

Introduction to Life of Mine Planning Process

For underground mining

Introduction to Cut-off grade

- ❑ Cut-off grades provide the basis for accurate evaluation of a mine's reserve and resource.
- ❑ Incremental cut off grades also provide an economic basis for providing mill feed ore if either of the mill or mine is not operating at full capacity.
- ❑ Cut-off Report is prepared using revenue, cost, and geo-metallurgical information that will be compiled and validated by Site personnel.
- ❑ Estimation of Cutoff Grade (4 Cut off Grades are calculated) using 12 months trailing periods,
 - Break Even Cut-off Grade (BCOG)
 - Incremental Cut-off Grade (ICOG)
 - Mill Cut-off Grade (MCOG)
 - Resource Cut-off Grade (RCOG)
- ❑ Budget Block Model is handed over by Resources model Team
 - G-T (Grade tonnage) curve to compare the various model
 - Analysis the model to identify any gaps

Life of Mine Planning Process

- ❑ Using, MSO (Mineable Stope Optimizer) and given the constraints using a certain mining method and design parameters stope shapes are generated.
- ❑ The outputs (stope wireframes, section strings and reports) are suitable for use in strategic and tactical planning.
- ❑ The design for infrastructure are carried out with stope shapes as guide to maximize profit.
- ❑ This will be run through the planning process until the project is exported to EPS for scheduling.
- ❑ When satisfy that all the links are good and the sequence of activities make sense, the schedule is optimized using SOT (Schedule Optimization Tool).
- ❑ Life of Mine Schedule is generated based on the NPV.
- ❑ Reserve estimation is carried out based on the LOM.
- ❑ The Physicals are taken through Xeras model to generate the report for financials

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