A Treated So. Yel. Pine
32.34 Mid. Cir. (field measure)
17.4 cu. ft. x 53#/cu. ft. = 922.2 lbs

$$P = \frac{3wh}{s+0.35} \text{ X } \frac{w}{w+m}$$

$$= \frac{(3)(2.49)(5)}{s+0.35} x \frac{2.49}{3.31}$$

$$= \frac{28.01}{s+0.35} Straightpiles$$

W= $4990 \div 2000 = 2.49 tons$

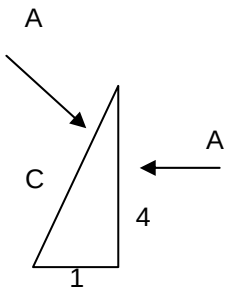
M= $\frac{922.2+730}{2000} = 0.82 tons$

$W + M = 2.49 + 0.82 = 3.31 tons$

H=5

S=Avg Pen/5 blows

B



sine A = $\frac{1}{4.1231} = .24254$

Batter Factor (1:4) = cosine A – (f sine A) f=0.10
= 0.97014 – (0.10)(0.24254)
= 0.94589

C

$$p = \frac{28.01}{s+0.35} x 0.94589$$

$$= \frac{26.49}{s+0.35} Batter 1:4$$

D Required bearing 28 Tons Batter 1:4 s=?

$$28 = \frac{26.49}{s+0.35}$$

$$s + 0.35 = \frac{26.49}{28}$$

$$s = \frac{26.49}{28} - 0.35 = 0.596 perblow x 5 = 2.98"5 blows$$

Note: This procedure shows maximum penetration to obtain plan formula bearing. Use actual penetration in the formula to get formula bearing.
Only data in A & C above, if applicable, needs to be shown on the back side of the Log of Piling.