

Controlled Blasting – Times Have Changed

| Description | 1960s Methods | Current Methods | Benefits of Current Methods |
|--------------|------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------|
| Explosives | Dynamite Hazardous, easily detonated | Emulsion explosives Safe, stable | Optimum charge weights Lower noise and vibration |
| Detonators | Primacord Inaccurate timing, noisy | Electronic detonators Accurate to microseconds | Consistency Predictable results |
| Confinement | Open holes | Confined at the top Mats and borehole stemming | Well-controlled Muffled detonation and no flyrock |
| Placement | Tape measure | GPS located holes Drilled accurately | Controlled relief Reproducible results |
| Monitoring | Analog monitor | Digital devices Accurate and precise | Immediate results Monitor noise and vibration |
| Data Keeping | Hand-drawn diagrams | Videos and photos | Digital, easy to compare |



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