

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

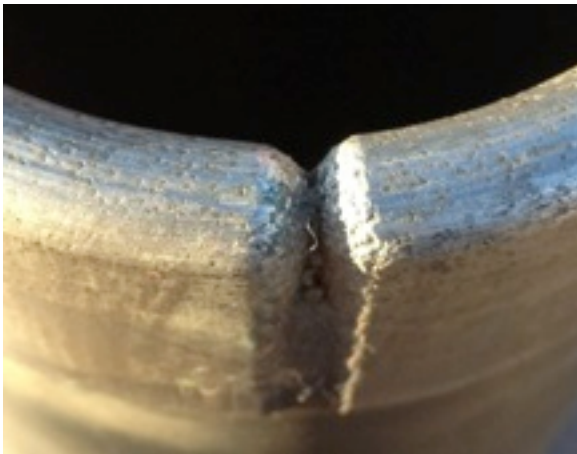
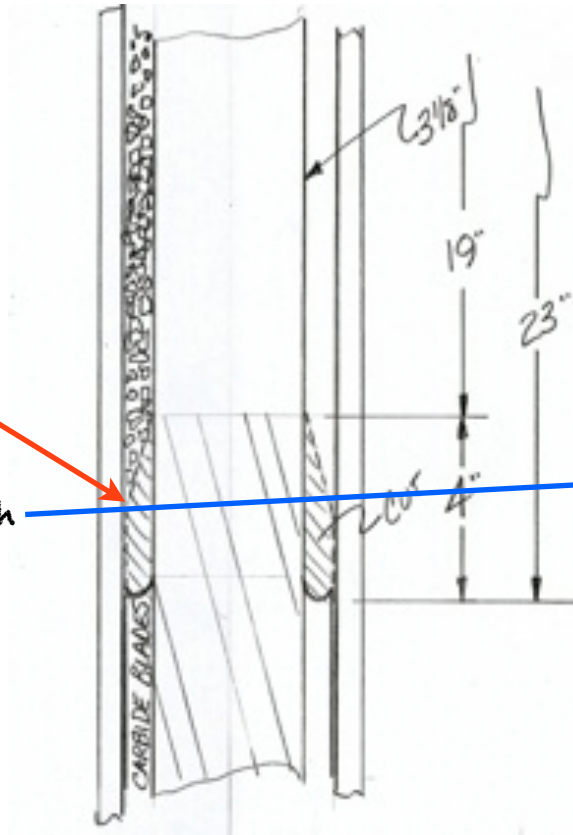
Diamond-Impreg

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'

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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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