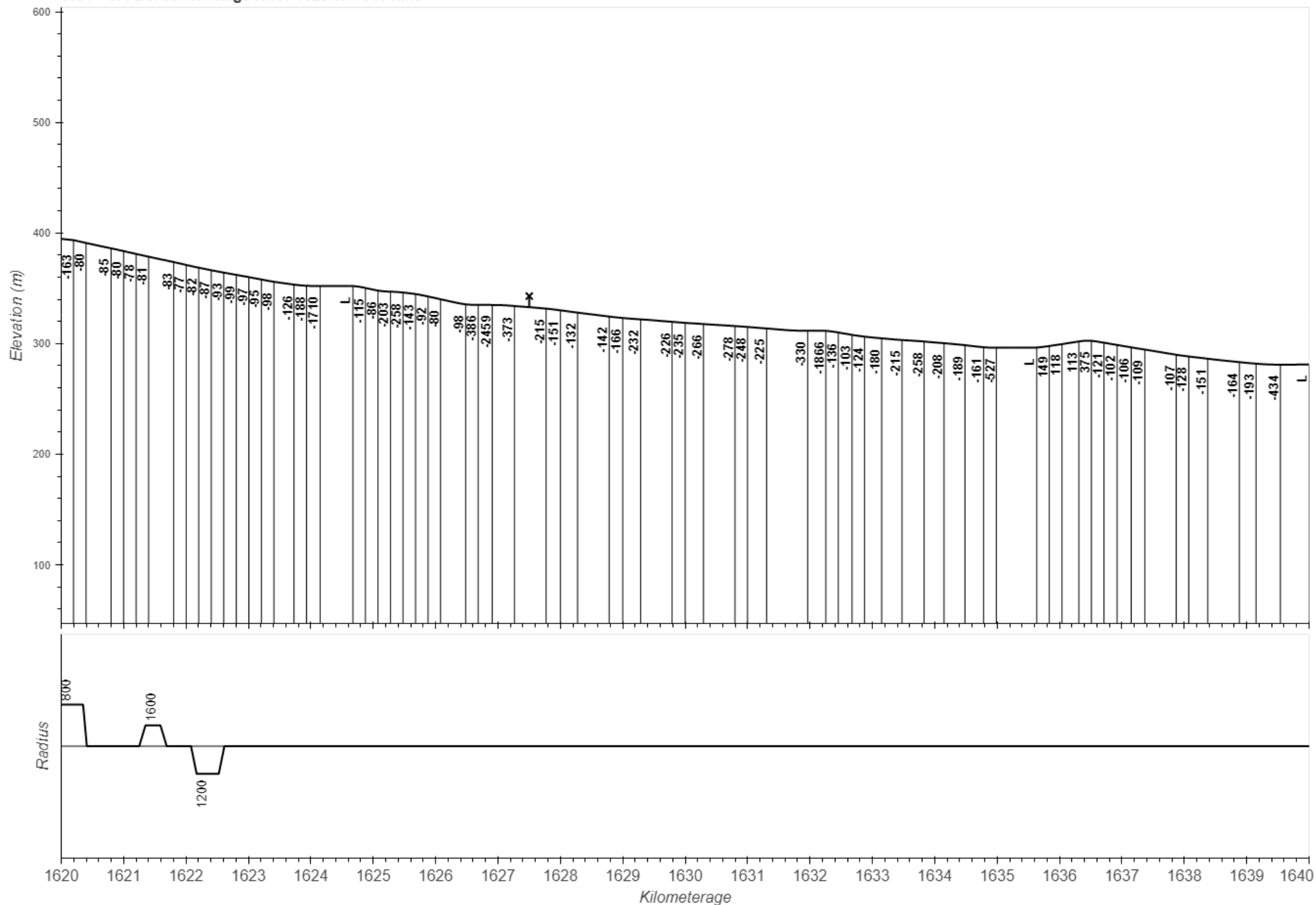




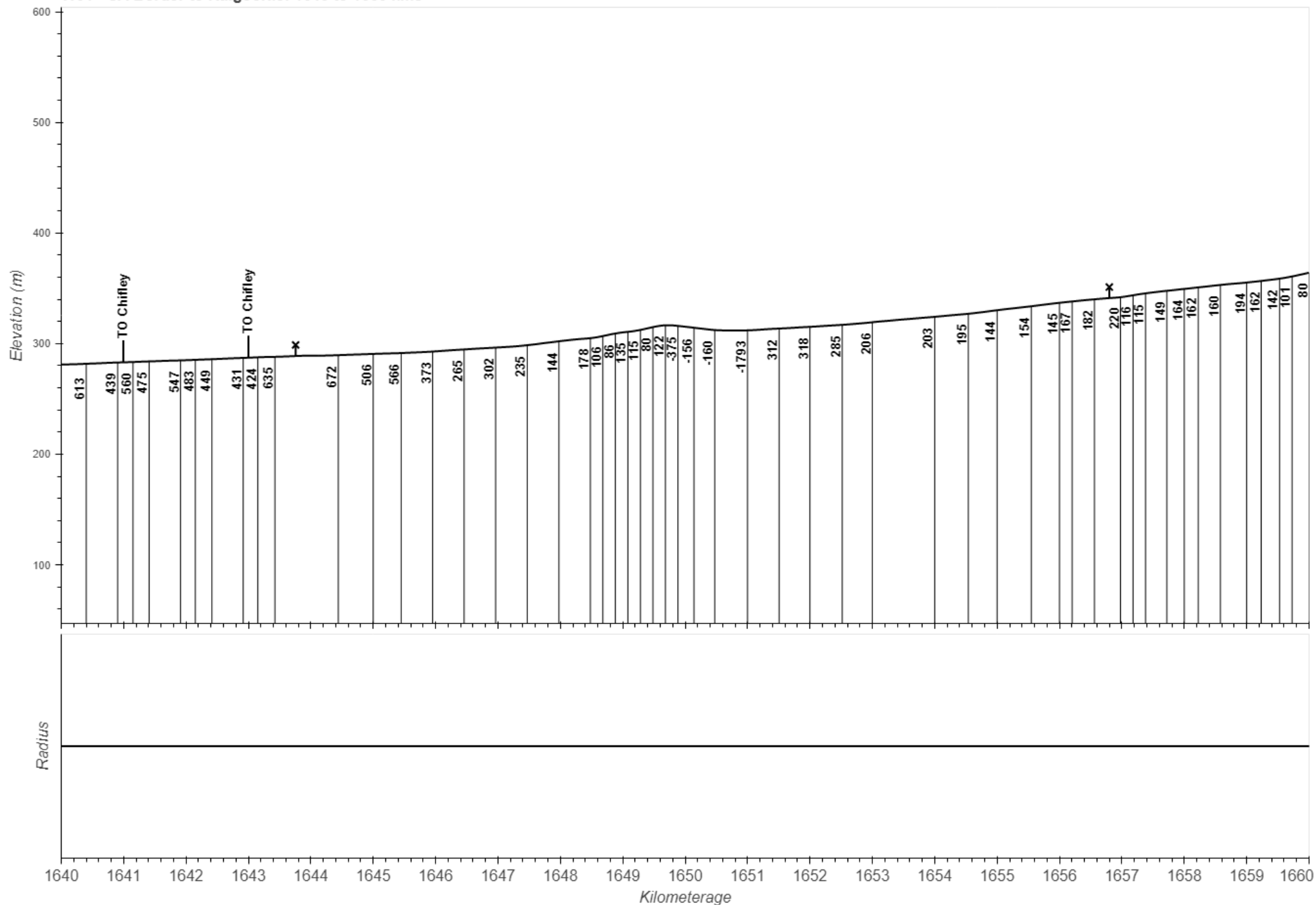
# W01 - SA Border to