

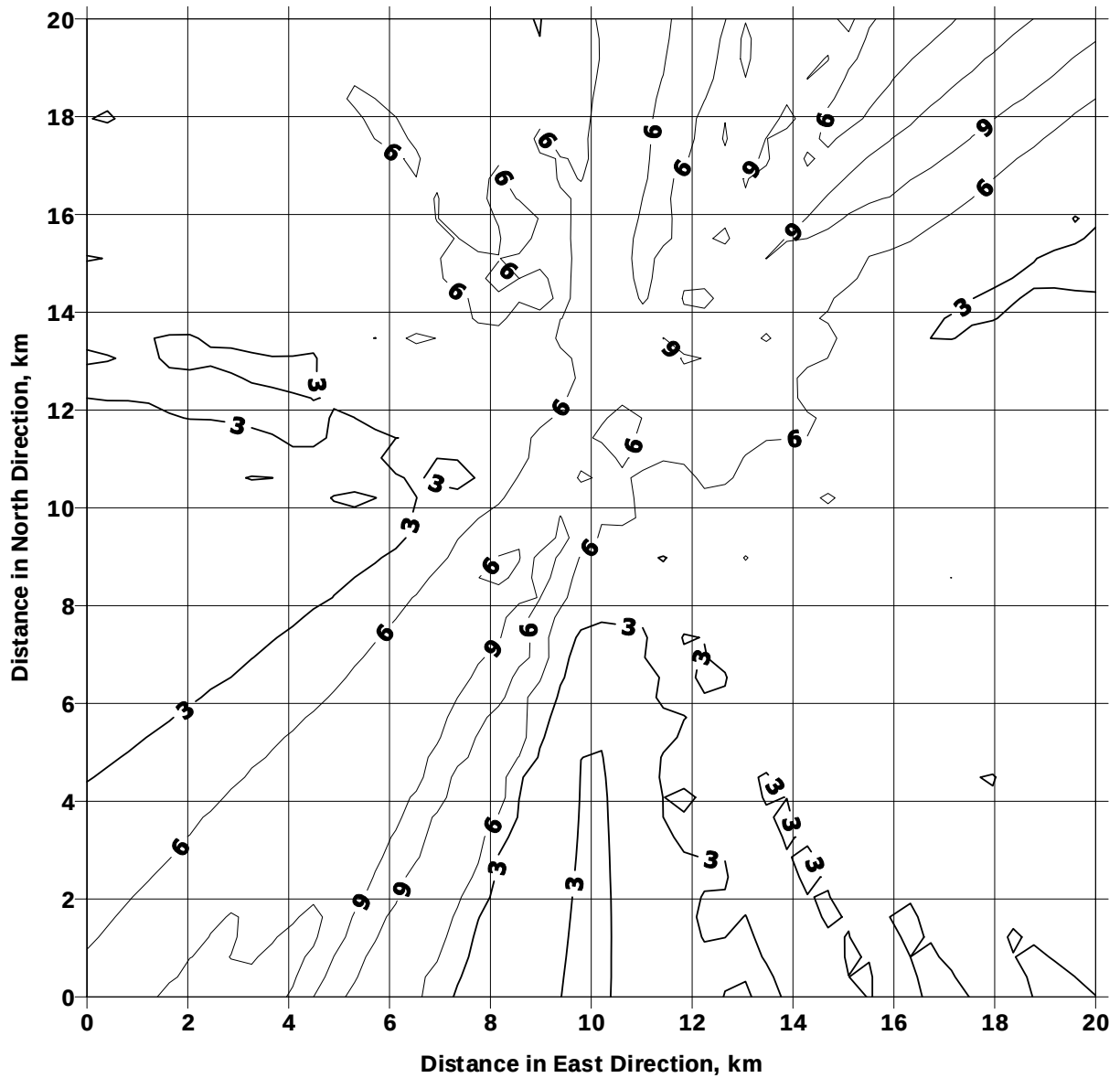


Fig 4.1 : Predicted GLCs of NO_x due to Production in Mangala Field

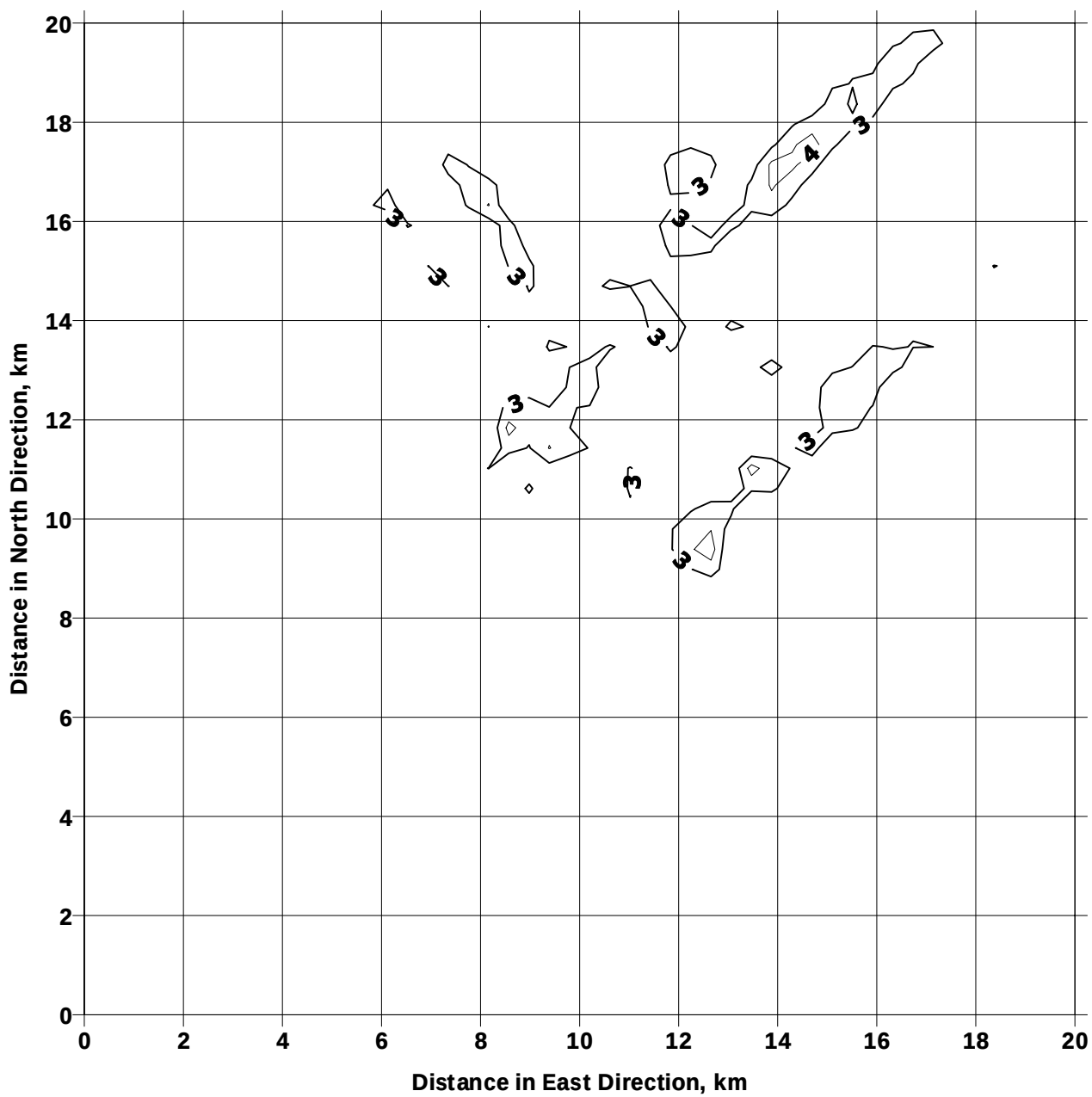


Fig 4.2 : Predicted GLCs of NO_x due to NA Field Operations

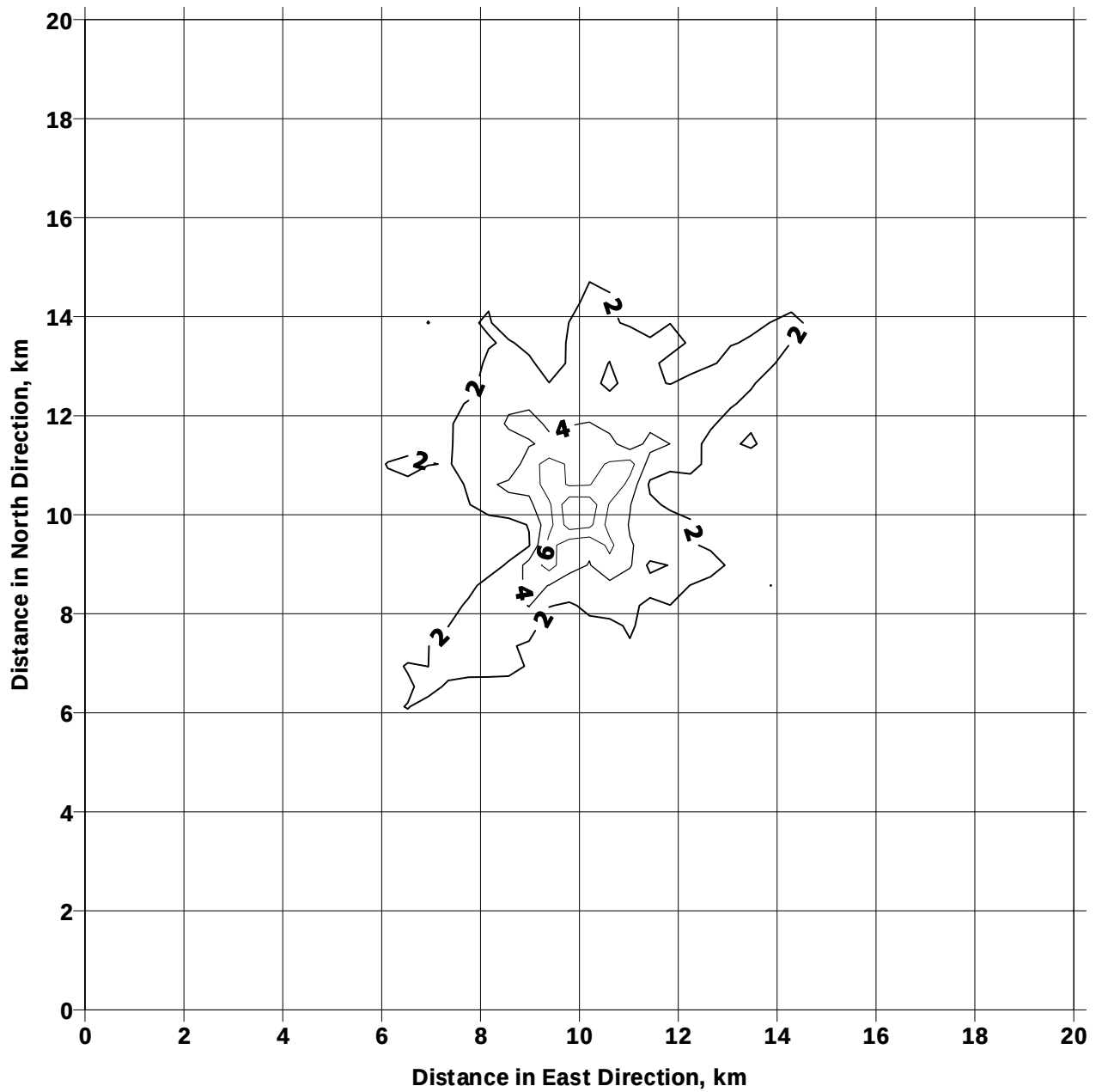


Fig 4.3 : Predicted GLCs of SO₂ due to Production and Drilling in Managala Field

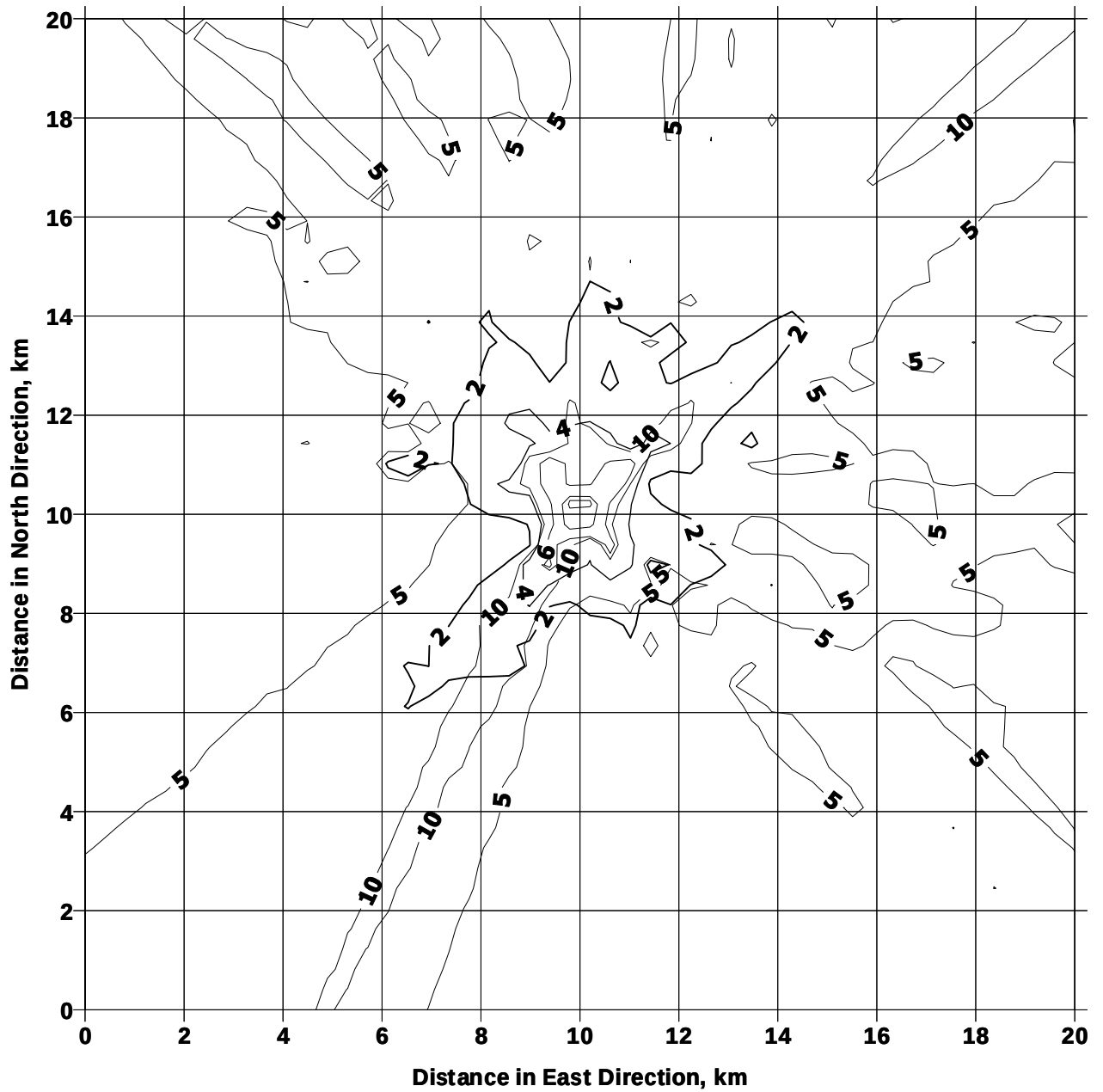


