

CARGO LOADING:

- A OPEN VALVES NO.:5,6,7,8,9,10,11 & 12
- B CLOSE VALVES NO.:1,2
- C VENT TANKS

CARGO DISCHARGE:

- A OPEN VALVES NO.:1,2,6,7,8,9,10,11, & 12
- B CLOSE VALVES NO.: 5
- C VENT TANKS

CARGO SYSTEM VALVES

- 1 PUMP SUCTION VALVE
- 2 PUMP DISCHARGE VALVE
- 3 PUMP DISCHARGE CHECK VALVE
- 4 PRESSURE RELIEF VALVE
- 5 CARGO FILL VALVE
- 6 PORT & STBD HEADER VALVES
- 7 TK 1 FILL / SUCTION VALVE
- 8 TK 2 FILL / SUCTION VALVE
- 9 TK 3 FILL / SUCTION VALVE
- 10 TK 1 FILL / SUCTION VALVE
- 11 TK 2 FILL / SUCTION VALVE
- 12 TK 3 FILL / SUCTION VALVE
- 13 #1 STRIPPING VALVE
- 14 #2 STRIPPING VALVE
- 15 #3 STRIPPING VALVE
- 16 DEEPWELL CAN STRIPPING VALVE

TANK VOL. 100% FULL

TANK	GAL.	BBL.	CU. FT.
1	151506	3607.28	20253.41
2	190912	4545.52	25521.22
3	170306	4054.90	22766.60
TOTAL	512724	12207.70	68541.23
		98% FULL	
		11963.55	

MAX CAPACITY - BBL (100%)			
12207.70	3607.28	4545.52	4054.90
TOTAL	CT1	CT2	CT3

MAX CAPACITY - CU. FT. (100%)			
68541.23	20253.41	25521.22	22766.60
TOTAL	CT1	CT2	CT3

PLAN

CAPACITIES—SHORT TONS AT VARIOUS DRAFTS				
TANK NUMBER				
DRAFT (FT)	TOTAL (S.T.)	1 (S.T.)	2 (S.T.)	3 (S.T.)
6.00	924.60	282.00	328.90	313.70
6.25	979.20	299.00	348.70	331.50
6.50	1033.90	316.00	368.40	349.50
6.75	1088.50	333.00	388.20	367.30
7.00	1143.10	350.00	408.00	385.10
7.25	1197.70	367.10	427.80	402.80
7.50	1252.30	384.10	447.70	420.70
7.75	1307.00	401.10	467.40	438.50
8.00	1361.60	418.10	487.20	456.30
8.25	1416.20	435.10	507.00	474.10
8.50	1470.80	452.20	526.80	491.80
8.75	1525.50	469.20	546.60	509.70
9.00	1580.10	486.20	566.40	527.50
9.25	1634.70	503.20	586.10	545.40
9.4167	1671.00	514.50	599.30	557.20
9.50	1689.17	520.20	605.90	563.07
9.75	1744.00	537.30	625.70	581.00
10.00	1798.60	554.30	645.50	598.80
10.25	1853.20	571.30	665.30	616.60
10.50	1907.80	588.30	685.10	634.40

SPECIAL FEATURES

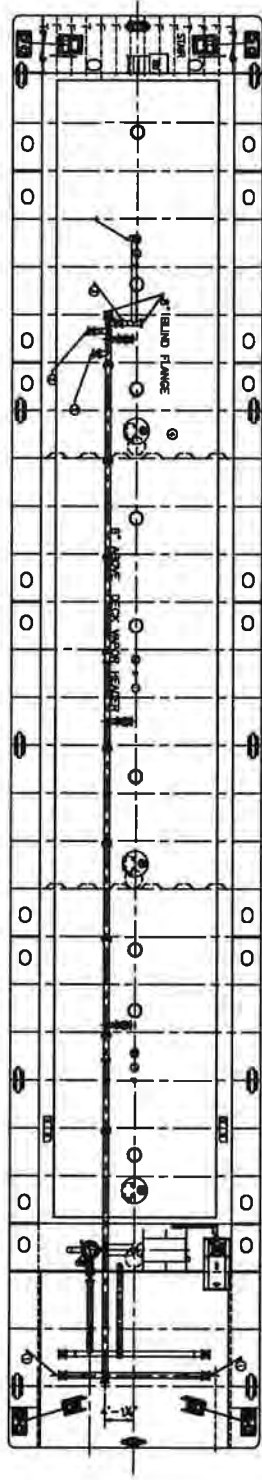
- 1. CARGO PUMP: BYRON JACKSON MODEL 11LS14GH-3 AMARILLO GEAR S300 2100 GPM, 253' TDH @ 192 H.P.
- 2. CARGO PUMP ENGINE: MECO/FPT DIESEL MODEL PU-1173

BARGE INFORMATION

YEAR BUILT: 2018
 HULL TYPE: I
 CARGO GRADE: A & LOWER PRODUCTS PER SUBCHAPTER "D" AND LIMITED SUBCHAPTER "O" PRODUCTS. WHEN IN TOW WITH A RAKE BARGE

CANAL BARGE COMPANY	
NAME	HULL #
CBC 1400	9780
CBC 1401	9781
CBC 1402	9782
CBC 1403	9783
CBC 1404	9784
CBC 1405	9785
CBC 1408	9786
CBC 1407	9787
CBC 1408	9788
CBC 1409	9789

REV	DATE	DESCRIPTION	DATE BY
REVISIONS			
MARINE SOLUTIONS, INC.			
<small> MARINE SOLUTIONS, INC. 2007-01" x 35'-0" x 17'-6" DOUBLE SKIN TANK BARGE CARGO PIPING DIAGRAM (SOUTHWEST SHIPYARD) </small>			
SCALE: 3/8" = 1'-0"	DATE: 04/21/17	DWG NO.:	
DRAWN BY: MS	CHKD BY:	APP'D BY:	14020414-1
SHEET NO.:	CONTRACT NO.:	SHEET 1 OF 1	
		REV. 0	



ITEM NO.	DESCRIPTION	QTY
1	8" BLIND FLANGE	1
2	6" BERGAN PV VALVE SET	2
3	1.5" # PSI / 0.5" # VACUUM	1
4	8" ISOLATION VALVE	1
5	VENT STACK	1

- VAPOR SYSTEM VALVES:
- 1- 8" HEADER VALVES
 - 2- 6" BERGAN PV VALVE SET
 - 1.5" # PSI / 0.5" # VACUUM
 - 3- 8" ISOLATION VALVE
 - 4- VENT STACK

PLAN

NO.	DESCRIPTION	DATE	BY
1	CONCEPT / FIELD REPRESENTATIVE		
2	REVISED / FIELD REPRESENTATIVE		
3	DESIGNED / DESIGNED		

MARINE SOLUTIONS, INC. 2007-CO-WA-CO-12-C-01-DOMESTIC-SHIP TANK ENDORSEMENT (SOUTHWEST SHIPPING, L.P.) VAPOR PIPING		DATE: 10/10/07 TIME: 10:00 AM CONTRACT NO.: 07-00000001 SHEET NO.: 1 OF 1 DATE: 10/10/07
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