Kalgoorlie: 1600 to 1620 kms



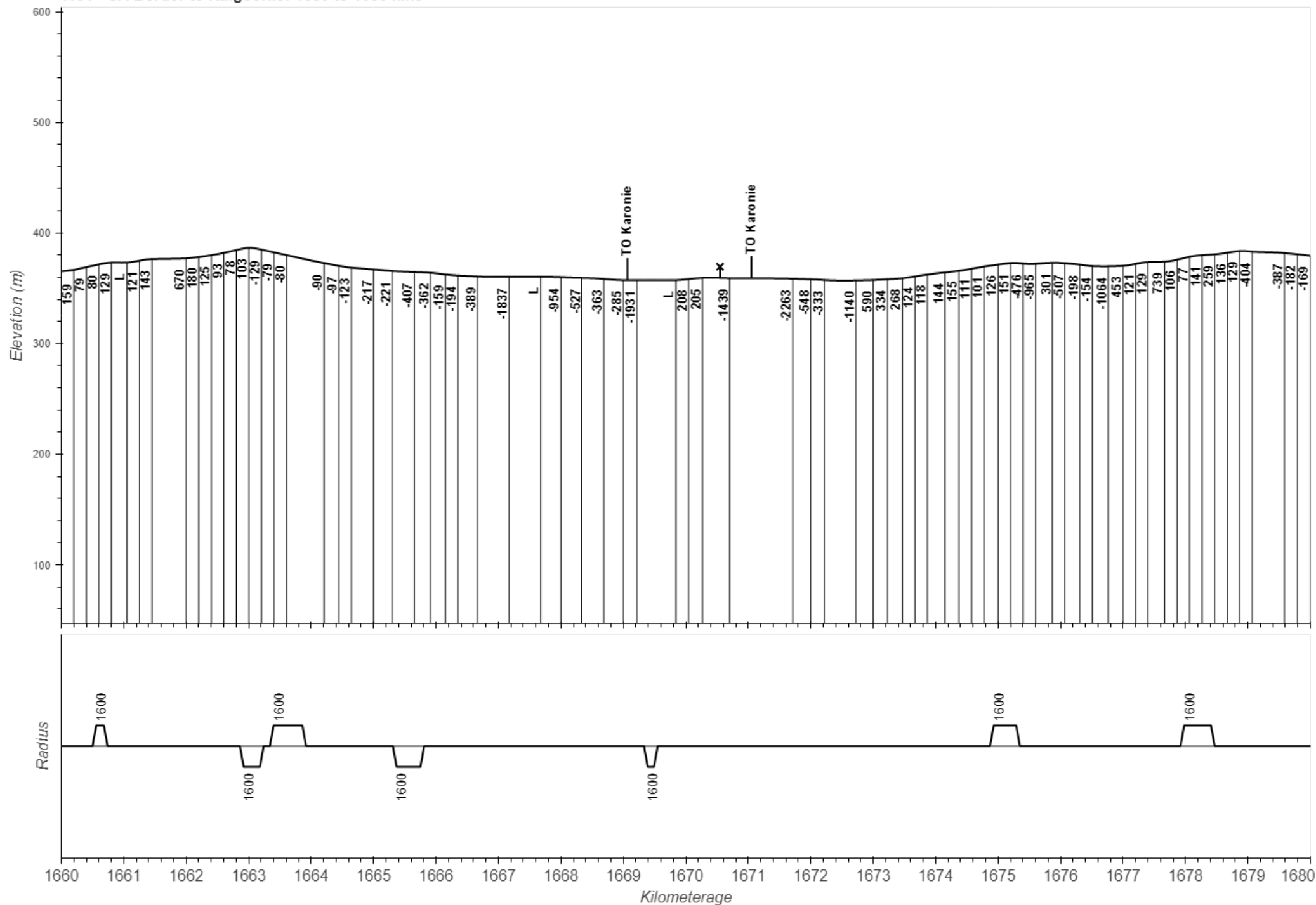
W01 - SA Border to Kalgoorlie: 