

BIG EDDY UNIT # 118

1st TAPER CASING PARAMETERS

SIZE (inches) 5.500
WEIGHT (lbs/ft) 14.00
GRADE K-55
LONG OR SHORT THREAD ST&C
INT. DIAMETER (inches) 5.012
DRIFT DIAMETER (inches) 4.987
TENSION (lbs) 172,000
COLLAPSE (psi) 3,120
BURST (psi) 4,270

TOTAL DEPTH 5,550

TOP DEPTH OF TAPER(ft) 0
BOTTOM DEPTH OF TAPER(ft) 5,800
MAX FLUID GRADIENT (ppg) 10
AXIAL LOAD FACTOR "X" 0.077
AXIAL LOAD FACTOR "Y" 0.977
ANTICIPATED PSI @ SETTING 3010.2

NET FOOTAGE = 5800

TENSION-1.5 design factor 1.923
TENSION/(DEPTH*WEIGHT)
COLLAPSE-1.0 design factor 1.013
(COLLAPSE * Y)/(PSI/FT * DEPTH)
BURST-1.0 design factor 1.278
BURST/((.75*BHP+2.5 #/gal)

DESIGN EXCEEDS SAFTEY FACTOR REQUIREMENT

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2nd TAPER CASING PARAMETERS

SIZE (inches) 5.500
WEIGHT (lbs/ft) 15.50
GRADE K-55
LONG OR SHORT THREAD LT&C
INT. DIAMETER (inches) 4.950
DRIFT DIAMETER (inches) 4.825
TENSION (lbs) 239,000
COLLAPSE (psi) 4,040
BURST (psi) 4,810

TOP DEPTH OF TAPER(ft) 5800
BOTTOM DEPTH OF TAPER(ft) 5650
MAX FLUID GRADIENT (ppg) 10
AXIAL LOAD FACTOR "X" 0.000
AXIAL LOAD FACTOR "Y" 1.000
ANTICIPATED PSI @ SETTING 3451.4

NET FOOTAGE = 850

TENSION-1.5 design factor 18.140
TENSION/(DEPTH*WEIGHT)
COLLAPSE-1.0 design factor 1.171
(COLLAPSE * Y)/(PSI/FT * DEPTH)
BURST-1.0 design factor 1.394
BURST/((.75*BHP+2.5 #/gal)

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