```matlab
fileID = fopen('filein.txt','w');
fprintf(fileID,'ICASE, %1.0f \r\n',2);
fprintf(fileID,'methd, %1.0f \r\n',0);
fprintf(fileID,'drawdp, %1.5f \r\n',0.0001);
fprintf(fileID,'IMODE, %1.0f \r\n',1);
fprintf(fileID,'LEVEL, %1.0f \r\n',1);
fprintf(fileID,'DEPTH, %1.3f \r\n',Depth);
fprintf(fileID,'GRT, %2.1f ,DEPTH, %1.1f \r\n',Gradienti,10);
fprintf(fileID,'GRT, %2.1f ,DEPTH, %1.1f \r\n',0,0);
fprintf(fileID,'GRT, %2.1f ,DEPTH, %1.1f \r\n',0,0);
fprintf(fileID,'GRT, %2.1f ,DEPTH, %1.1f \r\n',0,0);
fprintf(fileID,'MAXTEMP, %3.1f \r\n',330);
fprintf(fileID,'WELLRATIO, %1.2f \r\n',1);
fprintf(fileID,'RESOPTION, %1.0f \r\n',0);
fprintf(fileID,'FRACTOPT, %1.0f \r\n',2);
fprintf(fileID,'FRACTAREA, %1.0f \r\n',0);
fprintf(fileID,'FHEIGHT, %3.1f \r\n',WellSeparation);
fprintf(fileID,'FWIDTH, %1.0f \r\n',0);
fprintf(fileID,'DEVIATION, %1.1f \r\n',0);
fprintf(fileID,'VOLUMEOPT, %1.0f \r\n',1);
fprintf(fileID,'FRACTNUMB, %2.0f \r\n',25);
fprintf(fileID,'FRACTSEP, %1.1f \r\n',60);
fprintf(fileID,'RESVOLUME, %1.0f \r\n',0);
fprintf(fileID,'FRACTDIST, %1.0f \r\n',1);
fprintf(fileID,'FRACTFLOW, %1.0f, %1.2f, %1.3f, %1.3f, %1.1f \r\n',1 , 0.05 ,
0.125 , 0.325 , 0.5);
fprintf(fileID,'FRAREA, %1.0f, %1.2f, %1.2f, %1.2f, %1.2f \r\n',1 , 0.25 ,
0.25 , 0.25 , 0.25);
fprintf(fileID,'INJTEMP, %2.1f \r\n',DesignInjecTemp);
fprintf(fileID,'WATERLOSS, %1.2f \r\n',0.02);
fprintf(fileID,'FPUMP, %1.2f \r\n',0.8);
fprintf(fileID,'TEMPDROP, %2.0f \r\n',15);
fprintf(fileID,'FLOW, %2.1f \r\n',WellFlowRate);
fprintf(fileID,'IMPEDANCE, %1.2f \r\n',1.57);
fprintf(fileID,'INJDIAM, %1.1f \r\n',7);
fprintf(fileID,'PRODDIAM, %1.1f \r\n',7);
fprintf(fileID,'FCAP, %1.4f \r\n',CapacityFactor);
fprintf(fileID,'FAFDC, %1.2f \r\n',0.09);
fprintf(fileID,'LIFETIME, %2.0f \r\n',LifetimePlant);
fprintf(fileID,'FCR, %1.2f \r\n',FACR);
fprintf(fileID,'LLC, %1.1f, %1.2f, %1.2f, %1.2f, %1.3f, %1.0f, %1.1f, %1.2f
\r\n',0.5 , 0.11 , 0.15 , 0.04 , 0.36, 0, 0.1, 0.02);
fprintf(fileID,'VCCAPW, %1.0f , FCCAPW, %1.3f \r\n',0,0);%1);   %Drilling
Cost (M$)
fprintf(fileID,'VCCAPS, %3.1f , FCCAPS, %1.2f \r\n',0,0);%1,1);
%Stimulation Cost (M$)
fprintf(fileID,'VCCAPP, %2.1f , FCCAPP, %1.2f
\r\n',(InvestmentCostMITEGS/10^6),1); %Surface Plant Cost (M$)
fprintf(fileID,'VCCAPD, %1.0f , FCCAPD, %1.2f \r\n',0,1);   %Distribution
Cost (M$)
fprintf(fileID,'VCCAPE, %1.0f , FCCAPE, %1.2f \r\n',0,0);   %Exploration Cost
(M$) (Is set at 0!)
fprintf(fileID,'VCOAME, %1.0f , FCOAME, %1.2f \r\n',0,1);   %Wellfield
Maintenenace Cost (M$/yr)
fprintf(fileID,'VCOAMP, %2.1f , FCOAMP, %1.2f \r\n',OperatingCostMITEGS,1);
%Surface Plant Maintenance Cost  (M$/yr)
```

```matlab
fprintf(fileID,'VCOAMA, %1.0f , FCOAMA, %1.2f \r\n',0,1);   %Water Cost
(M$/yr)
fprintf(fileID,'TVCOAM, %1.0f \r\n',0); %Total yearly O&M Cost (M$/yr)
fprintf(fileID,'DDTH, %1.3f \r\n',0);
fprintf(fileID,'TSURF, %2.0f , TENV, %2.0f \r\n',15,25);
fprintf(fileID,'ROCKPROP, %4.1f , %4.1f, %1.1f \r\n',1050,2700,3);
fprintf(fileID,'RAMEY, %1.0f \r\n',Ramey);
fprintf(fileID,'NEWCOSTS, %1.0f \r\n',Newcosts);
fprintf(fileID,'POWEROPTION, %1.0f \r\n',Poweroption);
fprintf(fileID,'ELECPRICE, %1.3f \r\n',elprice);
fprintf(fileID,'PRINTOUTPUT, %1.0f \r\n',Printoutput);
fprintf(fileID,'ECONMODEL, %1.0f \r\n',1);
fprintf(fileID,'CHPFRACTION, %1.3f \r\n',0.001);
fprintf(fileID,'ETAUALPHA, %3.1f \r\n',40);
fprintf(fileID,'ETAUBETA, %3.1f \r\n',400);
fprintf(fileID,'TCONDENSER, %3.1f \r\n',50);
fprintf(fileID,'TENTBOTTOM, %3.1f \r\n',100);
fprintf(fileID,'PTYPE, %2.1f \r\n',1);
fprintf(fileID,'OPT, %1.0f \r\n',0);
fclose(fileID);
```