1620 to 1640 kms



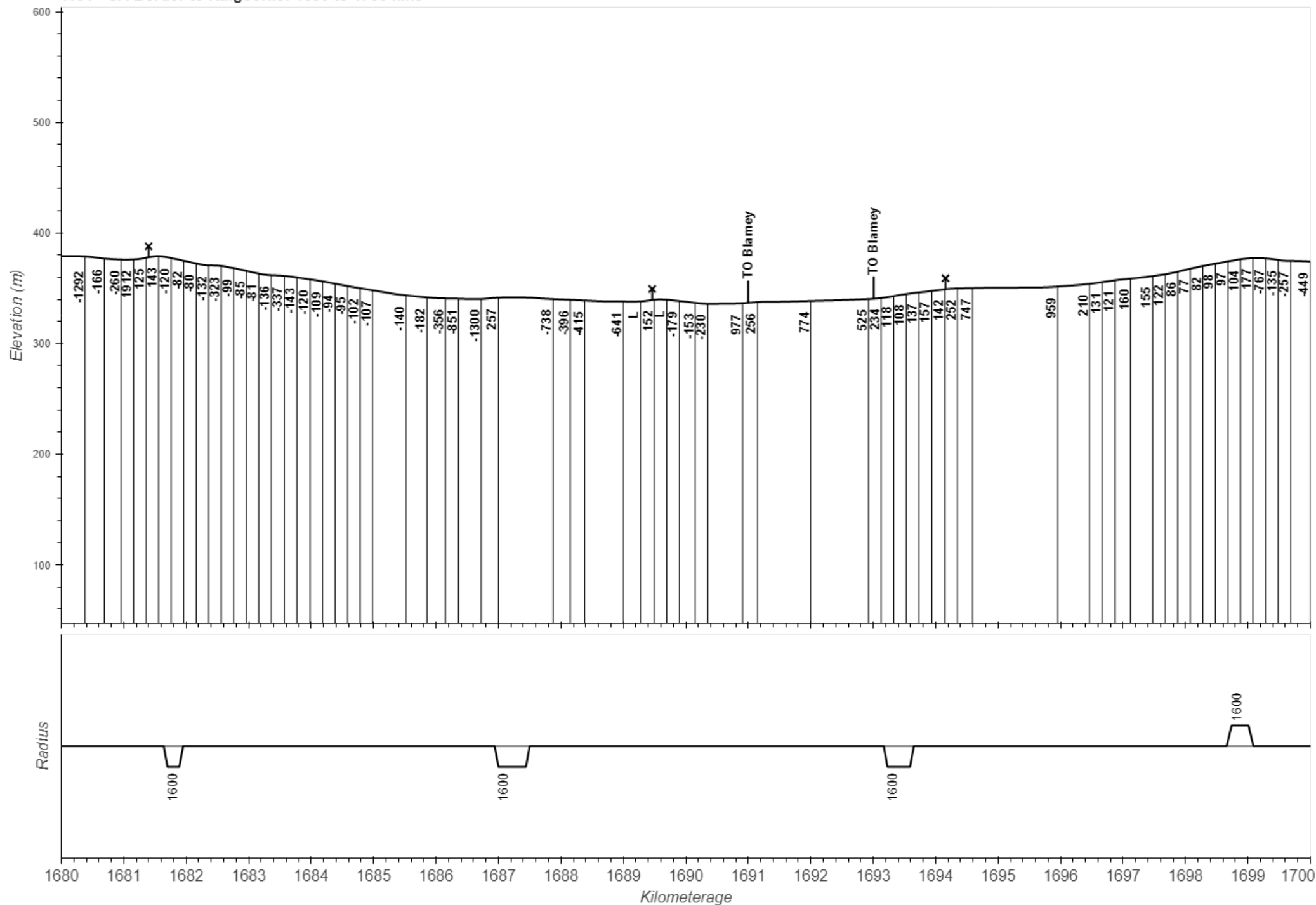
W01 - SA Border to Kalgoorlie: 1640 to 1660 kms



