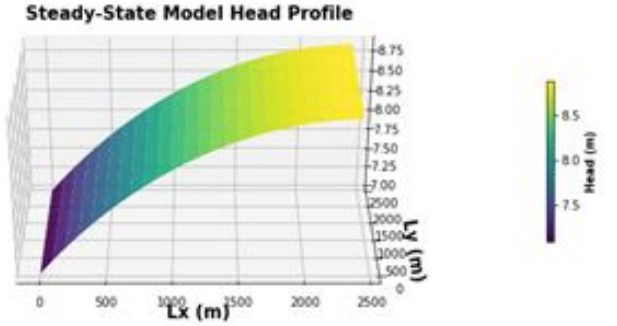
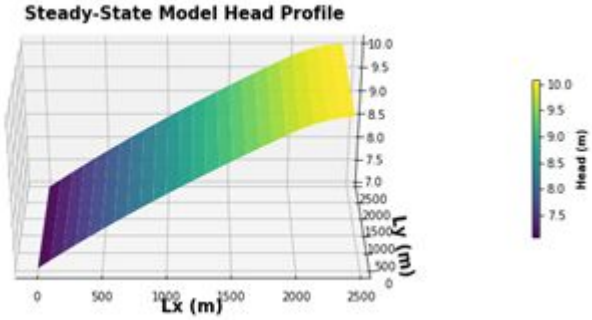
Homework 3 - Recharge

HWRS 582
2/27/2020
David Murray and Danielle Tadych

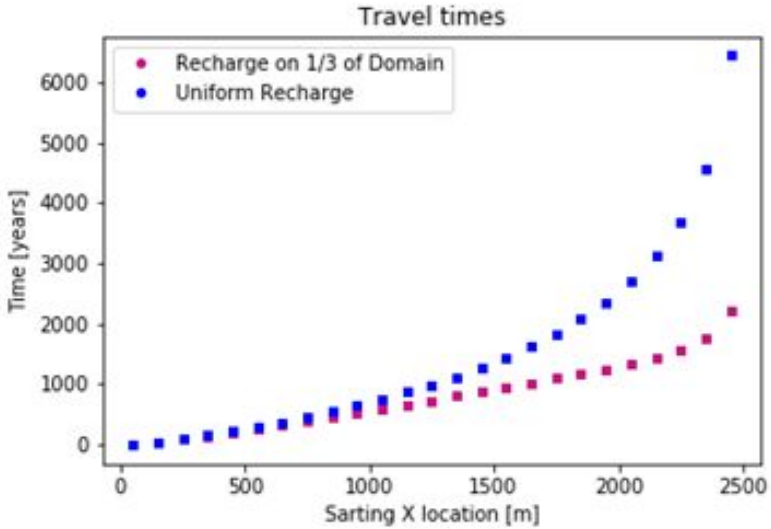
Part 1 - Uniform versus partial recharge



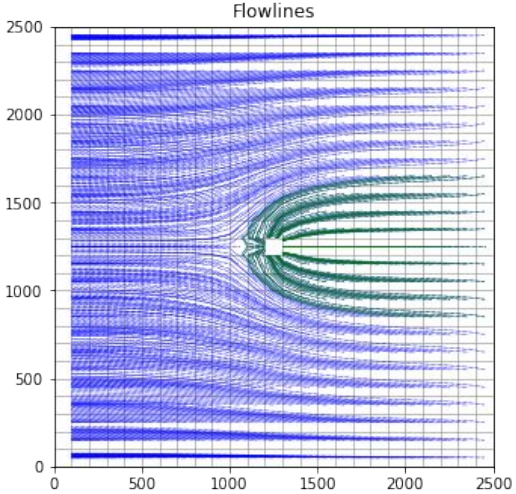


1. How does the head profile change when the recharge is only applied to the right 1/5 of the domain? Why is this?

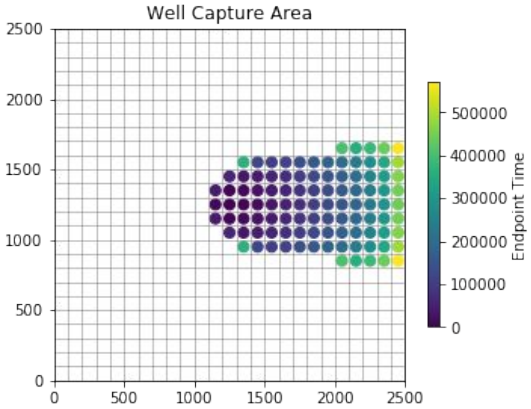
2. How do the ages and the relationship between age and recharge location change? Explain why this makes sense?



