

FV DESTINATION
POST SINKING STABILITY INVESTIGATIVE ANALYSIS

Assumed Departure Loading Condition at the Time of Sinking

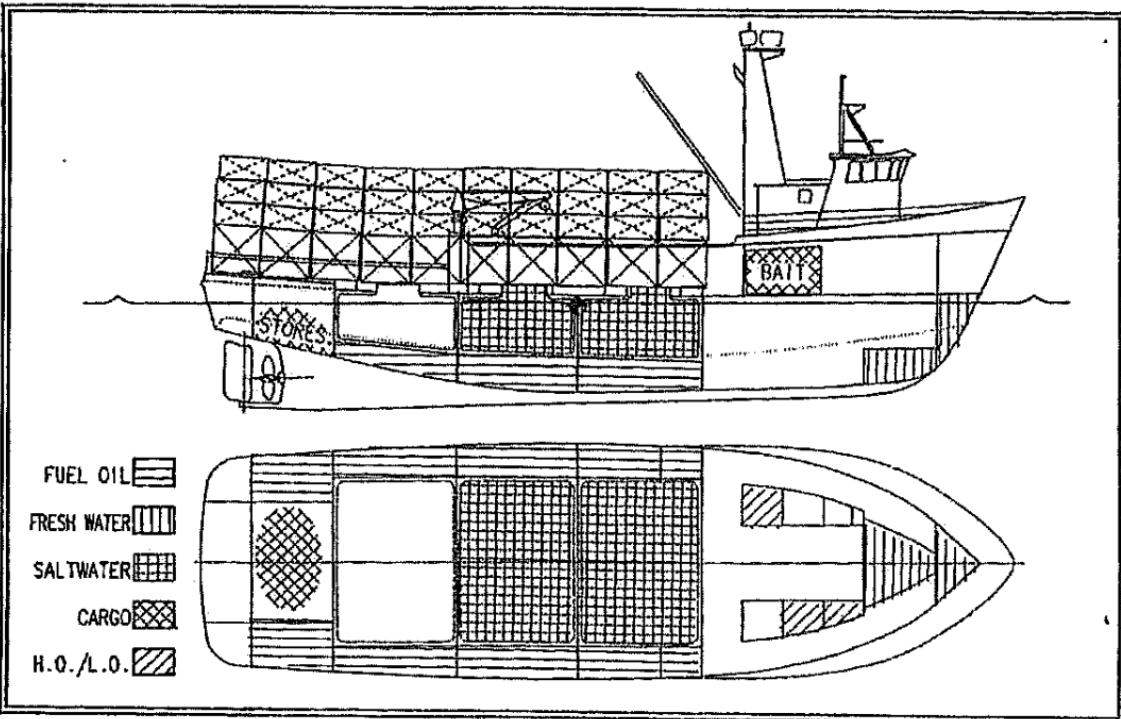
The loaded condition of the vessel at the time of the sinking was similar to Condition No. 3, Winter conditions, with No. 1 and 2 holds tanked as indicated in Stability Information of enclosure (1). Substantiated through testimony or evidence, difference and variances of the loaded condition as compared to Stability Information No. 3 are provided in the table below:

	Condition No. 3, Winter	Vessel's Loaded Condition
Pots	224 at 5 tiers	200 at 5 tiers
Pot Weight	700 (incl line and gear)	840 (with dry line and gear) 880 (with wet line and gear)
Bait	6,048 lbs (2.70 L.T.)- Freezer	6,048 lbs (2.70 L.T.)- Freezer 7,578 lbs (3.38 L.T.) - mid-ship, top of pots 3,000 lbs (1.3 L.T.) – blue tote, top of pots 3,080 lbs (1.37 L. T.) –aft of house, main deck.
Icing	1.3" horizontal, 0.65" vertical, 11.61 L.T. total on vsl and pots	Unknown. Provide a range from 1 – 12" at 1" intervals, with a thickness of 1.3" which corresponds to 6.14 lbs per square foot.

* CRAB POTS AND OTHER DECK LOADS					
The following table gives the maximum number of crab pots that can be safely carried under a variety of conditions:					
Cond No.	Holds Tanked	Dry HoId	Wtr & Fuel	Pots Allowed Summer	Pots Allowed Winter
	1	11K #	100%	249 - 5 tiers	249 - 5 tiers
2	2	11K #	100%	208 - 4 tiers	208 - 4 tiers
	3	11K #	100%	200 - 4 tiers	167 - 3 tiers
3	1 & 2	11K #	100%	249 - 5 tiers	224 - 5 tiers
	1 & 3	11K #	100%	200 - 4 tiers	146 - 3 tiers
	2 & 3	11K #	100%	146 - 3 tiers	95 - 2 tiers
4	1, 2, & 3	11K #	100%	126 - 2 tiers	95 - 2 tiers
5	1, 2, & 3	11K #	10%	208 - 4 tiers	200 - 4 tiers
6	None	11K #	10%	212 - 5 tiers	200 - 4 tiers

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Condition No. 3 Full Consumables - Full Pot Load - Two Holds Tanked



Particulars Of Loading

No. 1 F.O. Day Tank (P&S)	98%
No. 2 F.O. Wing Tank (P&S)	98%
No. 3 F.O. Wing Tank (P&S)	98%
No. 4 F.O. Wing Tank (P&S)	98%
No. 5 F.O. Wing Tank (P&S)	98%
No. 6 F.O. D.B. Tank (P&S)	98%
Forepeak F.W. Tank	100%
F.W. D.B. Tank	100%
No. 1 RSW HOLD	100%
No. 2 RSW HOLD	100%
No. 3 RSW HOLD	Empty
Dry Stores	Normal Oper.
Crew & Effects	Normal Oper.
Bait in freezer	100%
1st Tier Pots	85
2nd Tier Pots	41
3rd Tier Pots	41
4th Tier Pots	33
Total Pots	200

Trim:

Trim	1.28 ft by the Head (0.81 deg.)
Fwd draft	12.17 ft (to keel)
Mid draft	14.35 ft (to baseline)
Aft draft	14.48 ft (to keel)
Mid Freeboard	1.15 ft
Downflood Angle:	>60°

Intact Righting Energy Criteria (46 CFR 28.570):

Initial Metacentric Height: 5.97	Pass✓
Righting Arm (GZ) at 30° or more: 1.18	Pass✓
Angle of Max. Righting Arm: 28°	Pass✓
Righting Energy 0 to 40° 36.4	Pass✓
Righting Energy 0 to 30° 25.4	Pass✓
Righting Energy 30 to 40° 11.0	Pass✓
Range of Stability: >60°	Pass✓

Severe Wind & Roll (46 CFR 28.575): - Open Waters

Angle of Equilibrium: 1.4°	Pass✓
Residual Righting Energy: 27.2	Pass✓

Total Weight: 577.57 L.T. VCG:13.98 LCG: -0.13
 Total Free Surface of All Slack Tanks = 32.06
 (Effect of Free Surface Raises VCG by 0.7 inches)

- Comments:**
- Maximum pot limits for this loading condition are as follows:
 Holds No. 1 & 2 Full 249 pots in 5 tiers, Summer..... 224 pots in 5 tiers, Winter
 Holds No. 1 & 3 Full 200 pots in 4 tiers, Summer..... 146 pots in 3 tiers, Winter
 Holds No. 2 & 3 Full 146 pots in 3 tiers, Summer..... 95 pots in 2 tiers, Winter