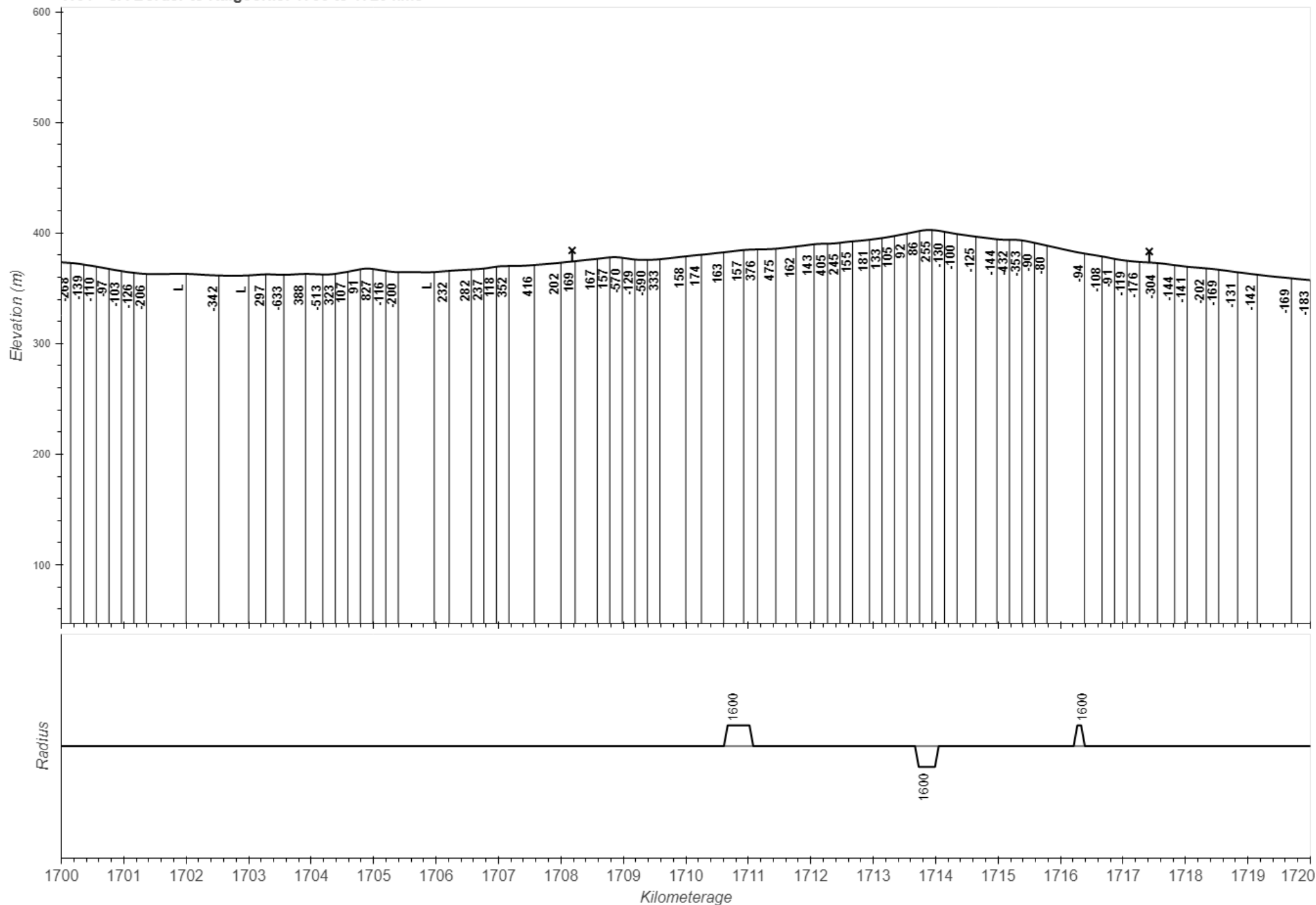
W01 - SA Border to Kalgoorlie: 1660 to 1680 kms



