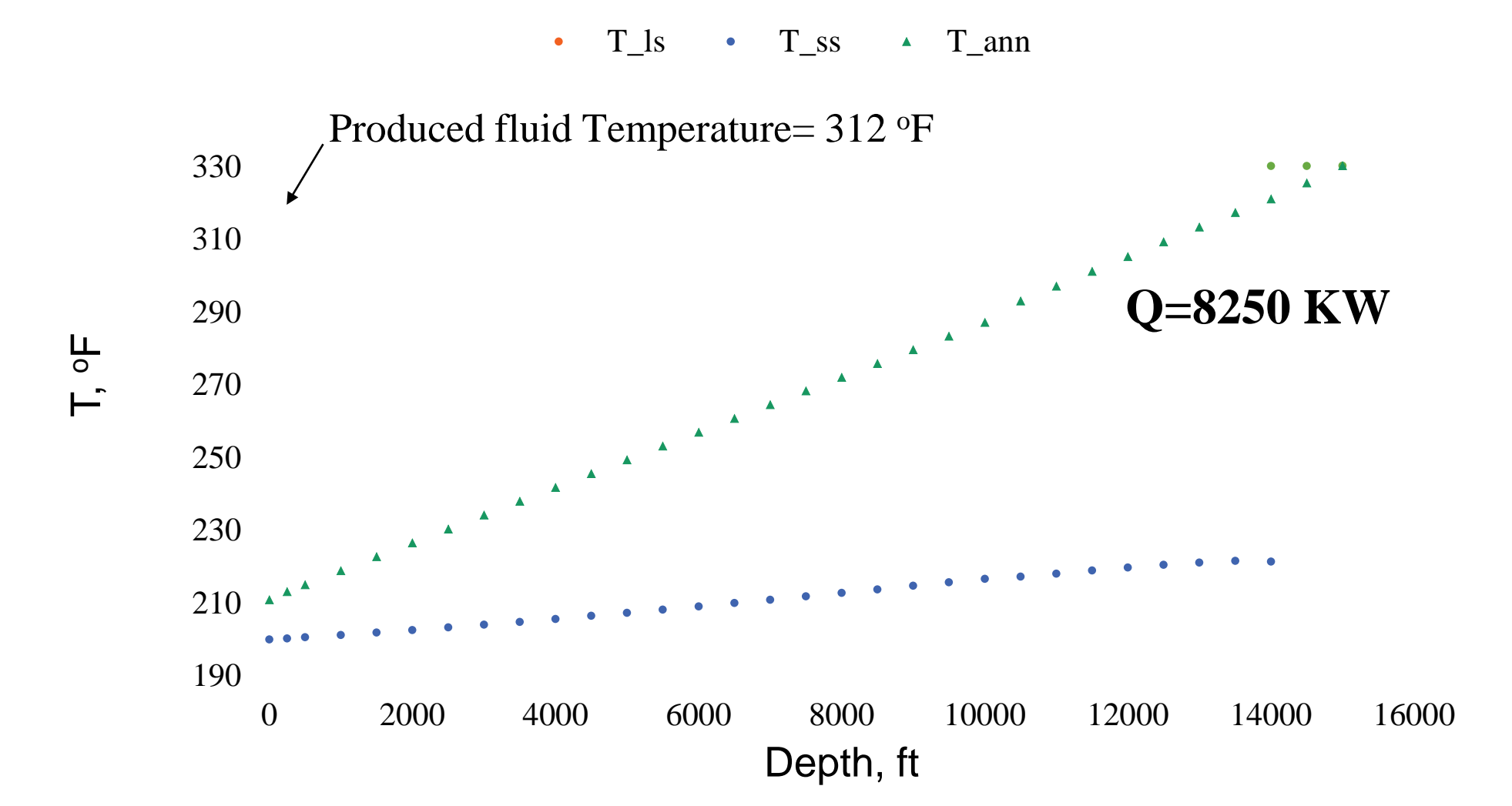


# Introduction



**Fig 3. Fluid temperature in three conduits at  $q=500$  gpm and  $N_2$  depth=14000 ft**