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% Initial heads for stress period 1
% For transient model the initial heads should be the simulated heads from
% the previous stress period
% Layers 1-100
initial_heads = [];
for i = 1:100
    data1 = readtable('C:\Users\nyamaa.mendsaikhan\CPTS575_project\Data\initialheads.xlsx', 'Sheet1');
    data2 = table2array(data1);
    data3 = transpose(data2);
    data4 = data3(:);
    nana = isnan(data4);
    data4(nana) = [];
    initial_heads = [initial_heads data4];
    i=i+1;
end

% Combining all data
initial_heads_stp1 = initial_heads(:);

% Initial heads for stp 2-90
initial_heads_stp2_90 = heads_1_90(:,1:89);
initial_heads = [initial_heads_stp1 initial_heads_stp2_90];
project_intlheads = initial_heads(:,71:90);
project_initial = array2table(project_intlheads);
writetable(project_initial, 'C:\Users\nyamaa.mendsaikhan\CPTS575_project\Data\final\project_initial.xlsx', 'Sheet1');

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