

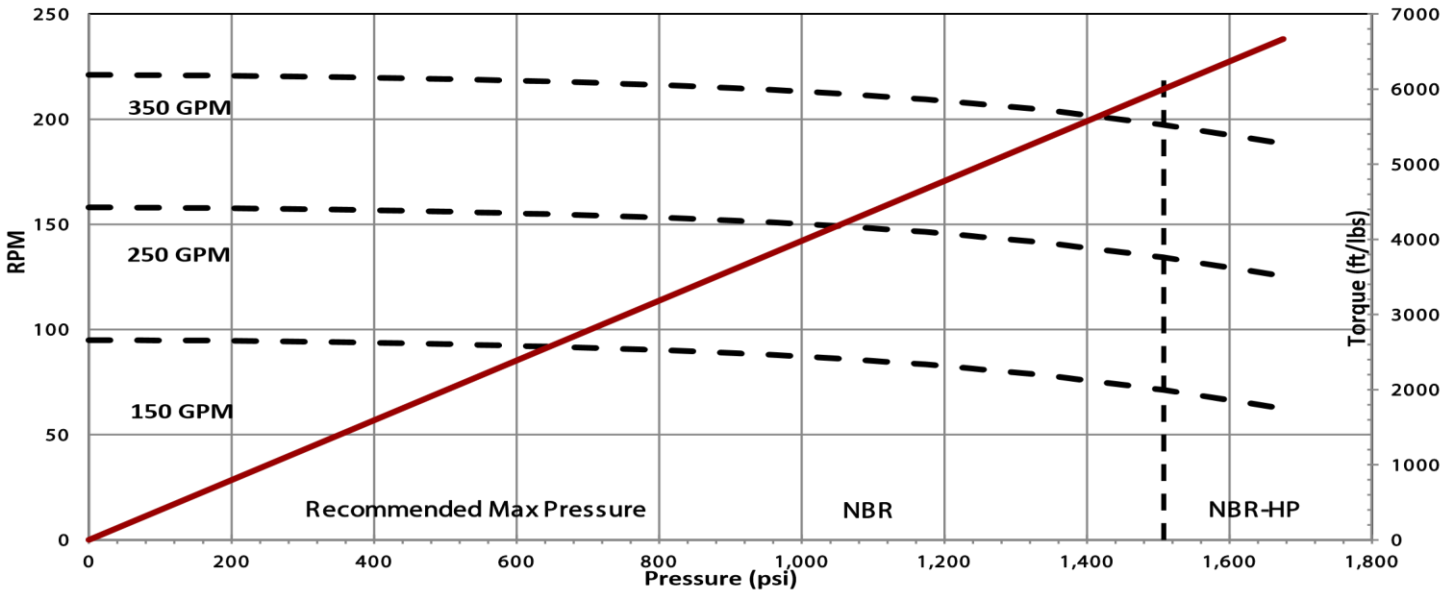


Phone: (307) 232-1234
Fax: (307) 232-1238

SUPERHAWK 500 – 5:6 Profile 6.7 Stage NBR - HP - 5" O.D.

GENERAL DATA			
BIT SIZES	6" thru 7 7/8"	MAX. WOB – (w/flow)	40,500 lbs
BIT CONNECTION	3 ½ REG	OPTIMUM WOB - (w/flow)	20,250 Lbs
TOP CONNECTION	3 ½ IF	MAX. WOB – (w/o flow)	129,000 lbs
TORQUE - CONNECTIONS	9,250 ft-lb	MAX. BIT PULL – (w/damage)	200,000 lbs
TORQUE - ABH	10,000 ft-lb	MAX BODY PULL – (w/damage)	425,000 lbs

PHYSICAL PROPERTIES	
BIT TO BEND LENGTH (ABH)	63.38 in.
BIT TO BEND LENGTH (FIXED)	51.13 in.
NOMINAL LENGTH	353 in.
WEIGHT	1,450 lbs
PERFORMANCE DATA	
FLOW RANGE	150 - 350 gpm
SPEED RANGE	90 - 220 rpm
SPEED RATIO	.630 rev/gal
MAX. DIFFERENTIAL PRESSURE	1510 psi
TORQUE RATIO	3.98 ft-lb/psi
TORQUE AT MAX DIFFERENTIAL	6,000 ft-lbs
STALL TORQUE	9,000 ft-lbs



CALCULATED BUILD UP RATES – DEGREES / 100 ft.* (FIXED)								
Angle (Deg)	Hole Size (in) – Slick Sleeve				Hole Size (in) - Stabilized			
	6"	6 1/8"	6 3/4"	7 7/8"	6"	6 1/8"	6 3/4"	7 7/8"
0.25	2.7	2.6	1.7		1.3	1.3	1.7	2.4
0.50	4.0	3.9	3.0		2.8	2.9	3.2	3.9
0.75	5.3	5.2	4.3	2.8	4.3	4.4	4.7	5.4
1.00	6.6	6.5	5.6	4.1	5.8	5.9	6.3	6.9
1.25	7.9	7.8	6.9	5.4	7.3	7.4	7.8	8.4
1.50	9.2	9.1	8.2	6.7	8.9	8.9	9.3	10.0
1.75	10.5	10.4	9.5	8.0	10.4	10.4	10.8	11.5
2.00	11.8	11.7	10.8	9.3	11.9	12.0	12.3	13.0
2.25	13.1	13.0	12.1	10.6	13.4	13.5	13.9	14.5
2.50	14.4	14.3	13.4	11.9	14.9	15.0	15.4	16.0
2.75	15.7	15.6	14.7	13.2	16.5	16.5	16.9	17.5
3.00	17.0	16.9	16.0	14.5	18.0	18.0	18.4	19.1

CALCULATED BUILD UP RATES – DEGREES / 100 ft.* (ABH)								
Angle (Deg)	Hole Size (in) – Slick Sleeve				Hole Size (in) - Stabilized			
	6"	6 1/8"	6 3/4"	7 7/8"	6"	6 1/8"	6 3/4"	7 7/8"
0.25	1.3	1.2			1.2	1.3	1.6	2.3
0.50	2.6	2.5	1.9		2.7	2.7	3.1	3.8
0.75	3.9	3.8	3.2	2.1	4.1	4.2	4.6	5.2
1.00	5.2	5.1	4.5	3.4	5.6	5.6	6.0	6.7
1.25	6.5	6.4	5.8	4.7	7.0	7.1	7.5	8.1
1.50	7.9	7.7	7.1	6.1	8.5	8.6	8.9	9.6
1.75	9.2	9.0	8.4	7.4	9.9	10.0	10.4	11.0
2.00	10.5	10.4	9.8	8.7	11.4	11.5	11.8	12.5
2.25	11.8	11.7	11.1	10.0	12.9	12.9	13.3	13.9
2.50	13.1	13.0	12.4	11.3	14.3	14.4	14.7	15.4
2.75	14.4	14.3	13.7	12.6	15.8	15.8	16.2	16.9
3.00	15.7	15.6	15.0	13.9	17.2	17.3	17.7	18.3

* Actual Build Up Rates subject to varying factors; including formation, weight on bit.