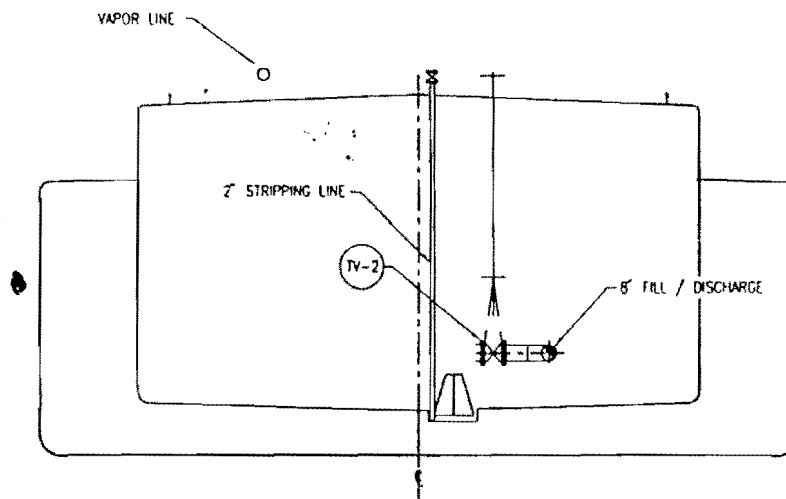
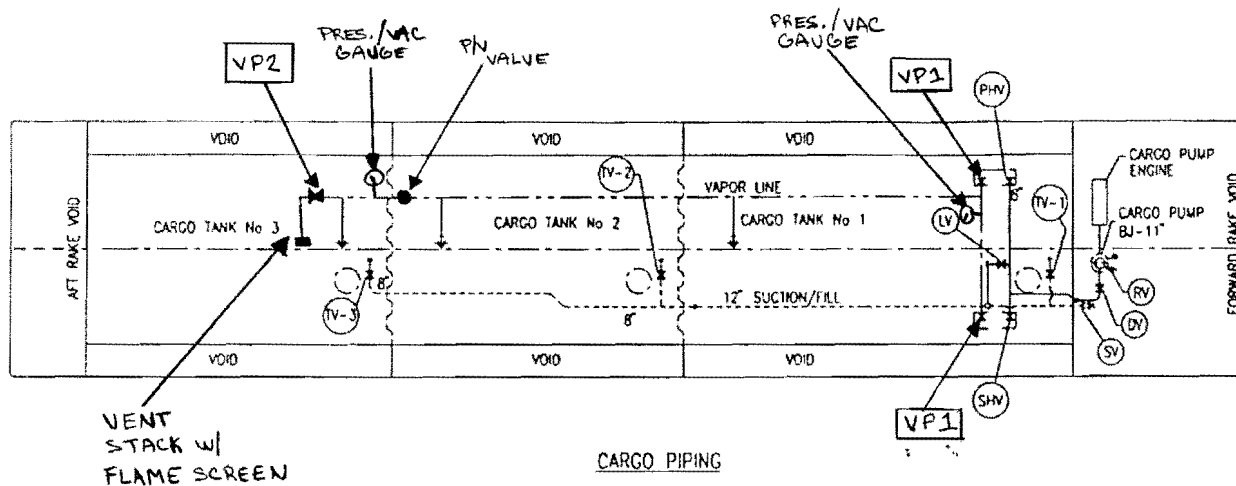




CAPACITIES - SHORT TONS @ VARIOUS DRAFTS

DRAFT FT.	TOTAL ST.	TANK-1 P/S ST.	TANK-2 P/S ST.	TANK-3 P/S ST.
2'-6"	77.96	25.73	25.73	26.51
3'-0"	178.84	59.02	59.02	60.81
3'-6"	280.25	92.48	92.48	95.28
4'-0"	382.17	126.11	126.11	129.94
4'-6"	484.60	159.92	159.92	164.76
5'-0"	587.56	193.90	193.90	199.77
5'-6"	691.05	228.05	228.05	234.96
6'-0"	795.04	262.36	262.36	270.31
6'-6"	898.58	296.86	296.86	305.85
7'-0"	1,004.61	331.52	331.52	341.57
7'-6"	1,109.83	366.24	366.24	377.34
8'-0"	1,215.58	401.14	401.14	413.30
8'-6"	1,321.80	436.19	436.19	449.41
9'-0"	1,428.49	471.40	471.40	485.69
9'-6"	1,535.67	506.77	506.77	522.13
10'-0"	1,643.31	542.29	542.29	558.77
10'-6"	1,751.43	577.97	577.97	595.49
11'-0"	1,860.03	613.81	613.81	632.41

MAX. CAPACITY - BBL (FULL)

10,692.4	3,528.5	3,528.5	3,635.4
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MAX. CAPACITY - CU. FT. (95%)

57,035.9	18,821.9	18,821.9	19,392.1
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SPECIAL FEATURES

- 1) COMMON VAPOR HEADER
- 2) CARGO PUMP: 11" BYRON JACKSON
- 3) PUMP ENGINE: GM 6-71
- 4) TANKS HAVE STEAM HEATING COILS
- 5) COMMON CARGO HEADER

VALVE IDENTIFICATION

- TV - TANK VALVES (NUMBERED PER TK)
 DV - DISCHARGE VALVE
 RV - RELIEF VALVE
 LV - LOAD VALVE
 PHV - PORT HEADER VALVE
 SHV - STEADY HEADER VALVE
 SV - SUCTION VALVE

OPERATING INSTRUCTIONS

- TO LOAD:
 OPEN: TV-1, TV-2, TV-3
 OPEN: LV
 OPEN: SHV OR PHV TO DOCK
 CLOSE: DV
 CLOSE: SV
- TO DISCHARGE:
 OPEN: TV-1, TV-2, TV-3
 OPEN: SV
 OPEN: DV
 OPEN: SHV OR PHV TO DOCK
 CLOSE: LV

VAPOR SYSTEM

- VP1 - VAPOR
HEADER VALVE
- VP2 - VENT
STACK VALVE

BARGE INFO.

HULL NO.: CBC 113
 NAME: 1999
 HULL TYPE: DOUBLE BOTTOM
 CARGO GRADE: A & LOWER

S&B Schuller & Bion, Inc.
HOUSTON, TEXAS

FirstWave
NEWPORT NEWS BUILDING

CARGO BARGE COMPANY, INC.
200' x 35' x 12'-6"

CBC 113
PIPING DIAGRAM

DATE: 10-10-2010
BY: [signature]
CHECKED: [signature]