Fig 4.4 : Predicted GLCs of NO_x due to Drilling and Production in Mangala Field

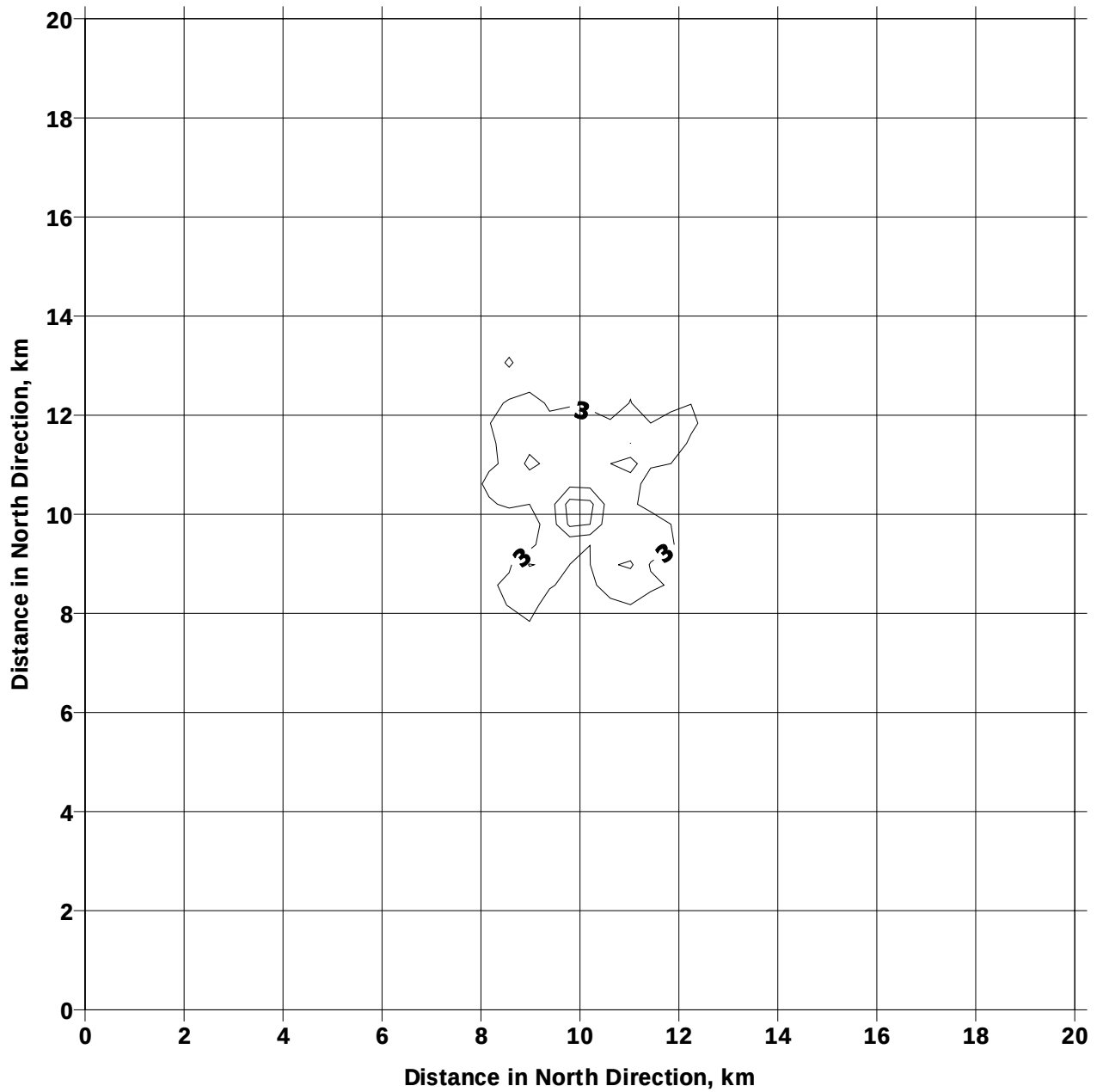


Fig 4.5 : Predicted GLCs of SO₂ due to Production and Drilling in NA Field

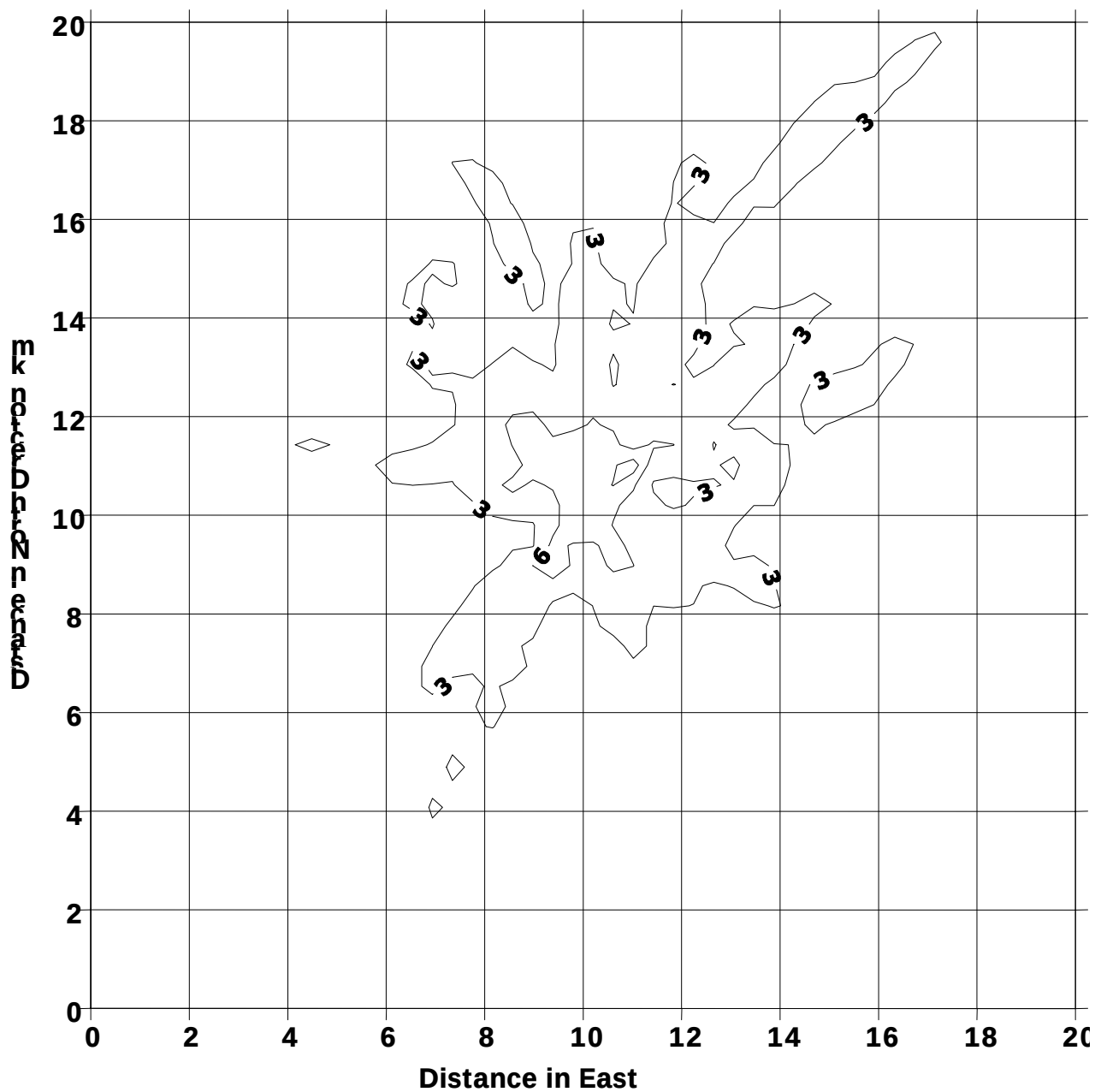


Fig 4.6 : Predicted GLCs of NO_x due to Drilling and Production in NA Field

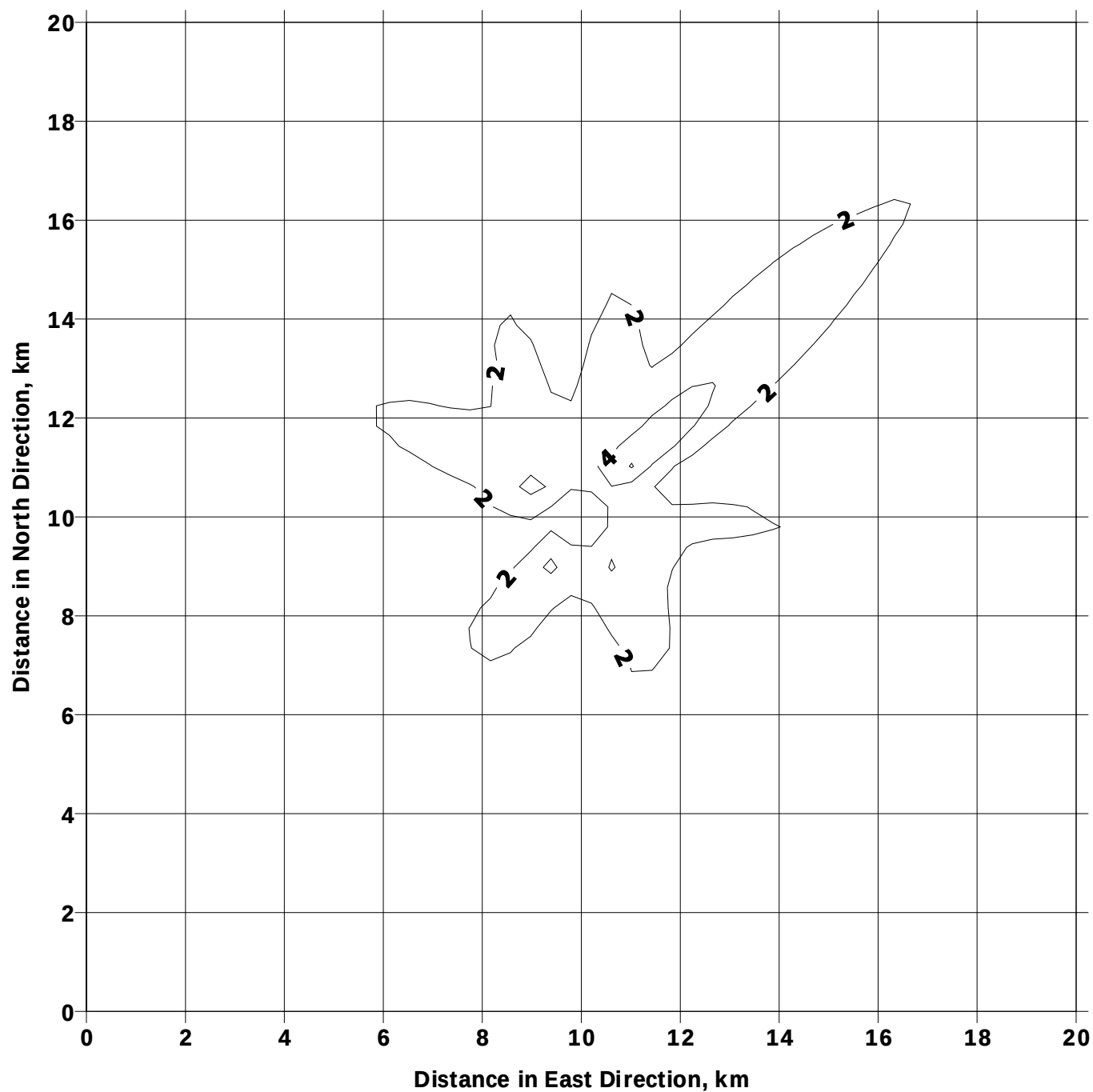


Fig 4.7 : Predicted GLCs of SO₂ due to Captive Power Plant (Oil Based)

