

## USBS 6<sup>3</sup>/<sub>4</sub>-in. DIRECTIONAL MOTOR



C&J Energy Services' Directional Services Ultra Short Bearing Section (USBS), is the drilling industry's shortest bit-to-bend bearing assembly. The 17-inch bit-to-bend of the motor with a 1° offset consistently yields a 17.5° dog leg severity (DLS) in commercial applications. This low offset coupled with the short bearing provides better hole quality by giving the operator a near gauge hole, consistent DLS throughout the well and RPM not limited by the motor. The USBS eliminates the need for the operator to change motors when transitioning in the wellbore from the vertical to the curve to the lateral, even in high DLS wellbores. The USBS assembly delivers reliable and accurate results minimizing costs and downtime.

The motor's internal components feature leading-edge technology. All C&J Directional Services tools and systems are designed and tested in-house by experienced technicians and engineers at C&J's Research & Technology Center. By using PDC-bearing configurations, C&J Directional Services' motors will perform reliably and consistently in every environment and deliver extended run times, even in harsh drilling conditions.

### MECHANICAL SPECIFICATIONS OF USBS MOTOR WITH 1° OFFSET

Compatible power sections	6½-in. – 6¾-in.
Maximum operating torque	30,000 ft-lb
Maximum weight on bit	94 klb at 100 rpm (rotary rpm) 55 klb at 200 rpm
Maximum RPM of rotary	not limited by USBS
Maximum motor yield	17.5°
Average motor yield for curve	14.08°
Average motor yield from KOP-50°	12.04°
Average motor yield from 50°-EOC	15.70°
Average DLS for motor from KOP to EOC	11.25° (desired was 11.50°)