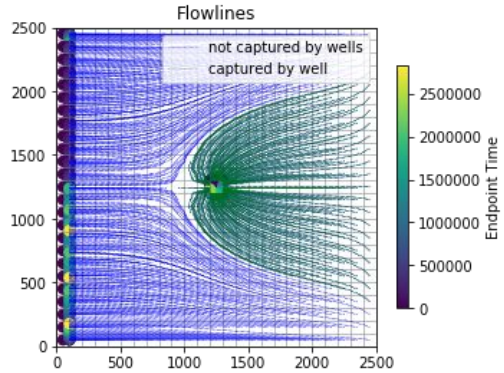
Part 2 - Well that's nice

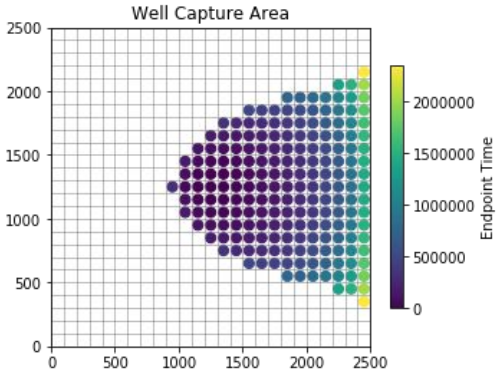


Recharge on ⅕ of the domain

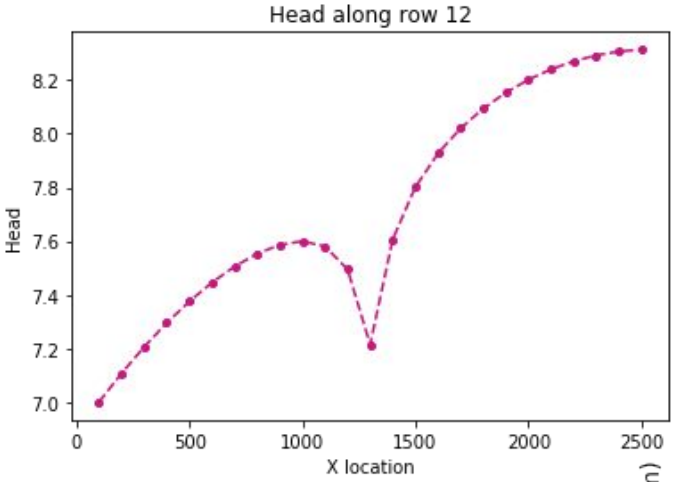


Uniform Recharge



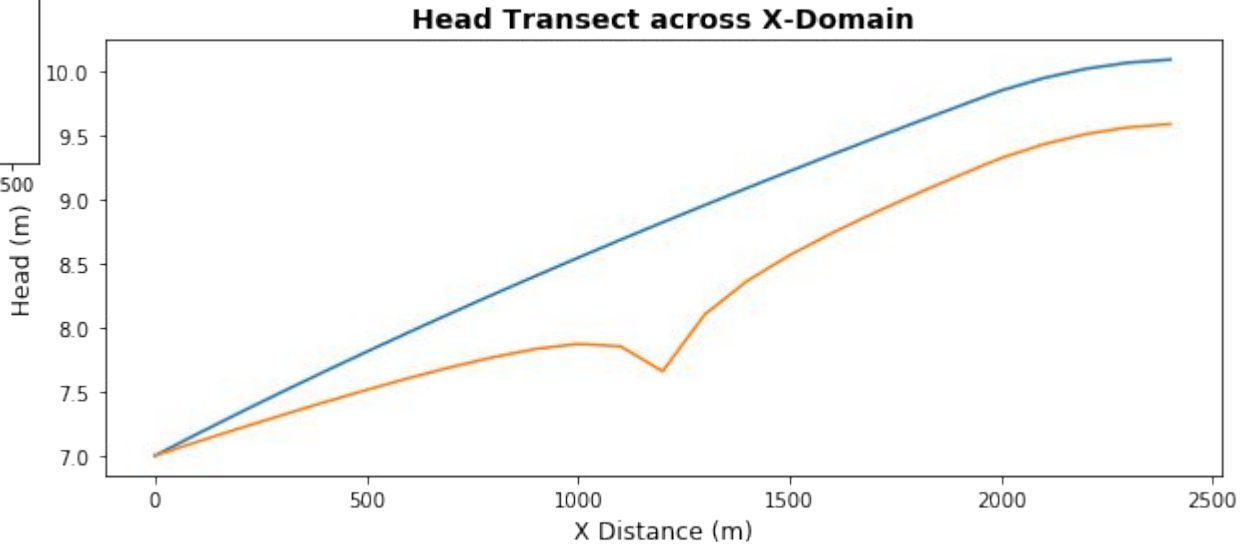