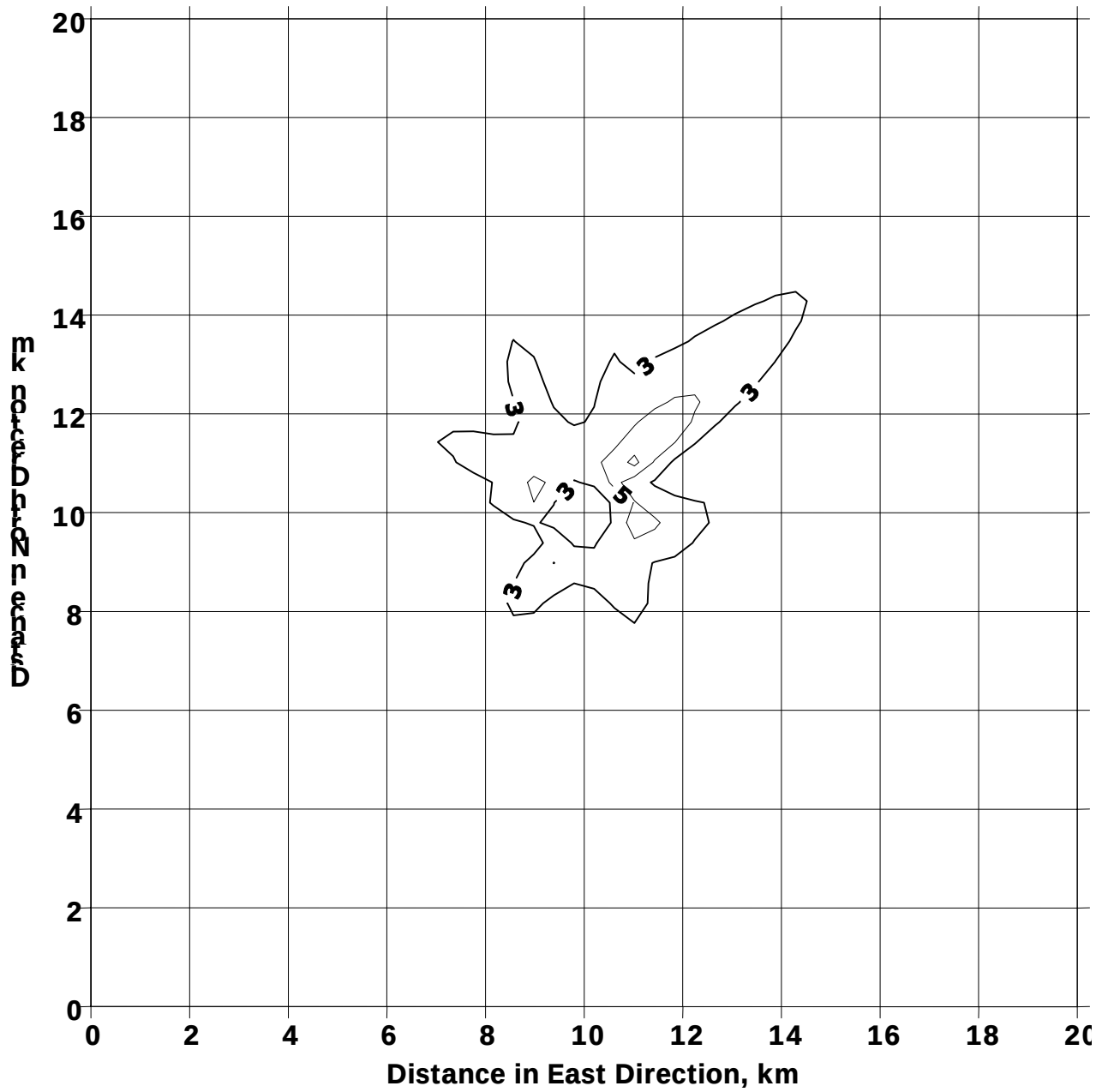


Fig 4.8 : Predicted GLCs of NOx due to Power Plant (Oil Based)

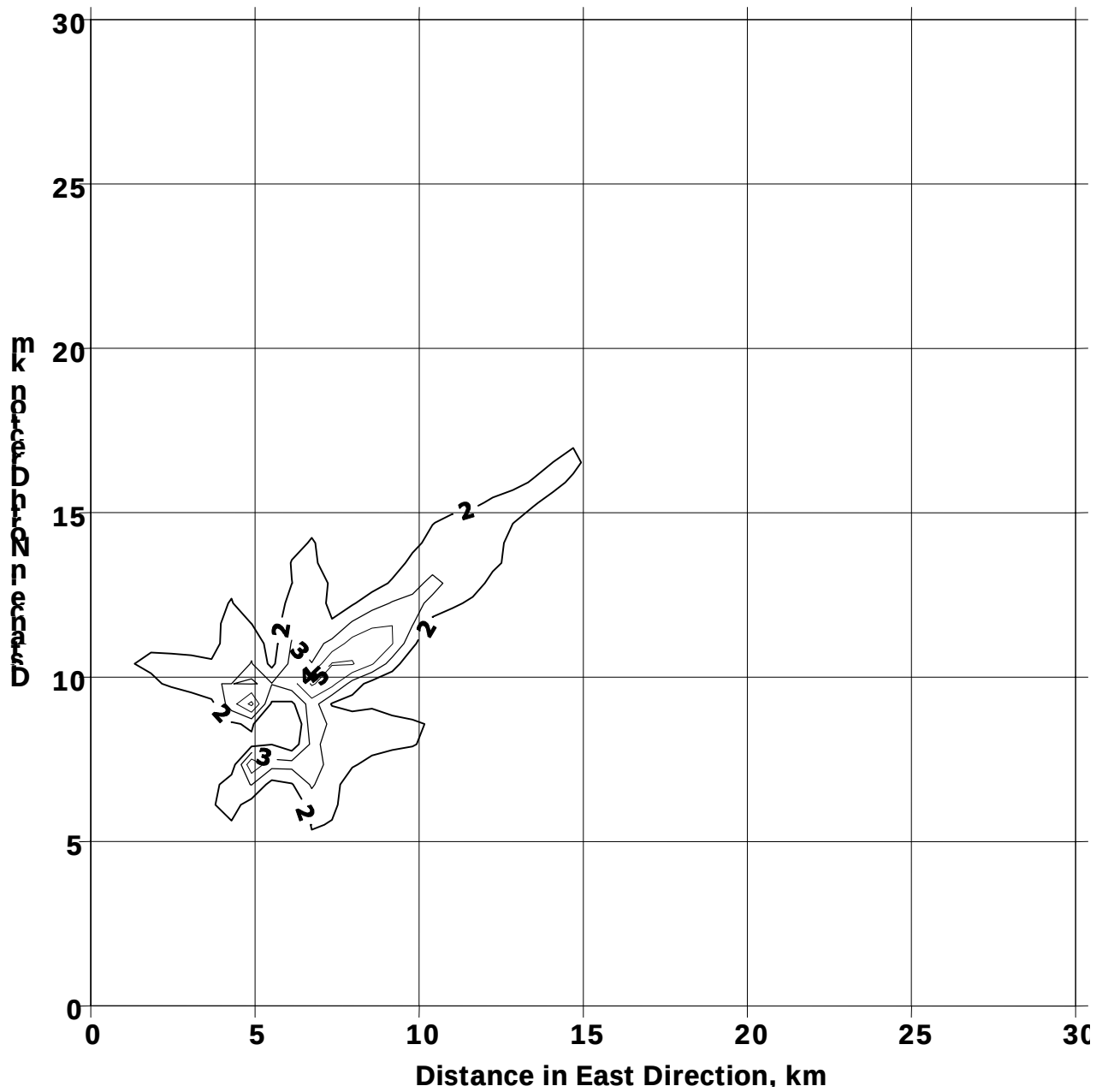
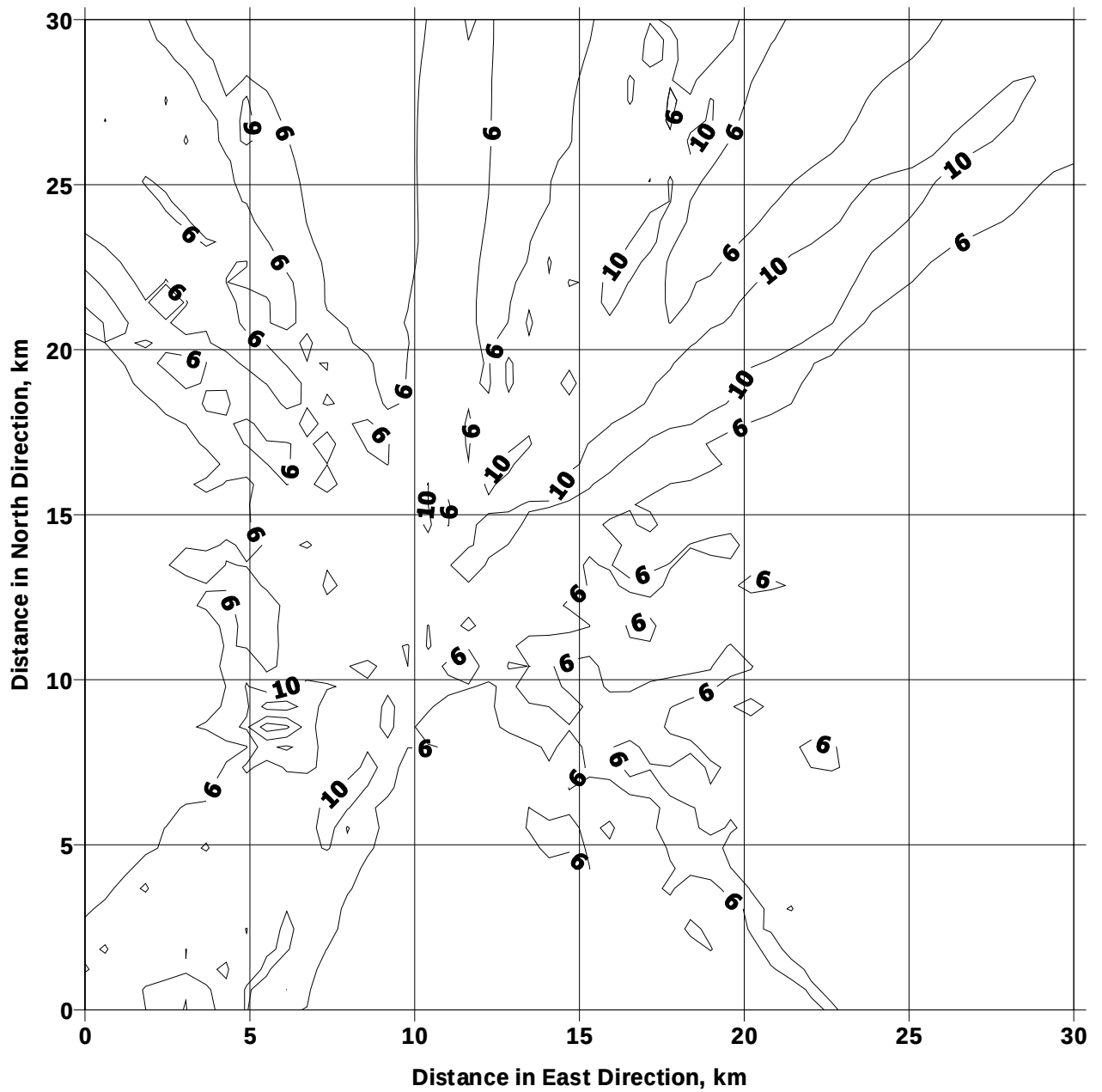


Fig 4.9 : Predicted GLCs of SO₂ due to Mangala Field, NA Field and CPP (Oil Based)



