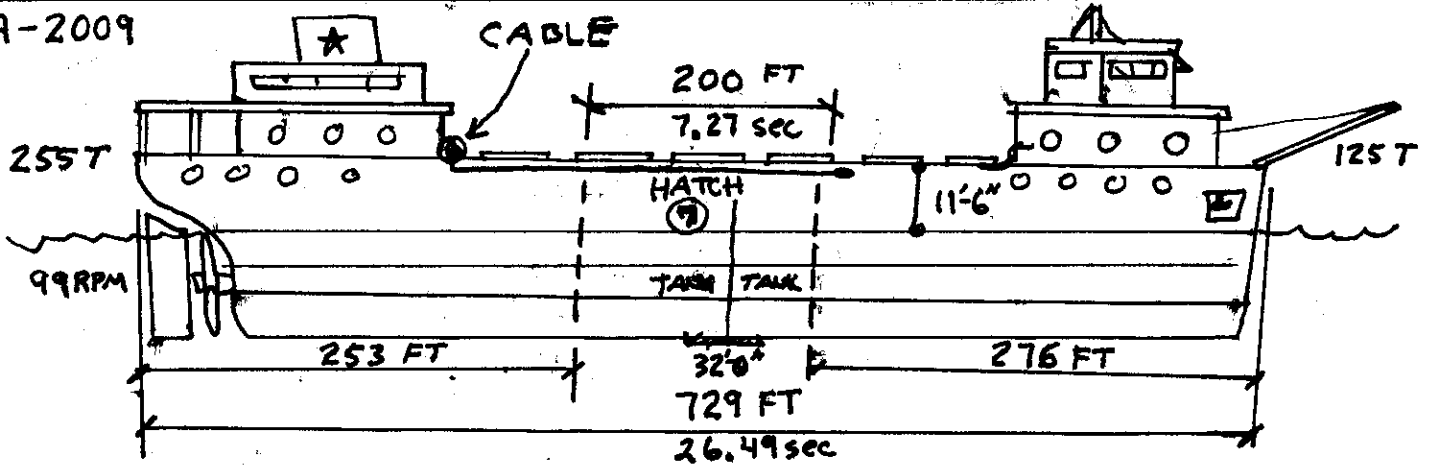


CRA-2009



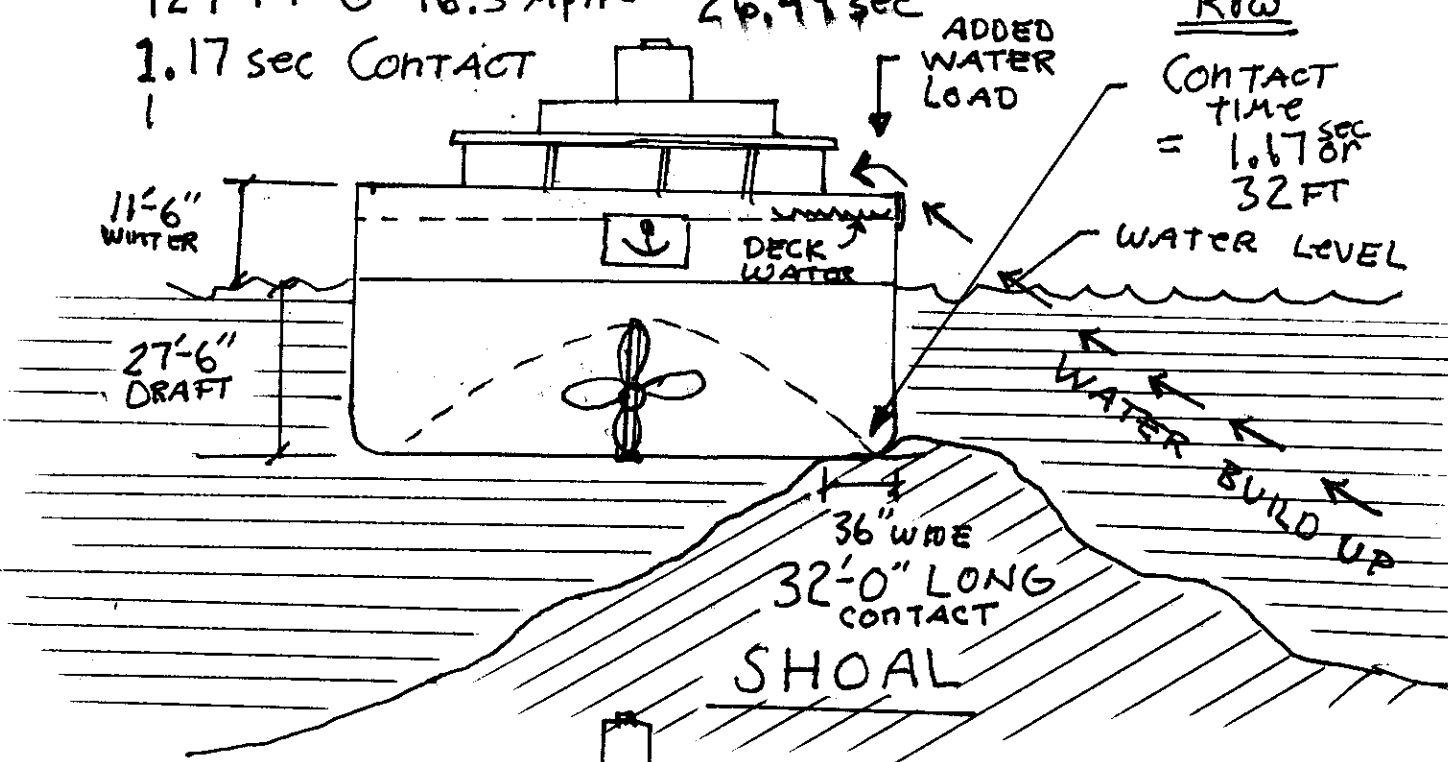
99 RPM = 16.3 mph FULL SPEED
 AT 16.3 mph = 27.52 FT per sec.
 200 FT AT BREAKS = 7.27 sec
 729 FT @ 16.3 mph = 26.49 sec
 1.17 sec CONTACT

