

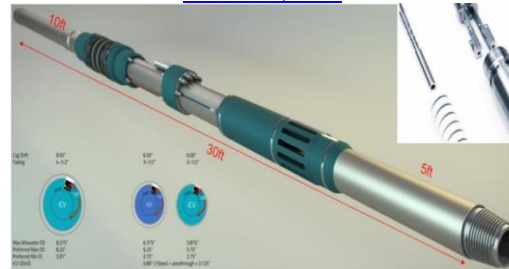
Bossa Nova™

Smart Well Command Module

- Unlimited Zone Count
- Only 3 control lines
- Compatible with any existing hydraulic ICV

- Subassembly is only 30ft in length, more compact.
- Surface control of unlimited interval with only 3 hydraulic lines
- Compatible with both deviated and horizontal wells
- Includes top side user interface, subsea integration, & lower completion hardware
- Variable choke functionality & multi-node chemical injection
- Available for hole size from 6 to 8.5 inched and greater

<http://www.entechteam.com/bossa-nova-control-system>



Smart well high zone count, High Rate applications & Ultimate Flow Assurance

- Only 3 lines - Unlimited Zone Count – Pure hydraulic system
- Value creation: can be adapted to any existing fixed or floating production facility. Minimized human factor risk and hazards

- 1) Operation Optimization
Reduced need for well interventions to shut off undesired fluid production.
- 2) Reservoir Performance
Increased oil production due to individual zonal isolation enabling shut off of undesired fluids and manipulation of reservoir pressure. Increased lift performance as water can be shut off.
- 3) Well integrity assurance
N/A

- Simultaneous ICV Operation for time saving during installation
- Simplified plug & play zone subassemblies eliminate human factor risk during installation
- Reduce control line count means more room for advance sensing and/ or deep-set chemical injection
- Value creation per well is 10-15% increase of baseline due to IOR.