**Fig 4.10 : Predicted GLCs of NO_x due to Mangala Field, NA Field and CPP
 (Oil Based)**

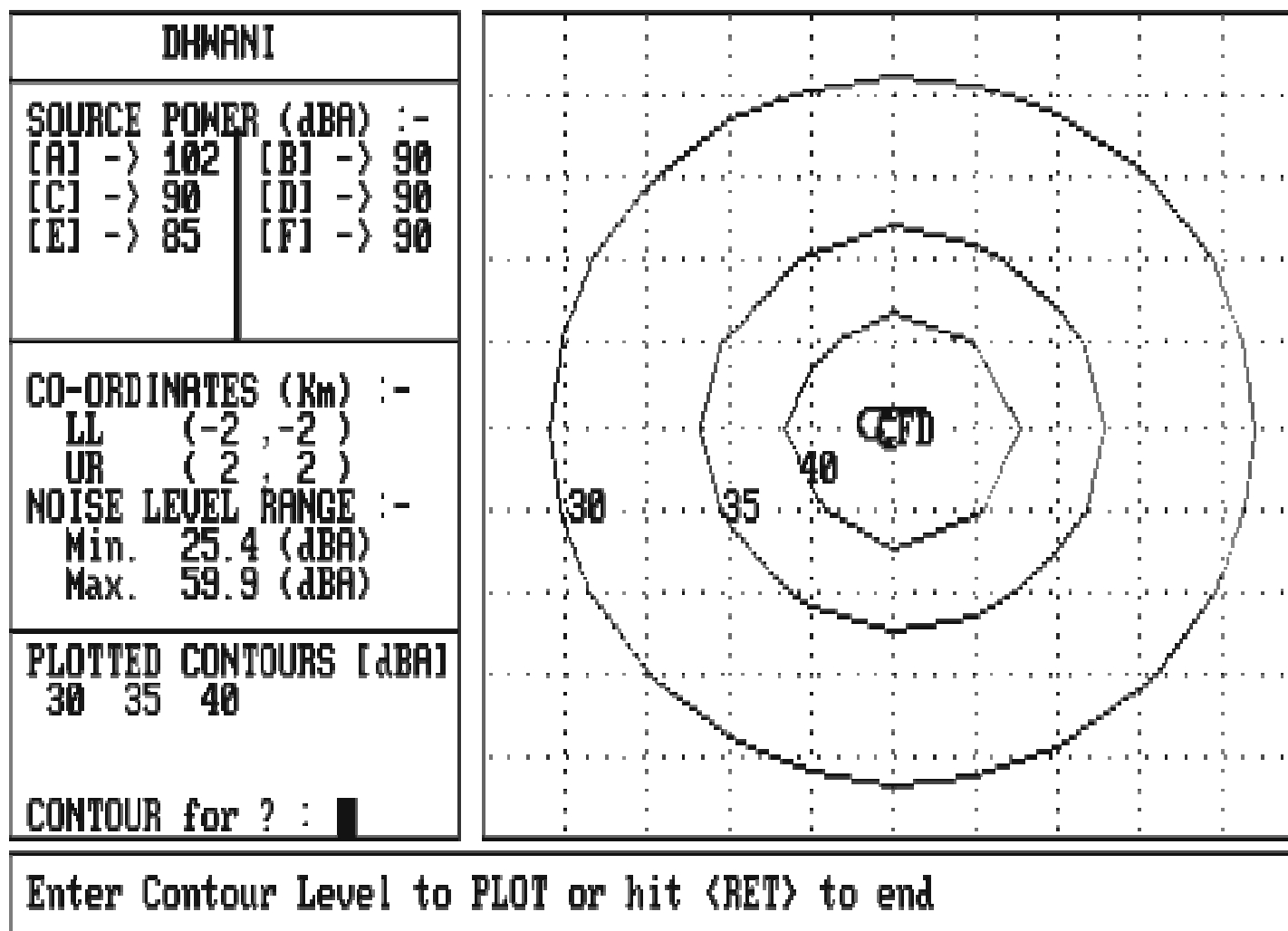


Fig 4.11 : Predicted Noise Levels due to Sources at Drilling Sites

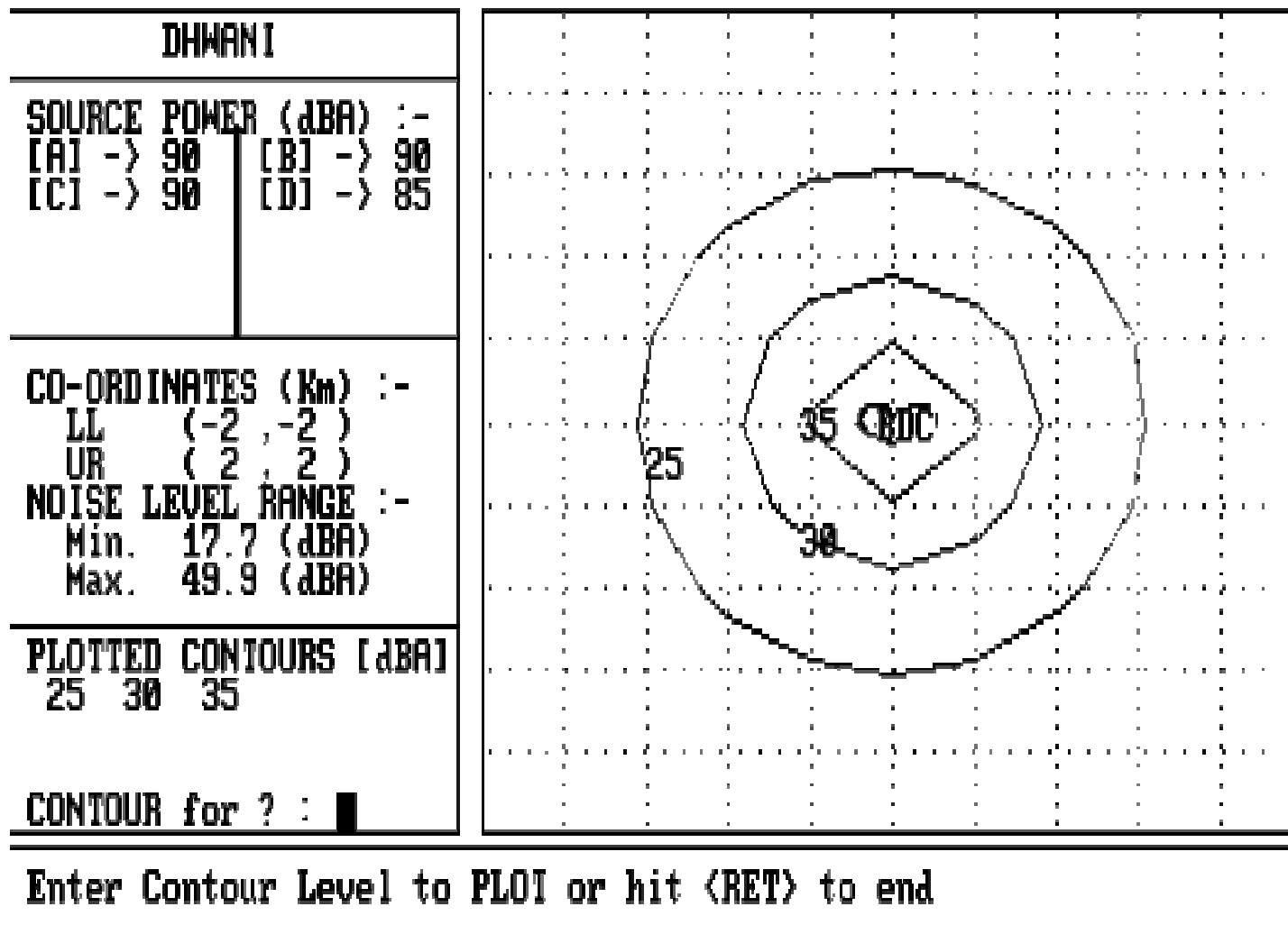


Fig 4.12 : Predicted Noise Levels due to Sources at Group Gathering Station

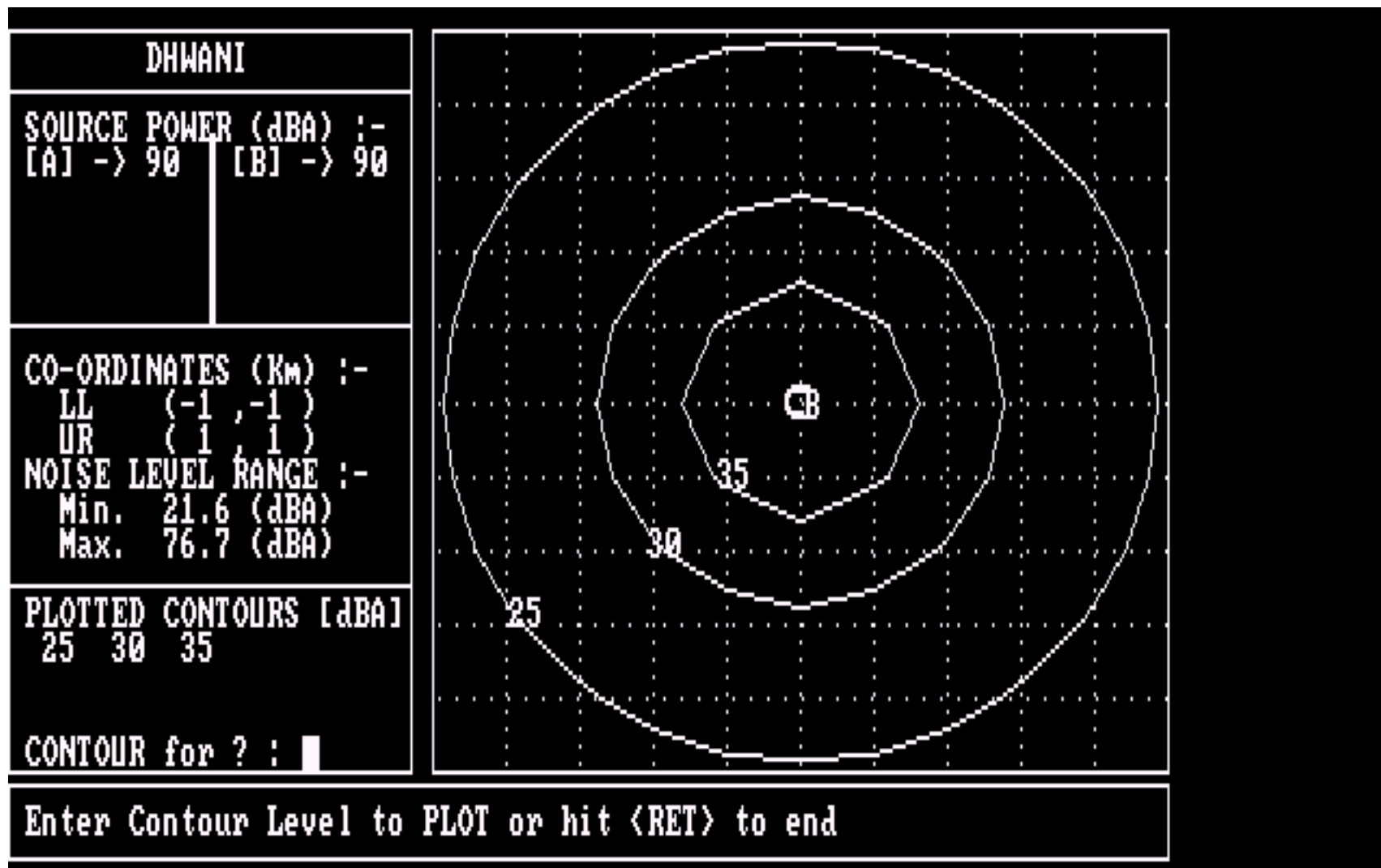


Fig 4.13 : Predicted Noise Levels due to Sources at Gas Processing Facility

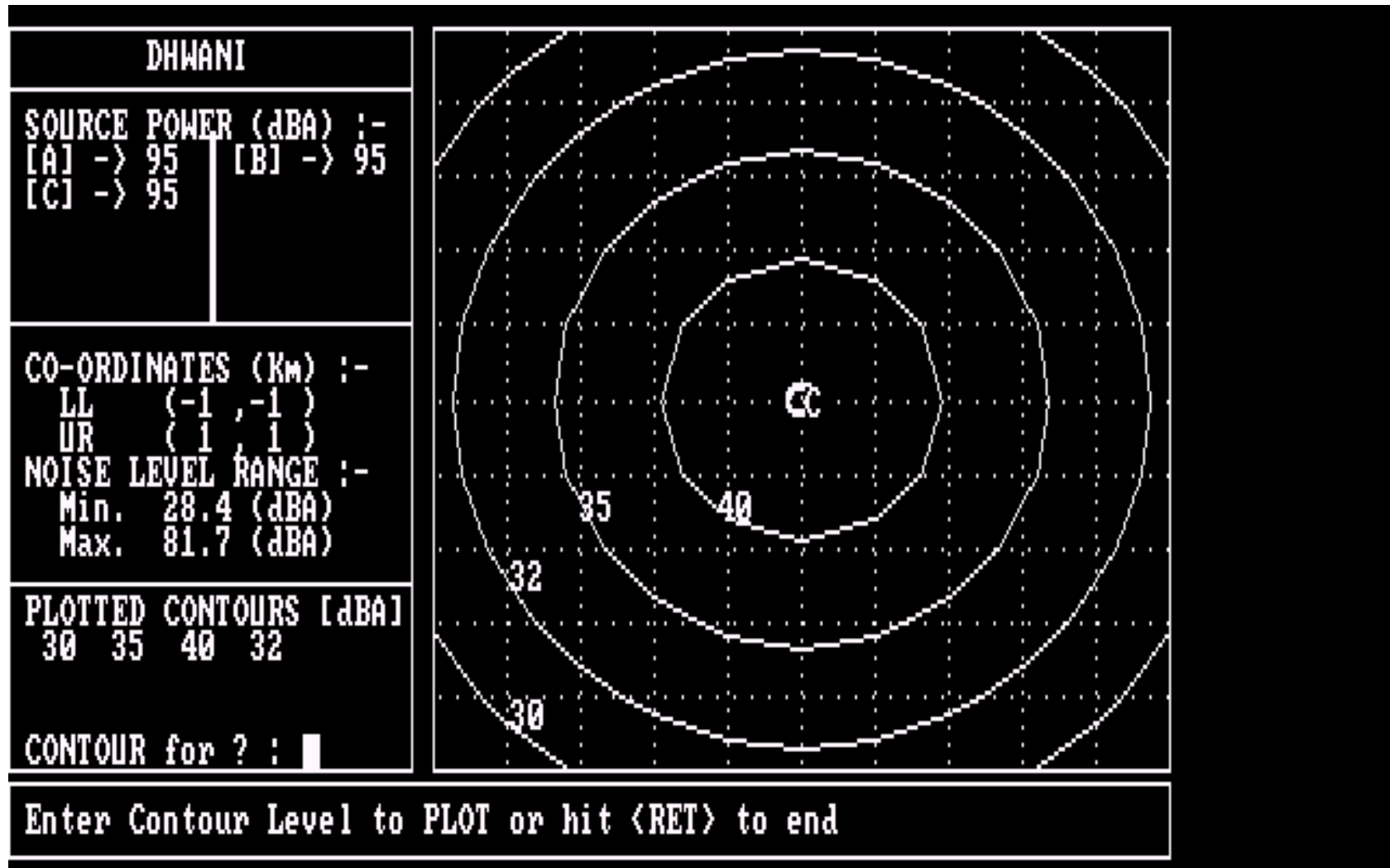


