SCOPE FOR FUTURE WORK

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1. In the present thesis , the model developed for surface choke system has been extended for bottomhole choke resulting in a higher value of discharge coefficient. There is scope for developing a model to predict the performance of bottomhole choke based on flow of compressible fluid.

2. The commingling model presented in this thesis deals with the flow of fluids from the zones having sufficient potentials for self flow. However, when one zone is depleted or not having sufficient energy to flow of its own then the oil from this zone can be lifted utilizing the gas energy of another zone by proper design of bottomhole choke. There is a scope for mathematical analysis of such a system and field trial test it.

3. The present commingling flow model employs the principles of mixing of two single fluid for resultant pressure calculation resulting higher deviation in predicting the tubing head pressure. There is a scope to develop a model for resultant pressure calculation in mixing of two non-ideal streams.