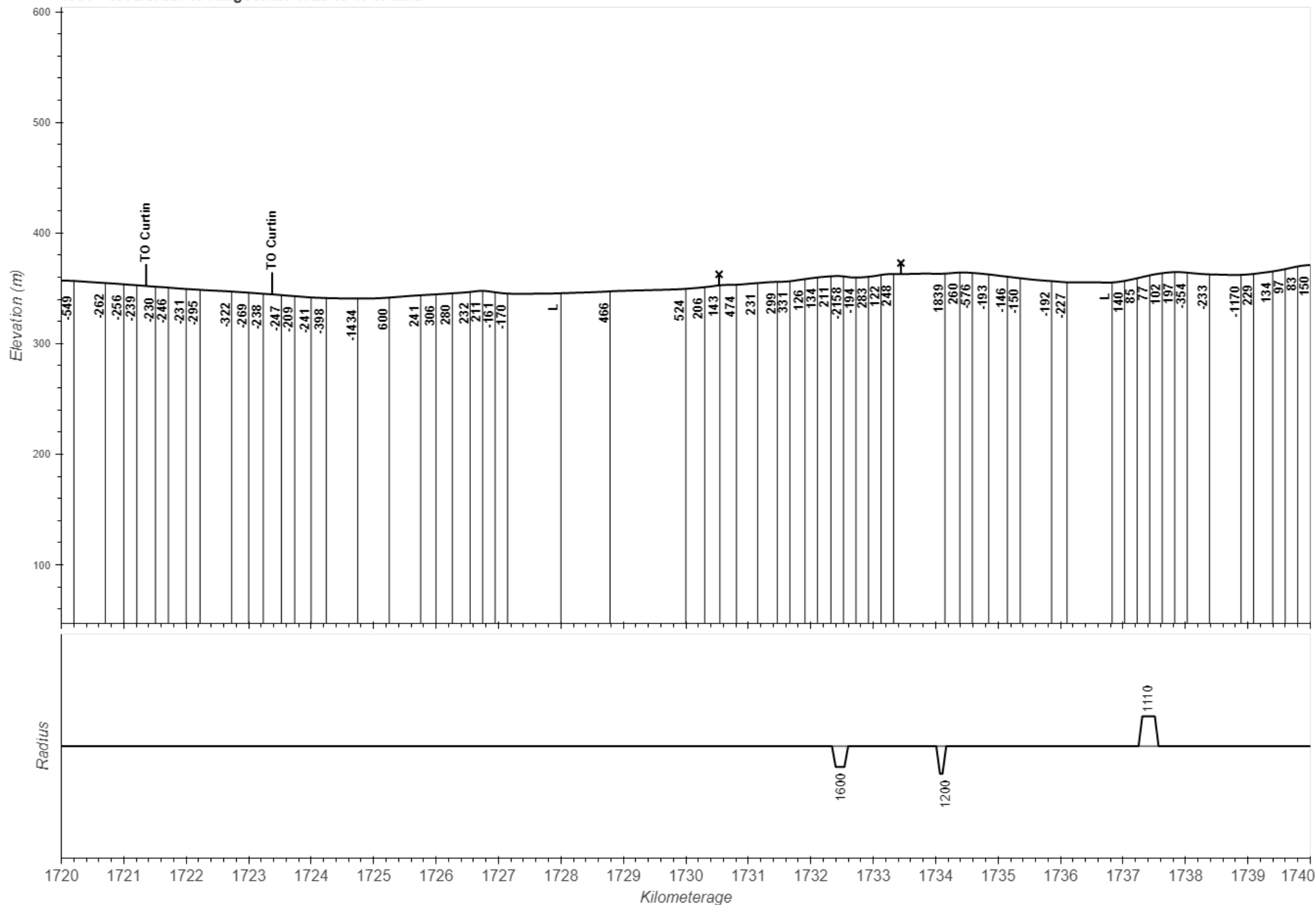
# W01 - SA Border to Kalgoorlie: 1680 to 1700 kms



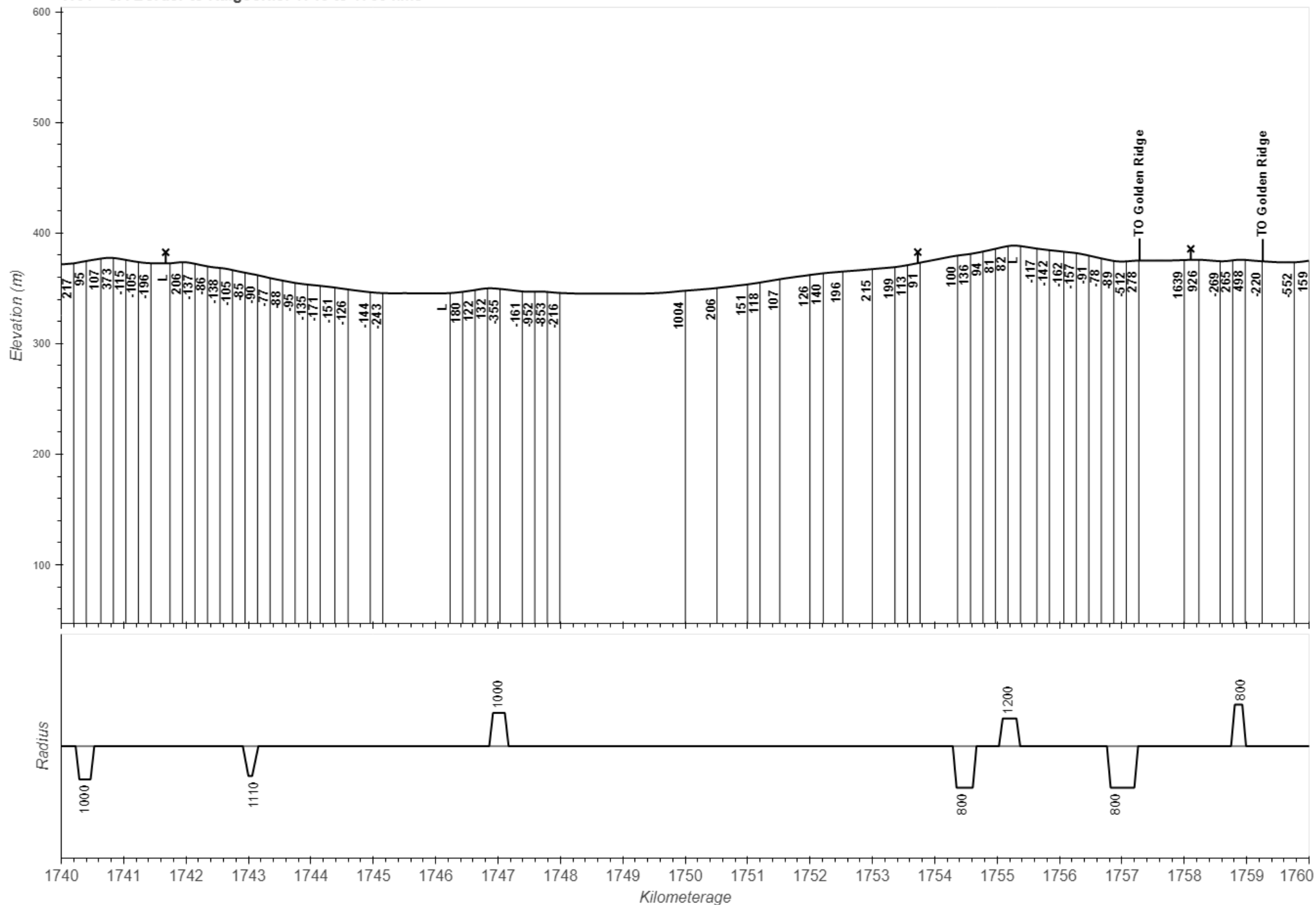