Fig 4.14 : Predicted Noise Levels due to Sources at CPF/CTF

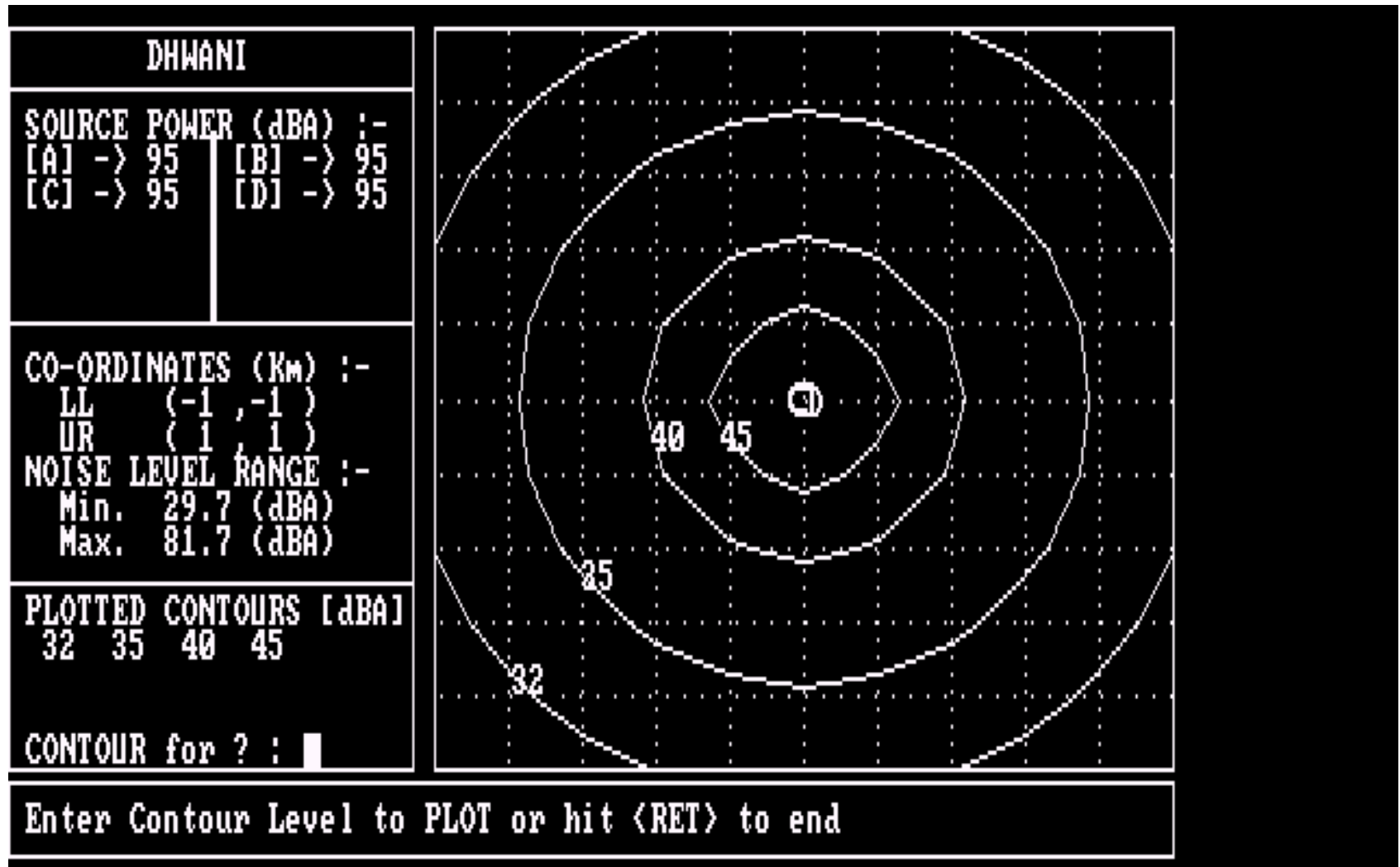


Fig 4.15 : Predicted Noise Levels due to Sources at CPP

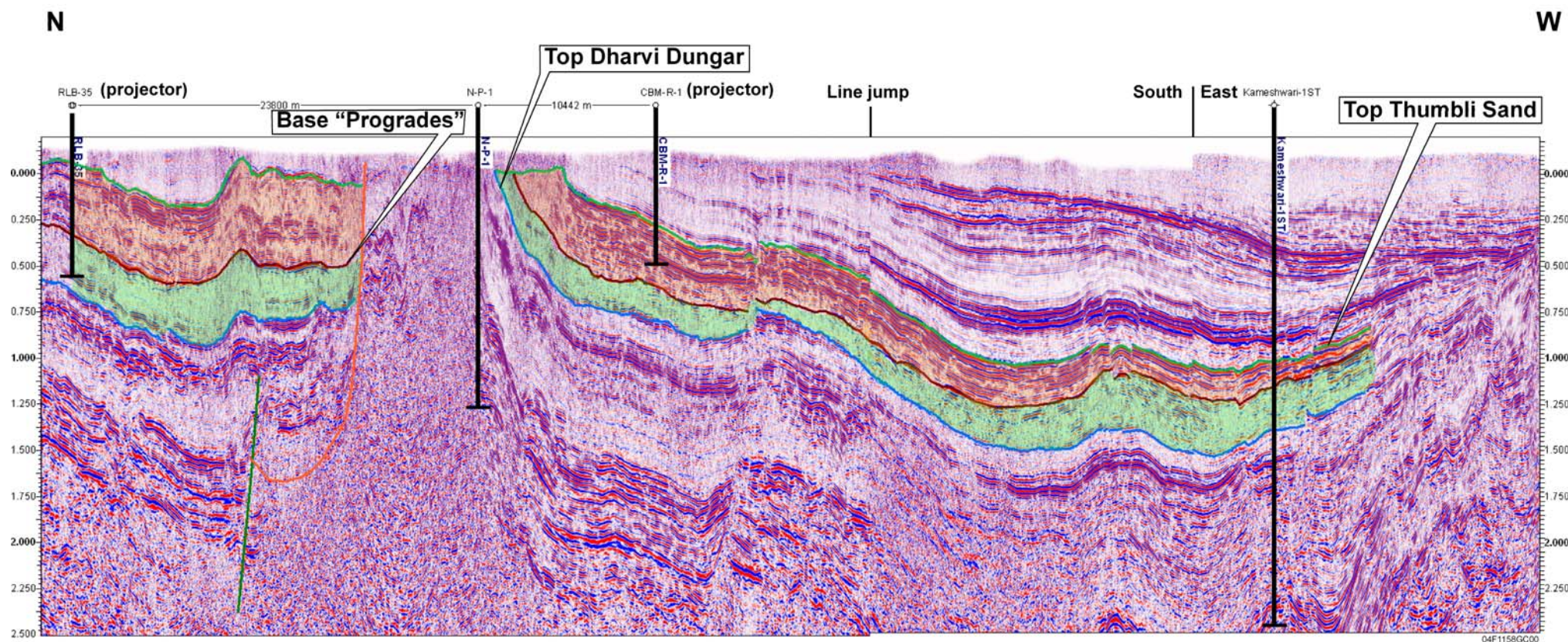


Fig. 4.16: Seismic section (approximately N-S) through the Barmer Basin showing the Thumbli Sand (red-orange) as it deepens and thins towards the south

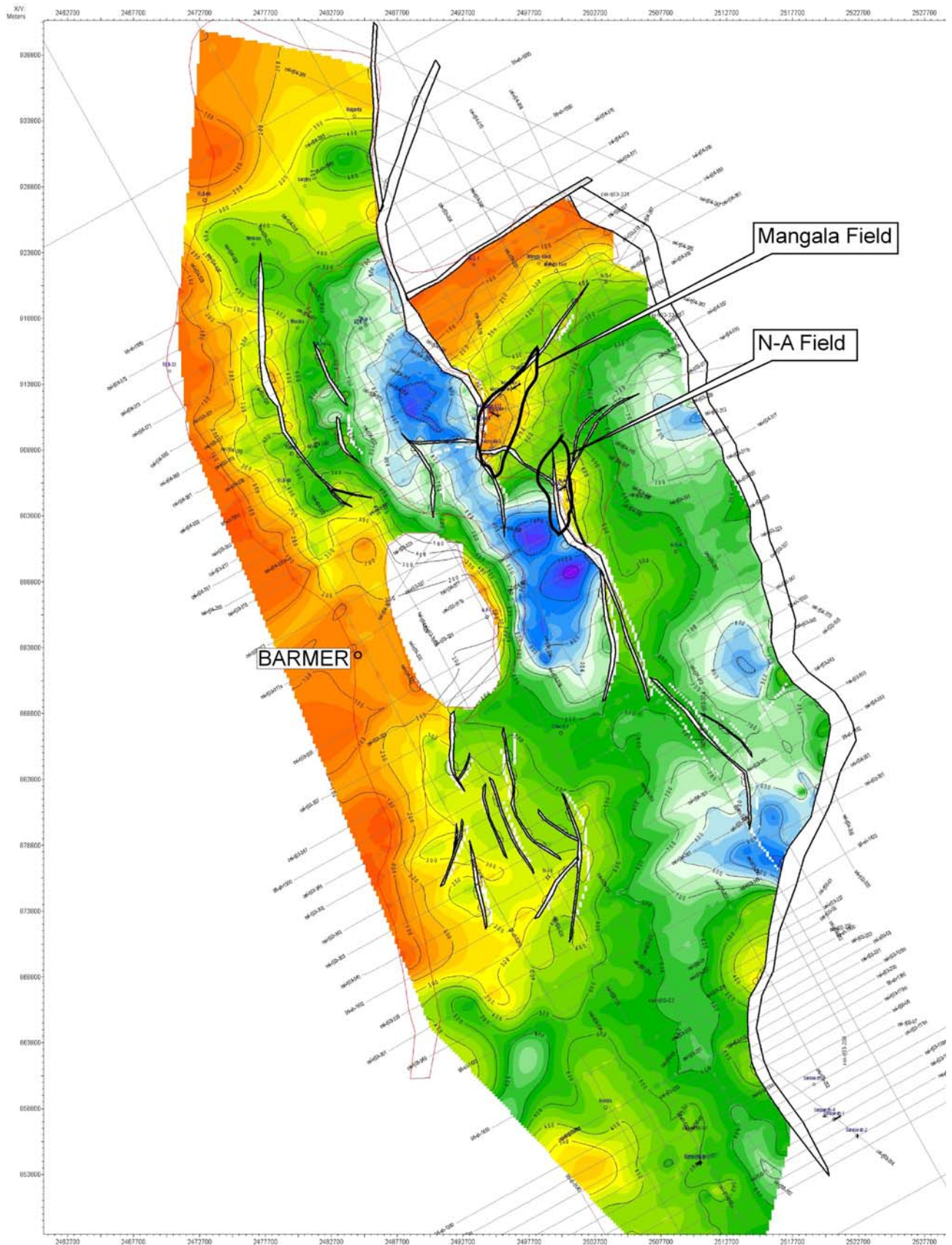


Fig. 4.17: Thickness map of Thumbli Sand showing areas of maximum thickness (>700m) in blue

