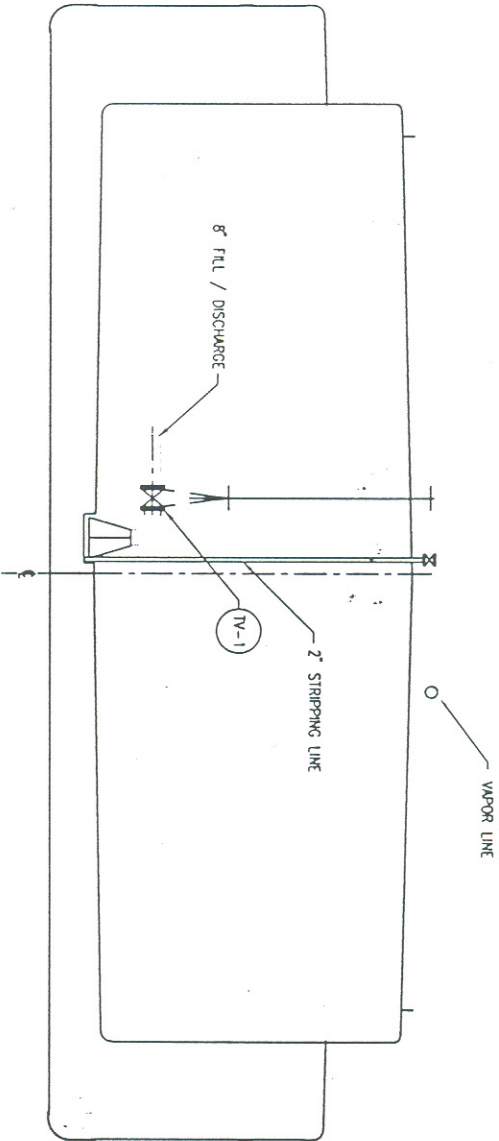


CARGO PIPING



BELOW DECK PIPING

FORWARD RAKE VOID

CAPACITIES - SHORT TONS • VARIOUS DEBITS

DEBIT	TANK-1	TANK-2	TANK-2	TANK-3
P/S	STBD	STBD	P/S	P/S
1-1	35.99	12.78	5.78	11.57
2-1	152.12	52.68	24.86	49.73
3-1	293.46	101.63	47.95	95.93
4-1	436.18	151.05	71.27	142.59
5-1	580.29	200.96	94.82	189.70
6-1	725.77	251.33	118.59	237.25
7-1	872.64	302.19	142.59	285.76
8-1	1,020.87	353.53	166.81	333.72
9-1	1,170.49	405.34	191.28	382.63
10-1	1,321.49	457.63	215.93	431.99
11-1	1,474.84	510.39	240.83	481.80
12-1	1,631.56	563.60	265.93	532.03
13-1	1,791.60	617.32	291.28	582.72
14-1	1,954.94	671.48	316.92	633.84
15-1	2,121.60	727.12	342.82	685.44
16-1	2,291.60	784.25	368.93	737.49
17-1	2,465.00	842.87	394.87	789.97
18-1	2,641.86	892.92	421.32	844.90
19-1	2,822.13	949.46	448.00	895.27

MAX CAPACITY - BRG (TALL)  
 18,680.59 | 5,776.33 | 2,776.03 | 2,776.03 | 5,453.11  
 MAX CAPACITY - CU FT. (95%)  
 68,944.78 | 20,811.80 | 14,542.47 | 14,542.47 | 29,003.00

SPECIAL FEATURES

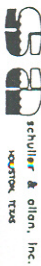
- COMMON VAPOR HEADERS
- CARGO PUMP: 11" BRONX JACKSON
- PUMP ENGINE: CU 6-71
- COMMON CARGO HEADER

VALVE IDENTIFICATION

- SV - SECTION VALVE
- DV - DISCHARGE VALVE
- LV - LOAD VALVE
- TV-1 - TANK VALVE, TANK / 1
- TV-2 - TANK VALVE, TANK / 2
- TV-3 - TANK VALVE, TANK / 3
- RV - RELIEF VALVE
- PW - PORT HEADER VALVE
- SM - STBD HEADER VALVE

OPERATING INSTRUCTIONS

- 10 LOAD:  
 OPER: TV-1, PV-2, SV-2, TV-3  
 OPER: LV  
 OPER: SM OR PW 10 DOCK  
 CLOSE: SV  
 CLOSE: DV
- 10 DISCHARGE:  
 OPER: TV-1, PV-2, SV-2, TV-3  
 OPER: SV  
 OPER: DV  
 OPER: SM OR PW 10 DOCK  
 CLOSE: LV



NEWPORT SHIPBUILDING  
 CURT BORG COMPANY, INC.  
 200 S 5th St - 17th - 6'

BARGE INFO.  
 HULL NO.:  
 NAME: CBO 221  
 YEAR BUILT: 1999  
 HULL TYPE: DOUBLE BOTTOM  
 CARGO GRADE: A & LOWER

NO.	DATE	BY	REVISION
1	2011-05-04	DMG	1