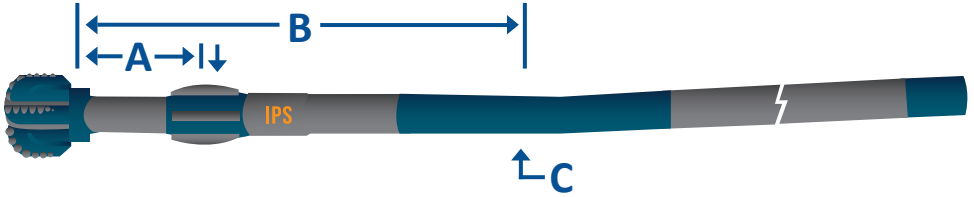




4-3/4" MUD-LUBRICATED



Description	Short Bit-To-Bend High Performance Mud-Lubricated Bearing Section
Tool OD (in)	5.63 Bearing Housing 4.75 U-Joint Housing and above
Bit to Center of Stabilizer Blade A	Slick or 21 in (0.53 m)
Bit to Bend B	48 in (1.21 m)
Radius @ Adjusting Ring C	2.81 in (71.50 mm)
Bit Box Connection	3-1/2 Reg Box
Maximum WOB	55,000 lbs
Maximum Overpull to Re-Run	210,000 lbs
Absolute Overpull	470,000 lbs
Top Sub Options	3-1/2 IF Box 3-1/2 IF Float Bore Rotor Catch
3-1/2 REG	8,000 ft-lbs
Near -Bit Stabilizer	8,500 ft-lbs
Adjustable Bend Housing	7,000 - 13,000 ft-lbs



4-3/4"
MUD-LUBRICATED

PREDICTED BUILD RATES

DEGREES/100 FT (30M)

BEND SETTING HOLE SIZE	SLICK		STABILIZER	
	6-1/2	6-3/4	6-1/2	6-3/4
0.39	0.31	0.82	3.62	3.90
0.78	3.85	2.72	6.76	7.05
1.15	7.21	6.08	9.75	10.04
1.5	10.38	9.25	12.57	12.86
1.83	13.37	12.25	15.24	15.52
2.12	16.01	14.88	17.58	17.86
2.38	18.37	17.24	19.67	19.96
2.6	20.36	19.23	21.45	21.73
2.77	21.90	20.77	22.82	23.10
2.9	23.08	21.95	23.87	24.15
2.97	23.71	22.59	24.43	24.72
3	23.98	22.86	24.67	24.96