

# RAPTOR™ MRSS™

## COILED TUBING FRAC PACKER & MRSS SHIFTING TOOL



### OVERVIEW

Interra Energy's Raptor OC™ (Open-Close) Multistage System is composed of mechanically shiftable sleeves operated with the Mechanical Raptor Shifting Sub (MRSS™) and the AccuStim™ Frac Packer when fracturing down coiled tubing (CT) is required. It can be set up in a straddle or packer only configuration.

### OPERATION

The AccuStim Frac Packer and MRSS shifting tool are run to the bottom of the well on coiled tubing or jointed pipe.

The bottomhole assembly (BHA) is then pulled up through the Raptor OC Sleeve auto locating, shifting open and self-releasing from the profile in one continuous movement. The BHA is then set with the packer below the sleeve to isolate all lower intervals. Once the frac is complete, the packer is released and positioned above the sleeve.

The operator then has the option to run down through the Raptor OC Sleeve and shift the interval closed. The process is repeated for the remainder of the well until all intervals have been stimulated.

After the stimulation is complete, the MRSS Shifting Tool can be run to the bottom of the well and pulled to surface, opening all the Raptor OC Sleeves in one continuous motion.

### SPECIFICATIONS

MRSS				
Casing Data			Tool Data	
OD in / mm	Weight		OD	
	lb/ft	kg/m	in	mm
4.5 / 114.3	11.6	17.26	3.860	98.00
	13.5	20.09	3.780	96.00
5.5	17.0-20.0	25.30-29.78	4.750	120.60

### FEATURES & BENEFITS

- MRSS BHA can be configured in Straddle and Packer only configurations.
- Auto locate feature eliminates the time required to locate sleeves.
- MRSS Shifting tool can be run without the AccuStim packer.
- Open all valves with one continuous upward movement, no cycling required.
- Does not require a toe port to activate the first stage.
- Specialty tools assist with closing sleeves in long reach applications.
- Slimhole, post-frac shifting BHA options.
- Positive shift indication at surface.
- Ability to quickly circulate screen outs.
- Packer positioned below the sleeve protecting it from the frac.