Case History: Weatherford - North Dakota

Target: Loose Carbide Junk on

top of 3 7/8" String Mill

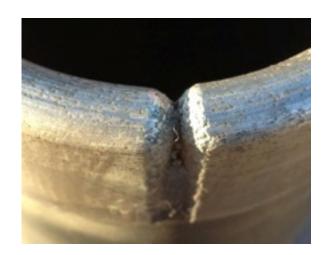
Shoe: 3 7/8" x 3 1/8" XDS

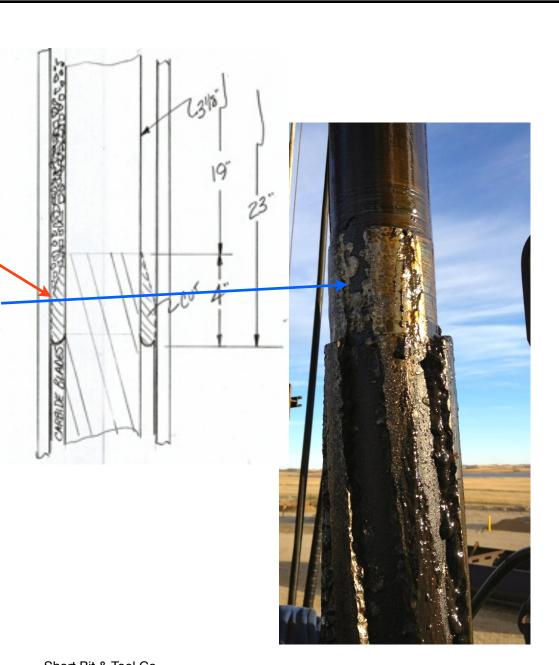
Diamond-Impreg

Operational Info: 100-120 RPM power swivel and 500 to 1000 lbs (max 3500 lbs)

Results: Cut 23" in 18 hrs and then progress stopped. Recovered fish-

Shoe Wear: about 15%





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I was able to average 148 RPM. w/ the weight you listed.
Casing- 4.5" 11.60# 4.000 ID
Fish from top down was:
Chemical cut jt. of 2,375 PH6 P-110 - 15,50' long
XO sub- 3.125" OD x 1.27'
XO sub- 3.125" OD x 1.04'
Bit sub - 3.187" OD x 1.45'
String Mill- 3.875" OD x 3.75'
DBL Pin sub- 3.125" OD x .66
Taper mill- 3.125" OD x 2.30'
58 Degrees at 8721' top of PH-6
String mill at 8740'
We think we had a piece of casing patch jammed in blades of string mill.
Loose carbide from 5-CC shoe runs making from 1-6 inches each run.
Fluid: Produced water & Xanvis L sweeps.
2.5 Power Swivel
Millennium work over unit working 24 hrs.
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