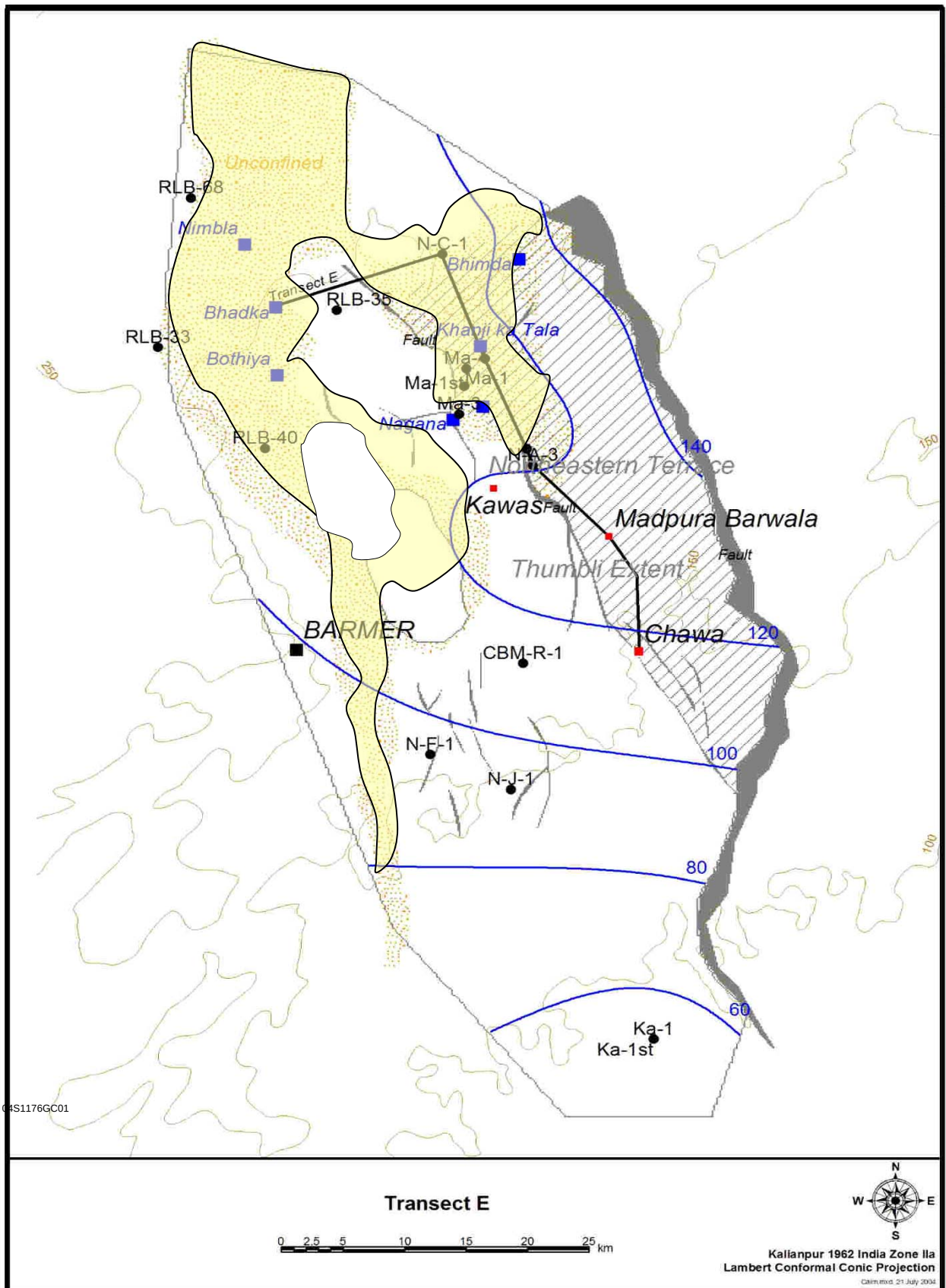


Fig. 4.18 : The Thumbli aquifer and the PHED well fields

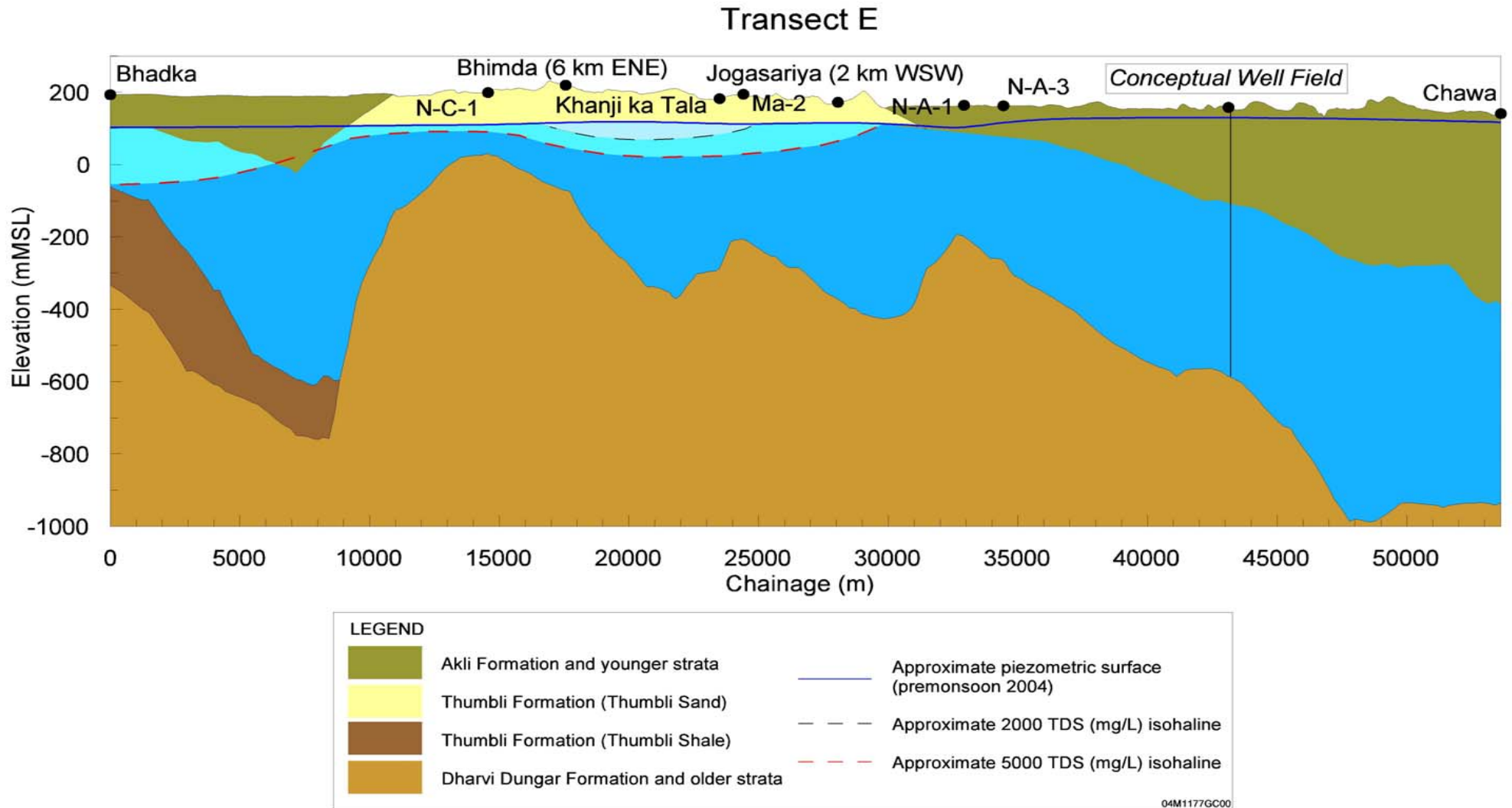


Fig. 4.19 : Cross-section through the Thumbli aquifer close to PHED wells, along the line on Figure 3, showing fresh (light blue), brackish (mid blue) and saline water (darkest blue) water resources

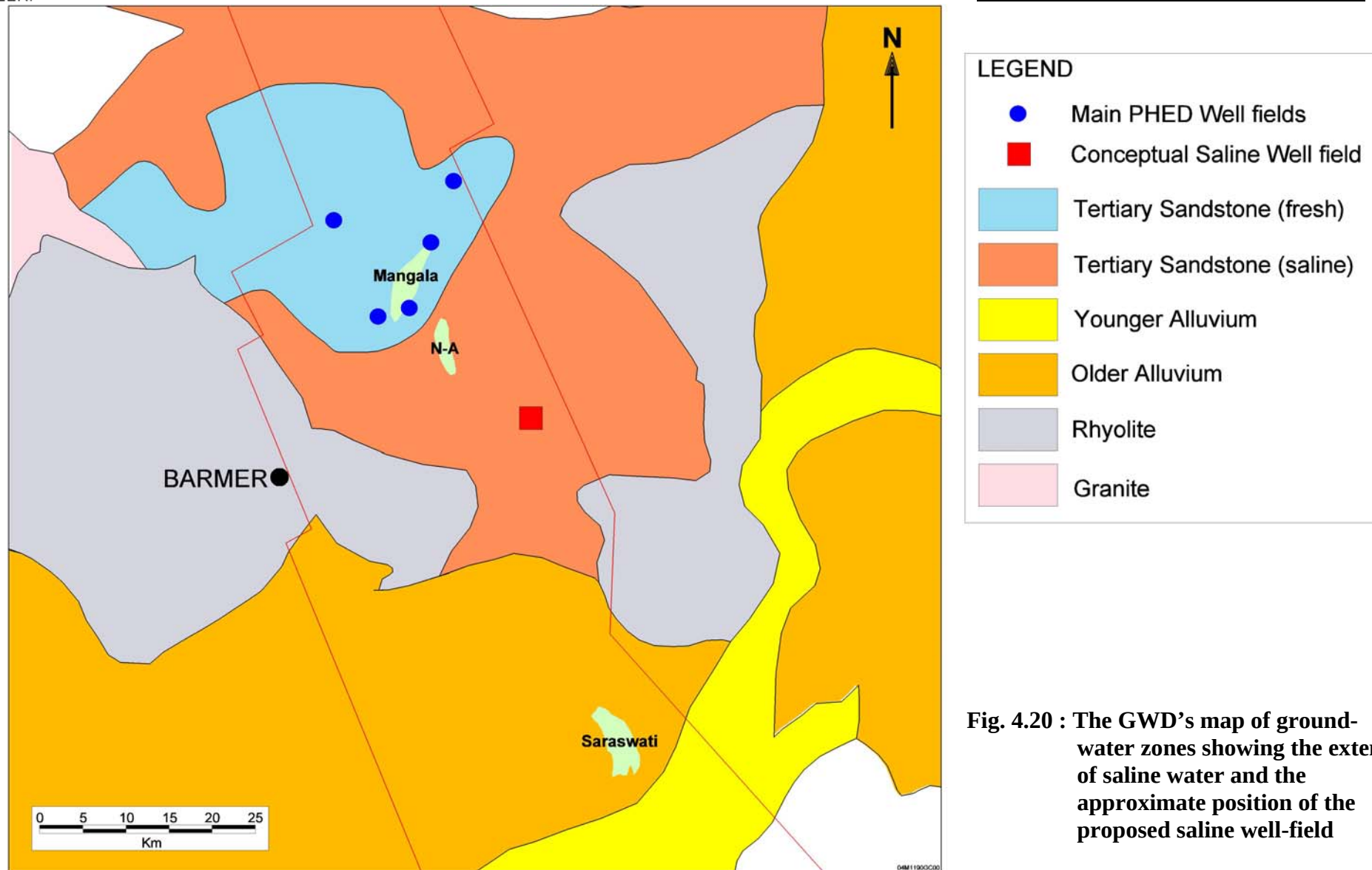


Fig. 4.20 : The GWD's map of ground-water zones showing the extent of saline water and the approximate position of the proposed saline well-field

