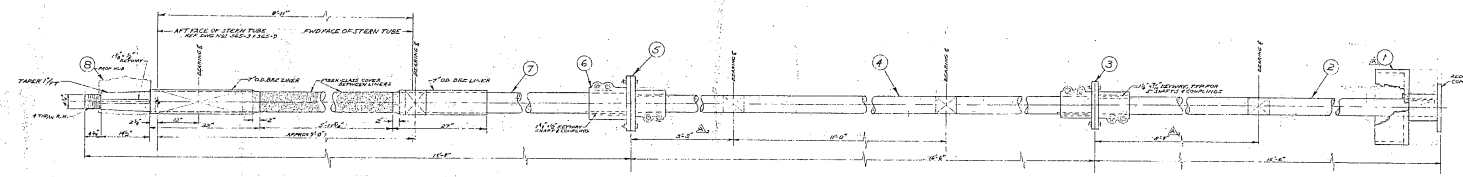

Exhibit 199
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PROPULSION MACHINERY	BRAKE-DRUM & PROPELLER			SHAFTS			DIMENSIONS FOR "HALF-COUPLINGS"											
	NO.	DESCRIPTION	W/ 16 LB	WT. 1 PIN	NO.	DESCRIPTION	GENERAL	NO.	QUANTITY	TYPE	WEIGHT ABOVE	BORE SIZE	DIA FLANGE	DIA BODY	LENGTH	FLANGE TO LENGTH	FLANGE TO CENTER	DIA BOLTS	FLANGE BOLTS	HUB FLANGE	KEYSEAT
PROPULSION ENGINE: DEUTZ BF 16 M 716	①	BRAKE DRUM FOR MATHERS MOD 5B2-3400 SHAFT BRK	275	177	②	5" DIA LINE SHAFT	ALL SHAFTS ARE 1018 STEEL, TURNED & POLISHED - MACHINED AS SHOWN	②	2	5" STD	140EA	5"	13⅝"	7 13/16"	10"	1⅝"	11⅝"	6 1/8"	6-1"	2-1"	1⅛" x 5/16"
REDUCTION/REVERSE GEAR: TWIN DISC MOD 540 (D8R82-A) 5.17 : 1 RATIO	⑧	PROPELLER - COOLIDGE - 14" x 55" 3-BLADE "ATLANTIC" BRZ	1102	2088	④	5" DIA LINE SHAFT		③	1	5" TO MATE W/ 6"	160	5"	16¾"	7 13/16"	10"	1⅝"	13¼"	7 13/16"	6-1⅛"	2-1⅛"	1⅛" x 5/16"
					⑦	6" DIA TAILSHAFT W/ BRZ LINERS & FIBERGLASS COVER		⑥	1	6" STD	230	6"	16¾"	7 13/16"	12"	1⅛"	13¼"	7 13/16"	6-1⅛"	2-1⅛"	1⅛" x ½"

△	1. REVISED SHAFT BRAKE LOCATION 2. REVISED BEARING LOCATION	C.A.P.	11/1/74
SYM	REVISIONS	BY	DATE

B. F. JENSEN & ASSOCIATES
NAVAL ARCHITECTS — MARINE ENGINEERS
101 SALMON BAY OFFICE BLDG.
4218 21st AVE. WEST
SEATTLE, WASHINGTON 98199

92 FT. STEEL FISHING VESSEL

PROPULSION SHAFTING

CHKD.		DATE: 7/31/74	
SCALE: 1"=1'-0"		DWG. NO. 365-14	REV.
DRAWN: C.A.P.			