

## Escape Completion Process

Escape is a multi-zonal completion method combining several new technologies into one remarkable time-saving system

With the Escape Completion System multiple perforating guns, isolation devices and firing systems are attached to the outside of the casing as it is being run into the well. The guns are positioned across the target zones and perforate through the casing.

The guns modules can be configured to perforate the formation in any desired orientation. As each gun module is fired, a flapper valve is activated to isolate the newly created perforations from the lower previously stimulated zones. This ensures accurate and efficient sand placement and considerable time saving to the operator.

Ultimately, the Escape process provides better zonal isolation, leading to better stimulation, which leads to increased production.

### Applications:

The Escape® Completion Process is ideal for use when:-

- multiple intervals need to be perforated
- wells are under-stimulated or un-stimulated

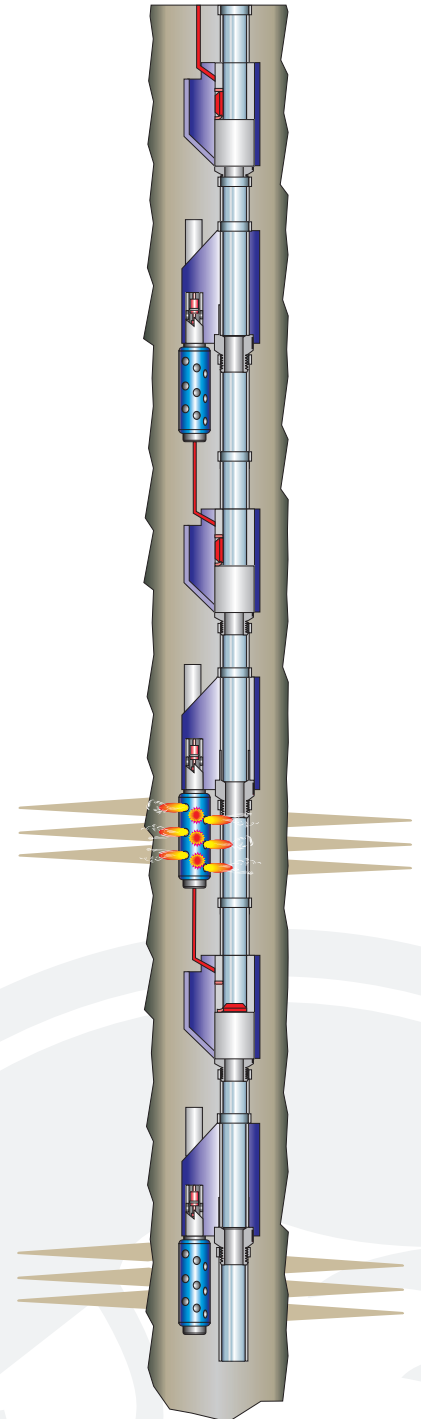
Escape® has already been successfully field-proven by major operators in a wide range of locations and well conditions, including Western Canada, Alaska, Oklahoma, Wyoming, Louisiana, West Texas and Mexico.

### Benefits:

- Dramatically reduces completion times and operating costs
- Field proven system on depths up to 12,000ft
- Better well productivity plus access to incremental reserves and revenues
- Reduced safety and environmental risks
- Improves economics of utilising other downhole systems
- Obtain valuable data by running downhole monitoring gauges in the same trip
- Hydraulic lines used for chemical injection and bubble tubes

### Results:

- Excellent mechanical success statistics
  - \* over 1000 modules installed to date
  - \* 97% successfully fired



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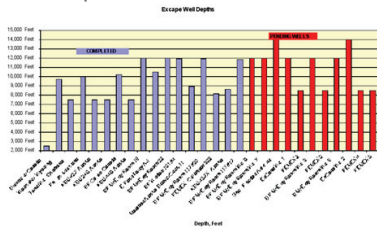
### Technical Specifications:

Casing Diameter	Gun Diameter	Required Hole Diameter
2.875"	2.375"	6.25"
3.50"	2.375"	7.875"
4.50"	2.875"	8.75"

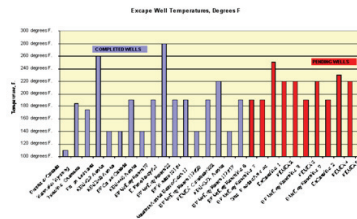
### Well Geometry variations

3.5" Monobores	5.5" x 3.5" Tapered Strings
2.875" Monobores	4.5" x 3.5" Tapered Strings

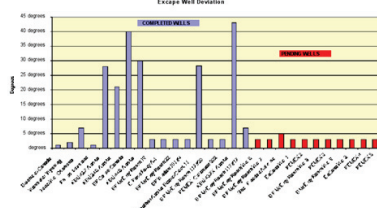
Well Depths



Bottom Hole Temperatures



Well Deviation



Mud Weights