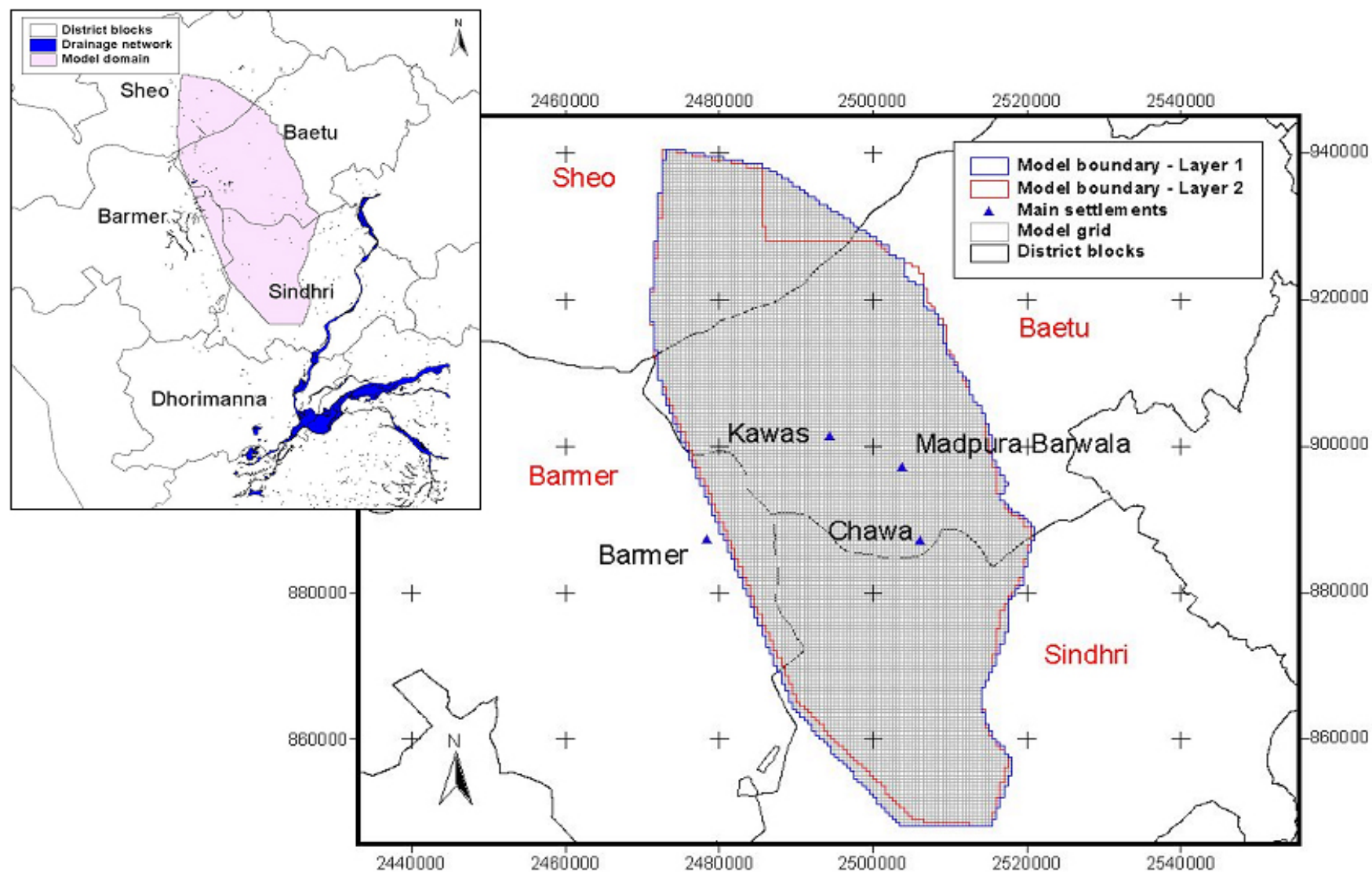


Fig. 4.21 : Location and extent of the model domain

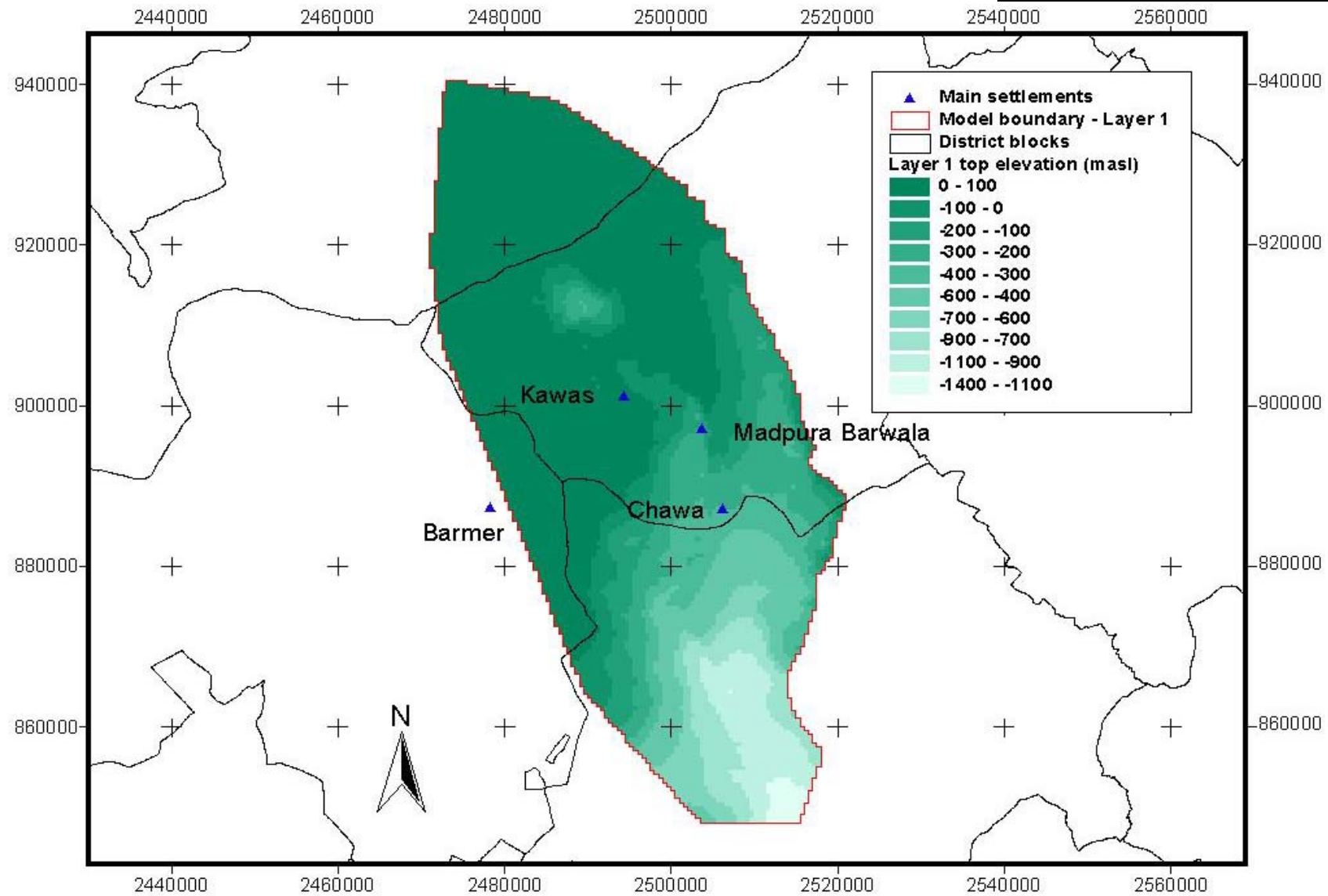


Fig. 4.22 : Model geometry of Layer 1: Top surface is top of Thumbli Formation

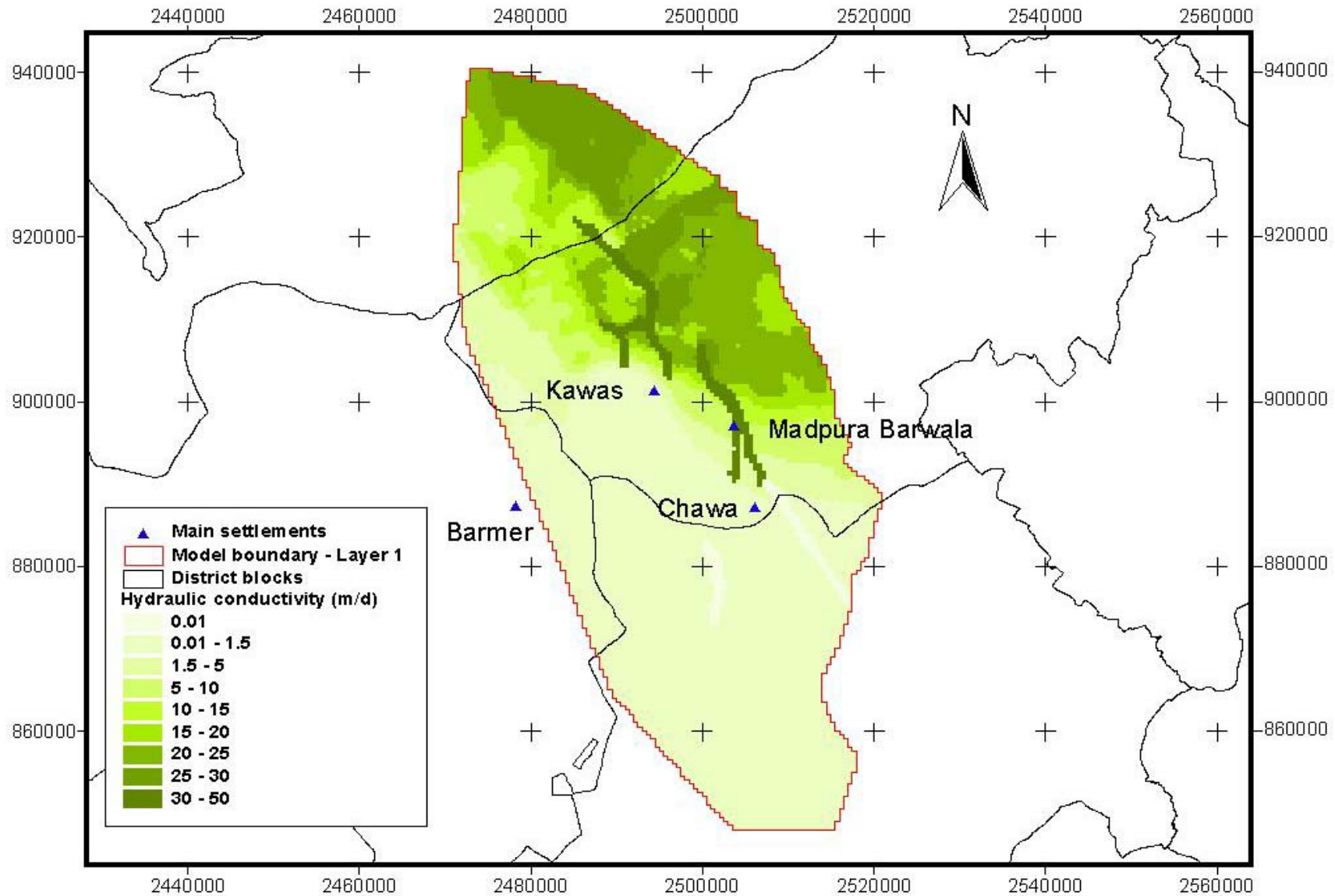


Fig. 4.23 : Variation in hydraulic conductivity (m/day) in Layer 1

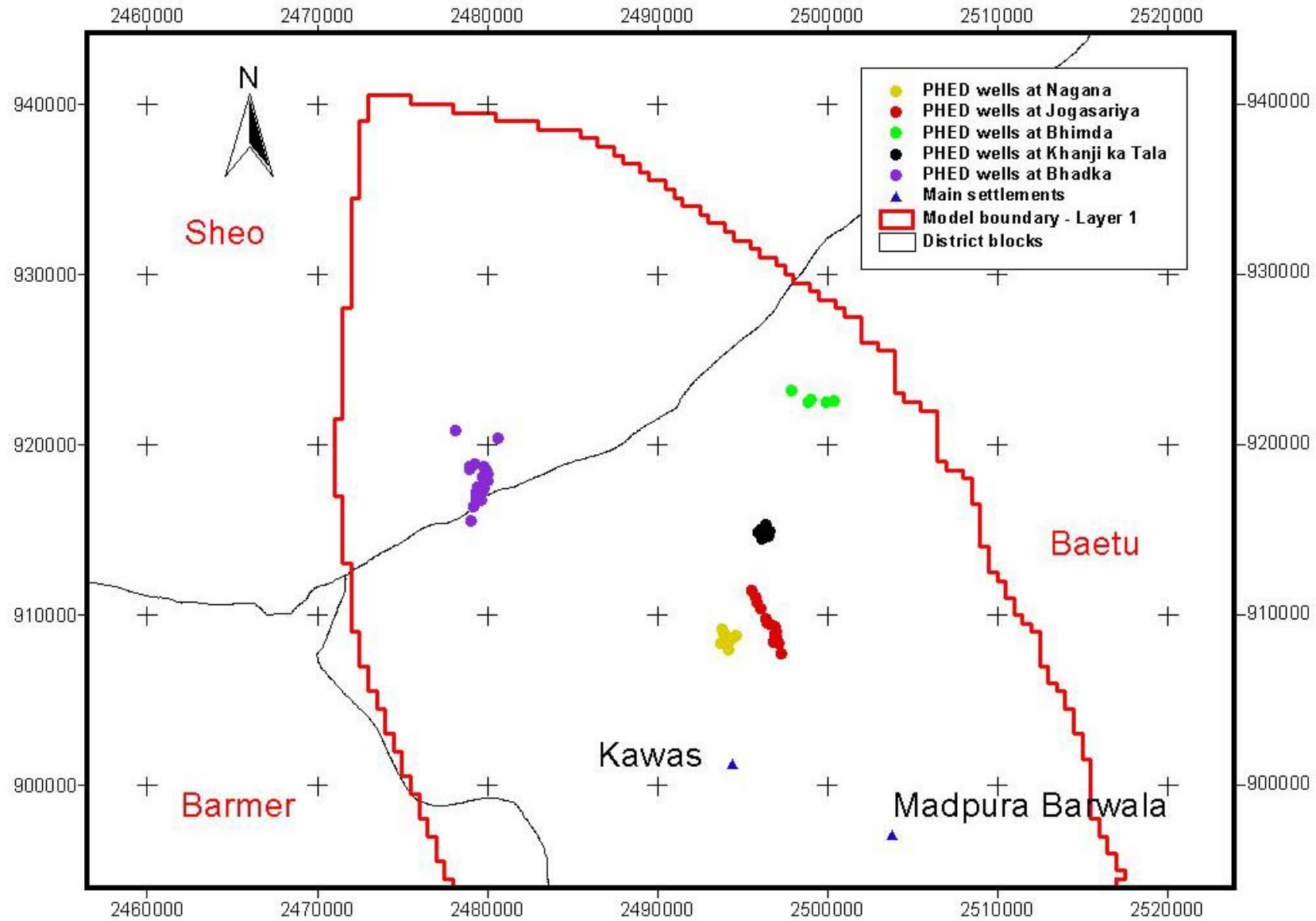


Fig. 4.24 : Ground-water abstraction: current (PHED) well-fields