STATUTE MILES

TWO VENTS
 TWO TANKS
 DAMAGE

Row

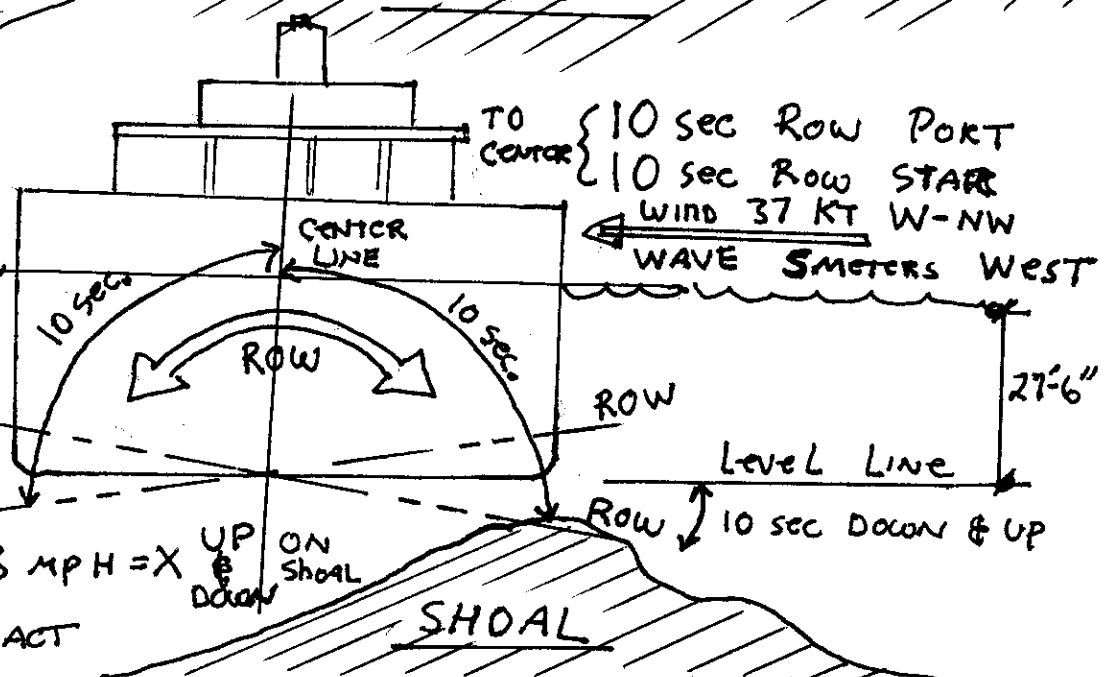
CONTACT TIME = 1.17 sec
 = 32 FT



Pitch & Row

32 FT CONTACT AREA

1.17 sec MIN.



ROW
 ANGLE FROM TUE 10 sec
 20 sec

TO CENTER { 10 sec Row PORT
 10 sec Row STARBOARD
 WIND 37 KT W-NW
 WAVE 5 METERS WEST

10 sec @ 16.3 mph = X
 = 32 FT CONTACT AREA

SHOAL