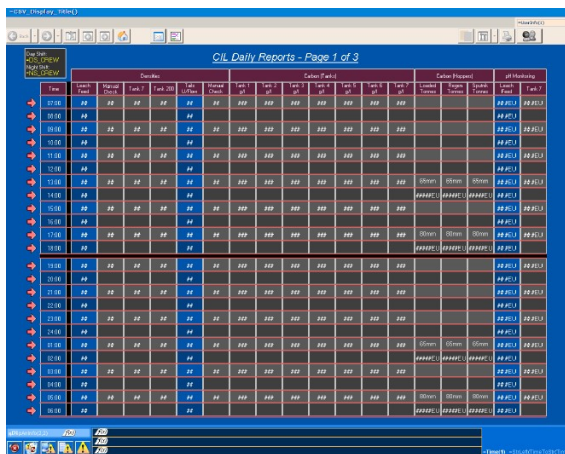


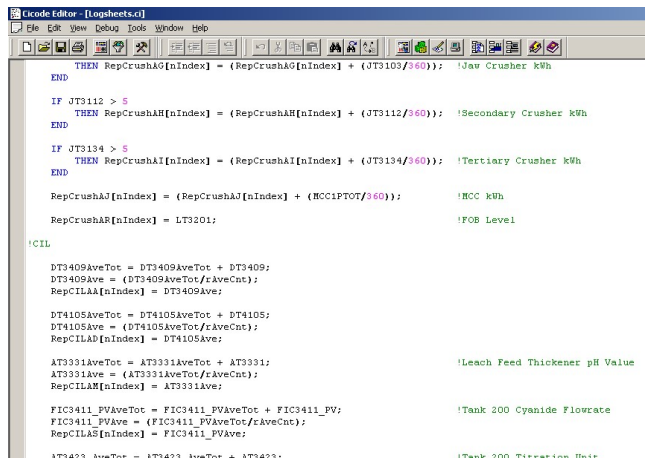
**Site:** Union Reefs Gold Mine  
**Location:** Northern Territory - Australia  
**Description:** SCADA Based Electronic Logsheets  
**Equipment:** CitectSCADA / Citect Reports / CiCode

To reduce the need for Operators to manually document and report plant operating data and to limit the errors that are often brought about by the need to 'back fill' data, CitectSCADA's inbuilt Reporting functions and CiCode programming language were used to log average and totalised values from plant instrumentation wherever possible.

The total number of daily data entries on the site is over 2,300 of which over 90% are now automatically generated, and data is automatically logged to the site's server for use by the Metallurgical Reporting System.



The screenshot shows a data table with columns for Time, Status, and various process parameters. The table is organized into sections for Grinding, Flotation, and Leaching. Each row represents a specific time interval, and the columns contain numerical values representing different plant metrics.



```

THEN RepCrushAG[nIndex] = (RepCrushAG[nIndex] + (JT3103/360)); !Jaw Crusher kWh
IF JT3112 > 5
  THEN RepCrushAH[nIndex] = (RepCrushAH[nIndex] + (JT3112/360)); !Secondary Crusher kWh
END
IF JT3134 > 5
  THEN RepCrushAI[nIndex] = (RepCrushAI[nIndex] + (JT3134/360)); !Tertiary Crusher kWh
END
RepCrushAJ[nIndex] = (RepCrushAJ[nIndex] + (MCC1PTOT/360)); !MCC kWh
RepCrushAR[nIndex] = LT3201; !FOB Level
!CIL
DT3409AveTot = DT3409AveTot + DT3409;
DT3409Ave = (DT3409AveTot/aveCnt);
RepCLAA[nIndex] = DT3409Ave;
DT4105AveTot = DT4105AveTot + DT4105;
DT4105Ave = (DT4105AveTot/aveCnt);
RepCLAB[nIndex] = DT4105Ave;
AT3331AveTot = AT3331AveTot + AT3331;
AT3331Ave = (AT3331AveTot/aveCnt);
RepCLAM[nIndex] = AT3331Ave;
FIC3411_FVAveTot = FIC3411_FVAveTot + FIC3411_FV;
FIC3411_FVAve = (FIC3411_FVAveTot/aveCnt);
RepCLAS[nIndex] = FIC3411_FVAve;
LT3423_3AveTot = LT3423_3AveTot + LT3423;
LT3423_3Ave = (LT3423_3AveTot/aveCnt);
RepCLAT[nIndex] = LT3423_3Ave;
  
```

Result: Elimination of the paper based Reporting System, improved reporting accuracy, and less Operator time spent filling out paperwork.