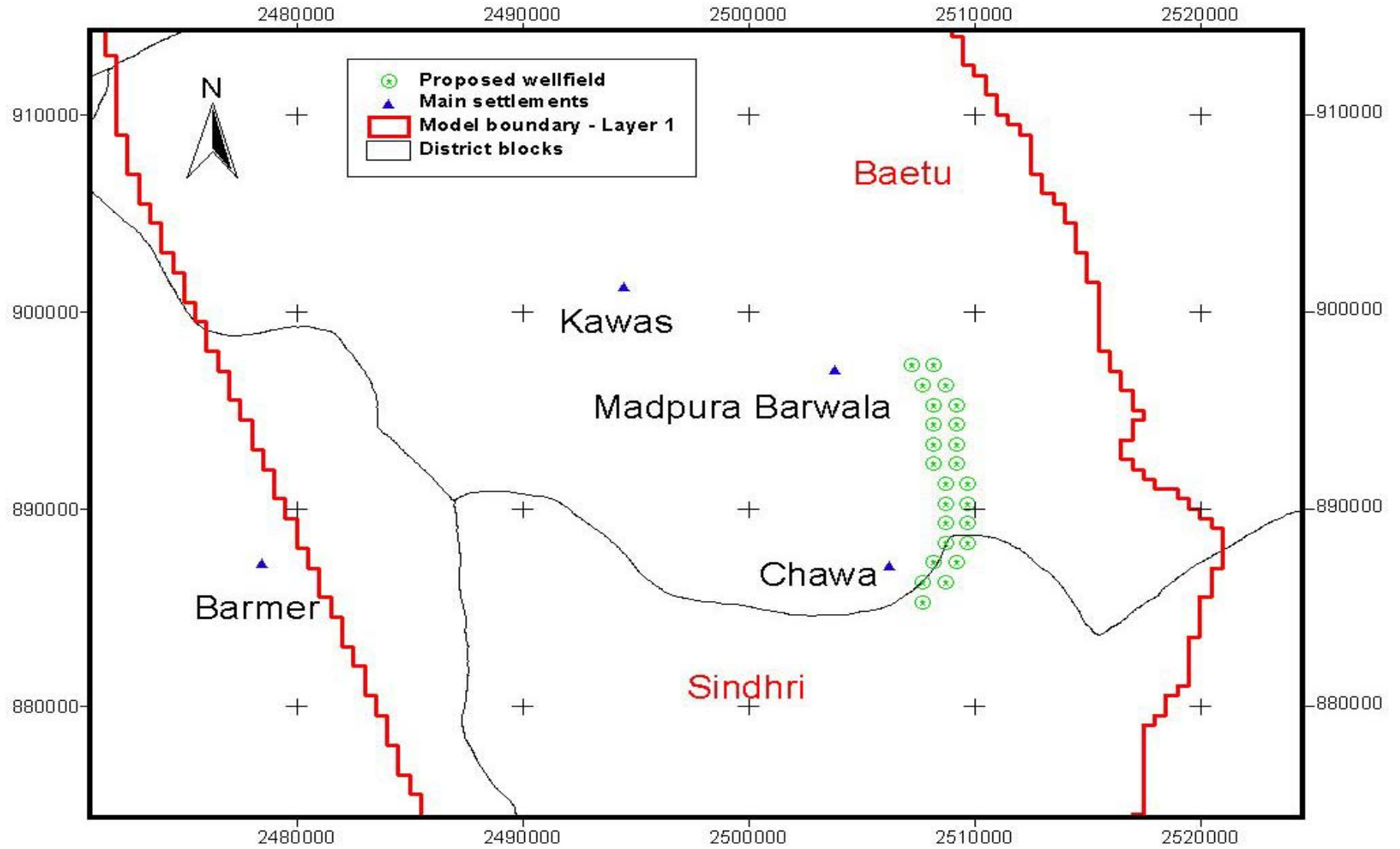


Fig. 4.25 : The conceptual saline well-field used in the model predictions

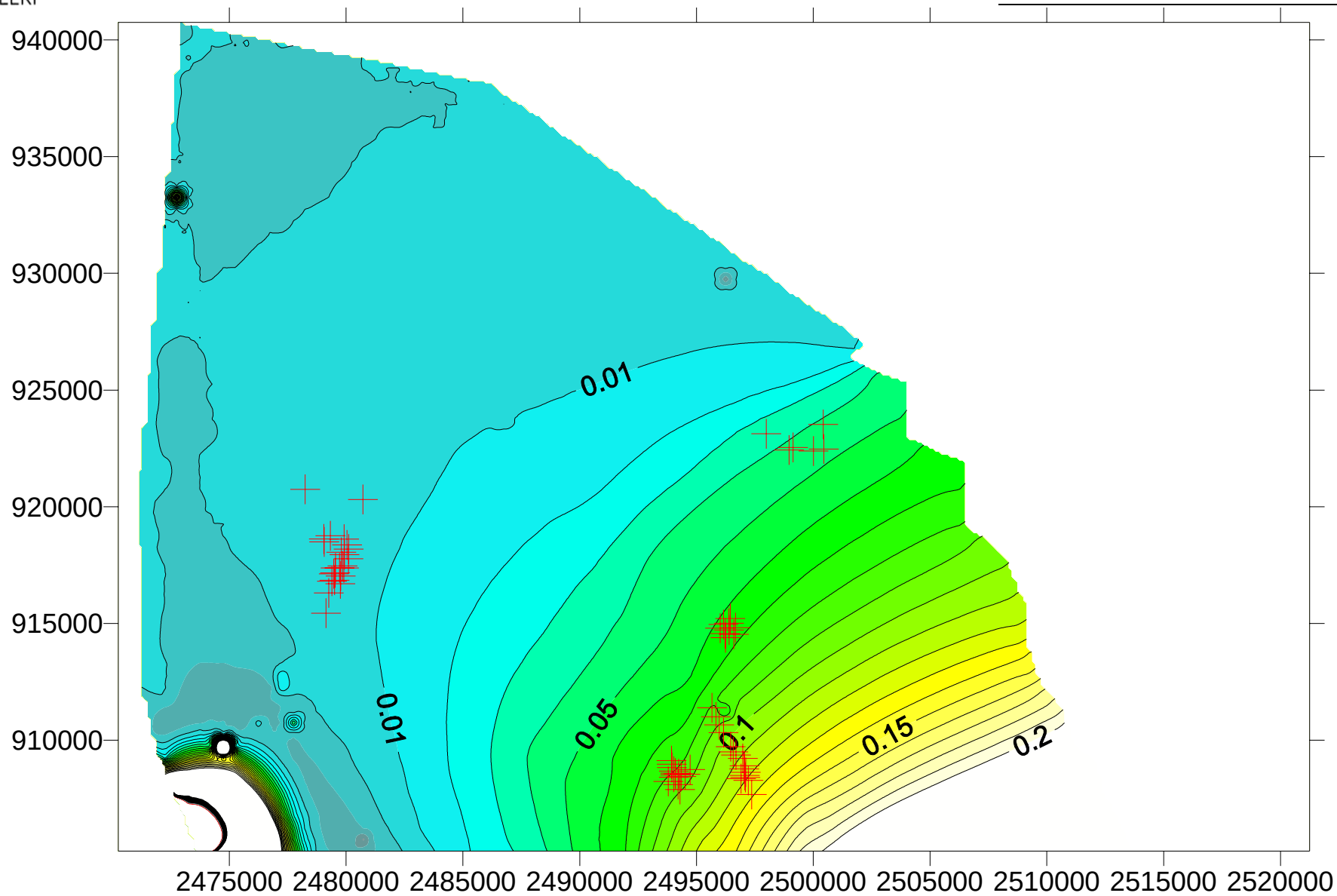


Fig. 4.26 : The model prediction of the impact of the saline abstraction

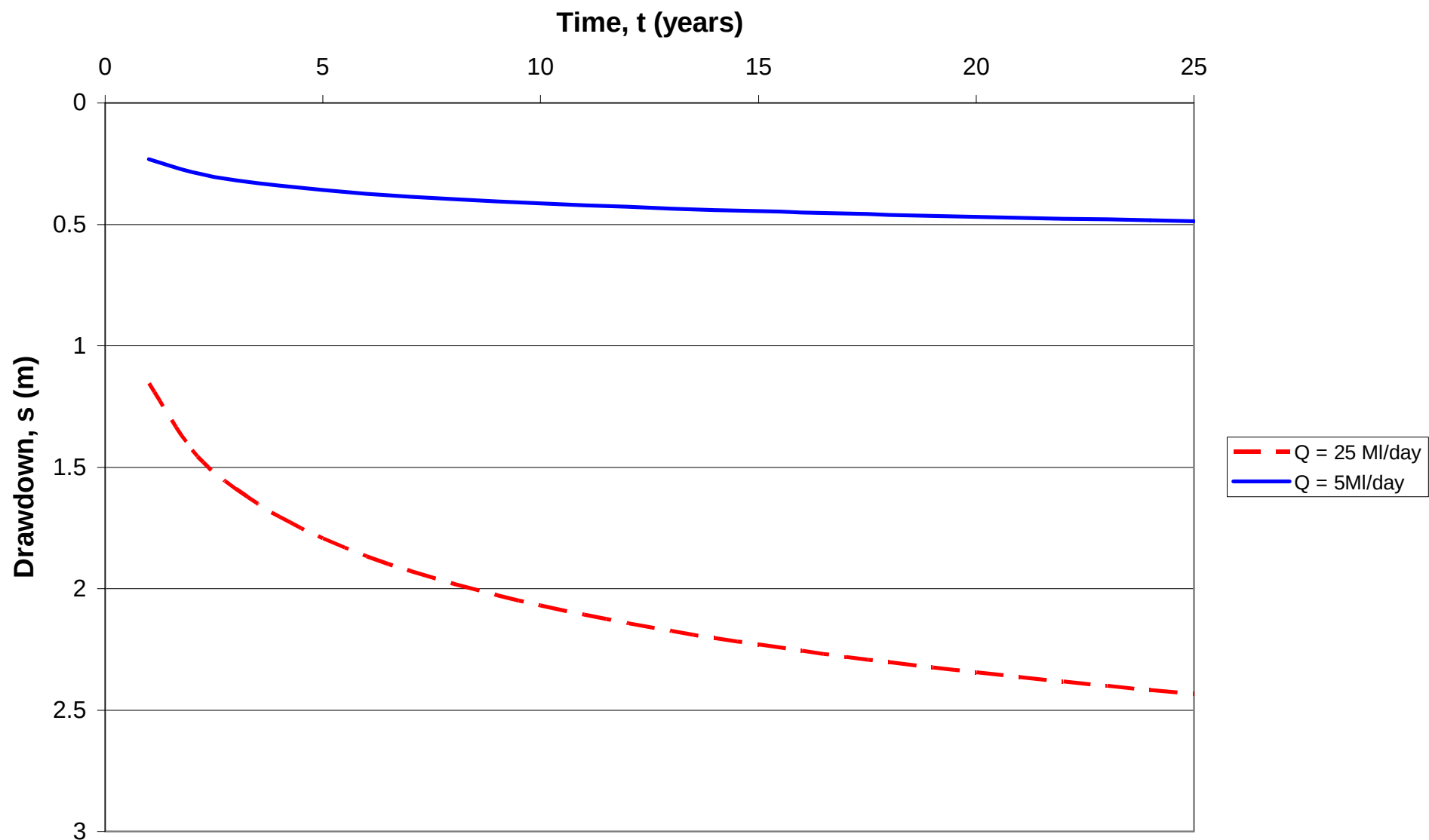


Fig. 4.27 : Predicted drawdown with time at a distance of 15 km from a well pumping saline water at constant rate