Part 2 - Gradient Change



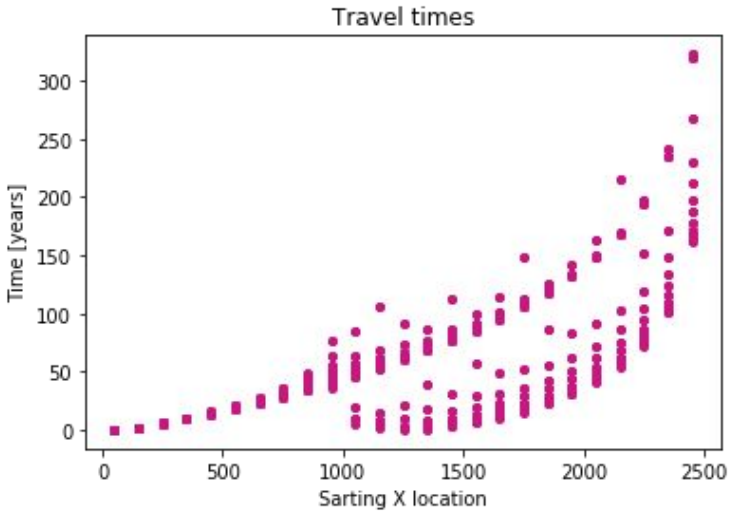
Uniform Recharge

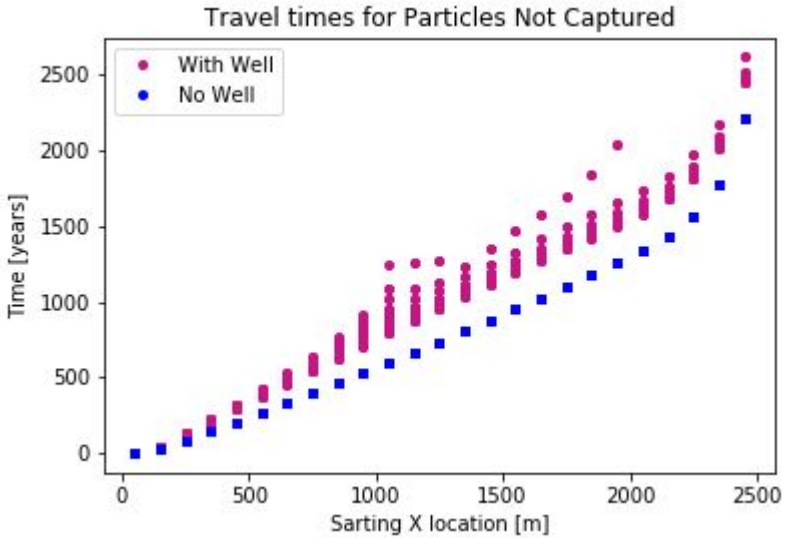
Recharge on ⅕ of the domain



Part 2 - Travel Times

With Well - Uniform Recharge





Optional Part 3

Total recharge = 30 m^3/d