# W01 - SA Border to Kalgoorlie: 1700 to 1720 kms



# W01 - SA Border to Kalgoorlie: 1720 to 1740 kms

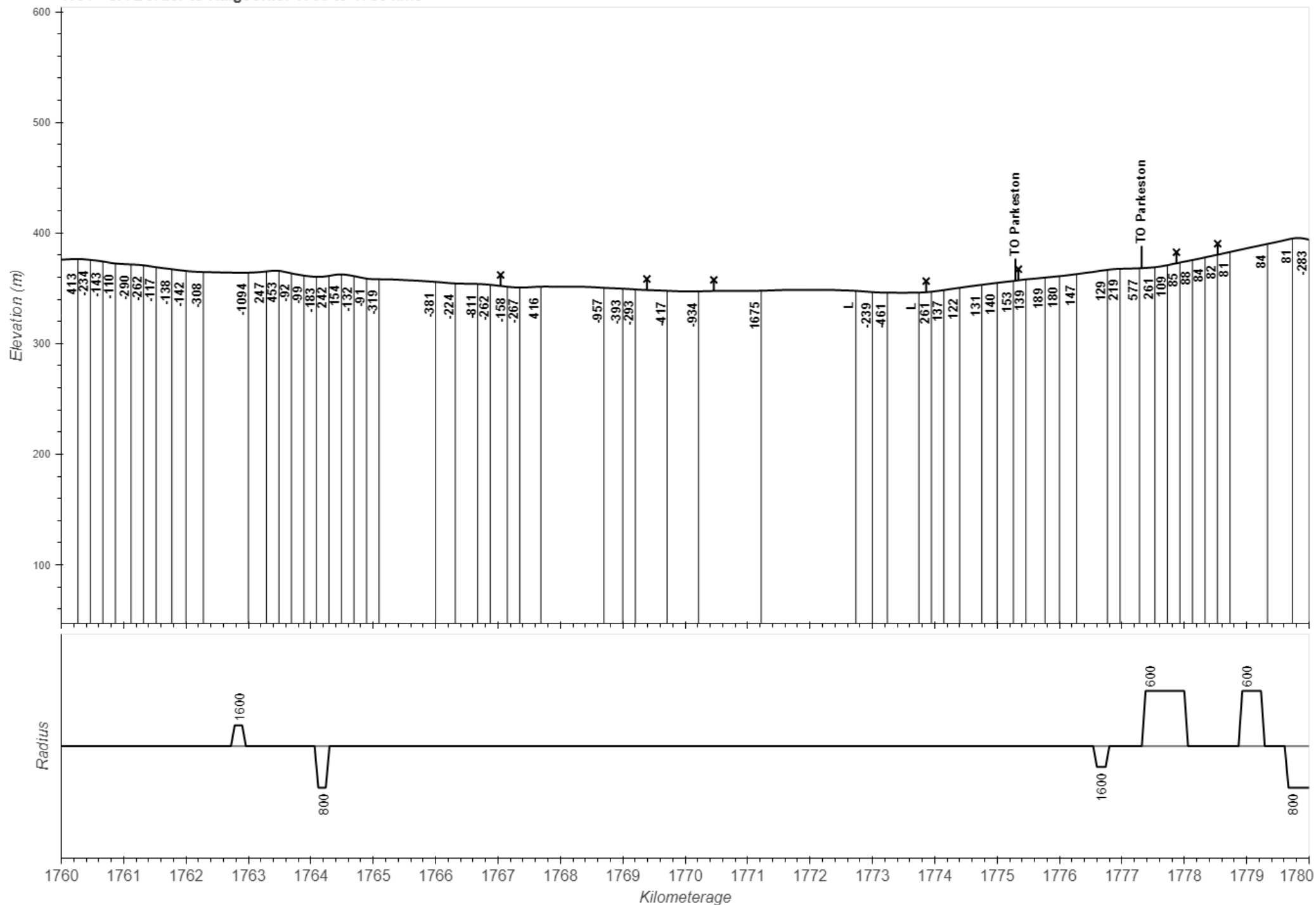


W01 - SA Border to Kalgoorlie: 1740 to 1760 kms





W01 - SA Border to Kalgoorlie: 1760 to 1780 kms



W01 - SA Border to Kalgoorlie: 1780 to 1800 kms

