
APPENDIX A
***MICHAEL UHL* SPECIFICATIONS**

M/V MICHAEL UHL
M/V POINT ESTERO
M/V SURVEYOR



MARITIME LOGISTICS
P.O. BOX 426 CRESTON CA, 93432
805-431-7393

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M/V MICHAEL UHL

The M/V MICHAEL UHL was built by John Graham, in Bayou La Batre, Alabama in late 1972 as an Offshore Supply. She has a model bow, moderate sheer, hard chine, and transom stern with half round rub strakes at deck and mid level with tire fenders along each side and across her stern. Stoutly built, of 5/16 welded steel plate over 3"x 4" L, frames on approximate 27" centers. She is subdivided by 8, athwart bulkheads beginning with Focs'le forward followed by the potable water tank, then three fuel oil tank, followed by the engine room, ballast tank, lazarette and finally an aft ballast to trim the stern. Above the tankage between frames 9 & 26 is berthing for 14 persons, followed by the machinery room's frames 26 to 34. Her deck house sits well forward, with captains stateroom forward, then galley to port, two heads to starboard, followed by the lounge / dining area, then opening to clear decks aft and an A Frame mounted at the stern. She has recently undergone upgrades to her engines, re-issue of her COI for 30 Passengers + 4 crew in accordance with Subchapter T, and carries as stability letter.

Principal Characteristics

Length (oa):	100'	Length (wl):	95
Beam:	24	Draft:	7'1"
Load Deck:	48'x 20'	Deck Cargo:	59 Long tons (132,160#)
Passenger Cap:	30 max	Berths:	16 total (5 crew 11 riders)
Operating Crew:	4 to 5	COI Range:	Oceans
Total Ballast:	36923 gal	Fresh Water	12,000 gal
Fuel cap:	15475 gal.	Range:	5000 Miles
Cruising speed:	8.5 knots	Max speed:	10 knots

Machinery

Main engine:	(2) Detroit Diesel, 60 series, Port rebuilt 2004 Stb, rebuilt 2005 Main engines are in compliance with California Air quality regulations
Main Horsepower	Electronically controlled to 400 hp. Ea, 800 hp total @1800 rpm.
Generators:	2ea, tier 2 Northern Lights 60kw John Deer powered gen's installed 5/2006
Transmissions	Twin Disc 514 - 4:1 reduction (Pt, rebuilt 11-01 Stb, rebuilt 8-05)
Air	2 Quincy, two stage compressors
Propellers:	2 each Stainless 4 blade 52" diameter x 44 pitch (new Nov, 2002)
Shafts:	4" stainless steel (stb. new 6-2001 / port rebuilt 1-2005)
Centrifuge	Alfa Laval - MAB 103 B (new 6 - 2002)
Hydraulics	70gpm pumps running off of each generator

Deck equipment

Crane Hydra Pro stiff arm HP 40/11T
A Frame Five ton max capacity
Assorted small deck winches and pullers available upon request

Safety and Navigation

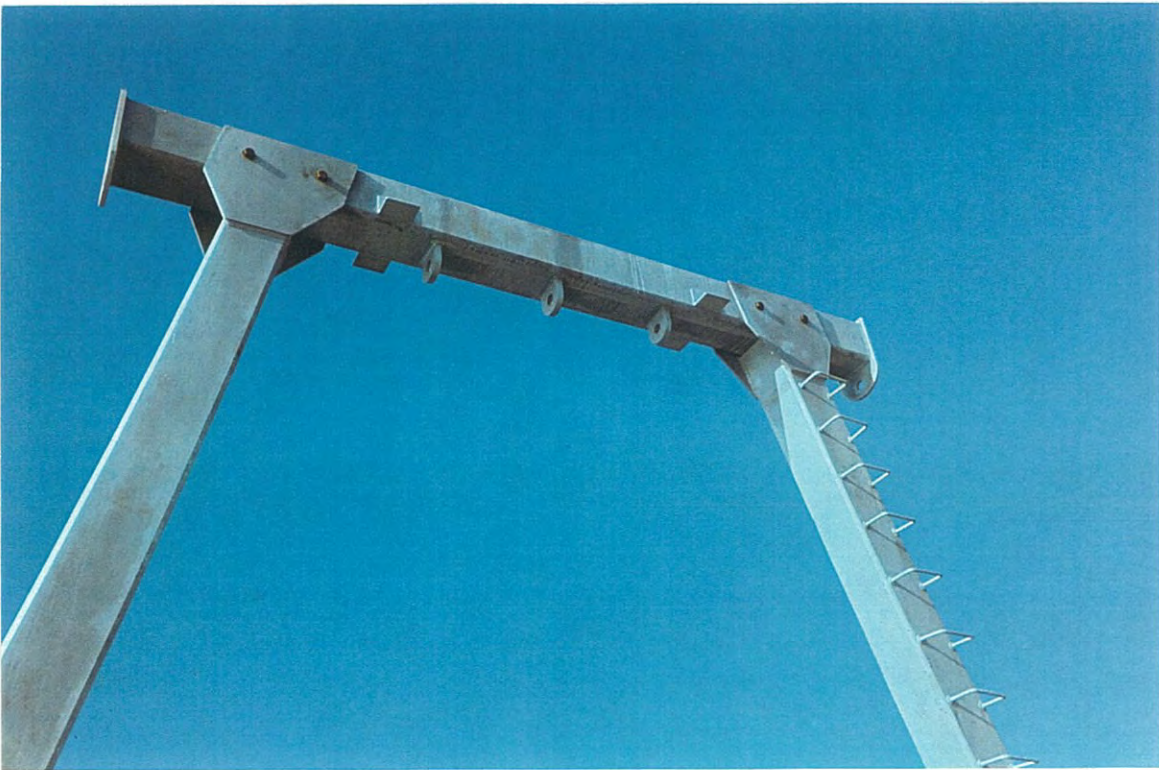
Radar: #1 Furuno FR7062 - 48 mile
SSB: # 1 ICOM IC - M 700 Pro #2 ICOM IC - M802
GPS: #1 Garman GPS Map 180 #2 Garman GPS Map 128
NAVTEX Nav 4 Navtex NMEA
Fathometer: Furuno FCV - 271
Autopilot Simrad AP50 installed winter 2006
VHF: #1 Icom - M302 with DSC #2 Standard Quest with ram mic.
Compasses Sperry / Ritchie # 6031318
Alarms General Engine High-water temp / Bilge / low oil / eng, temp

Elect, plotting Nobeltec Admiral with MapTech charts
Spot light Perko
EPIRB ACR Satellite 406
SART SEA 2ea - sea 20
Life raft 2each 25 man SOLAS - A
Life Rings 3 USCG approved 2 with lights
Life jackets: (37)
Life sling: 1 Life Sling brand

Miscellaneous

Sleeping berths:	(16)	Full Galley:	YES
TV:	(2)	DVD player:	(1)
Satellite Television antenna system installed	winter 2006		KVH G6
Shower:	(1)	Toilet:	(2)
Hot water	A.O. Smith 50 gallon electric new (6- 2002)		
Holding tank	Gray water 200 gallons		







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Length (oa): 100'

Load Deck: 48' x 20'

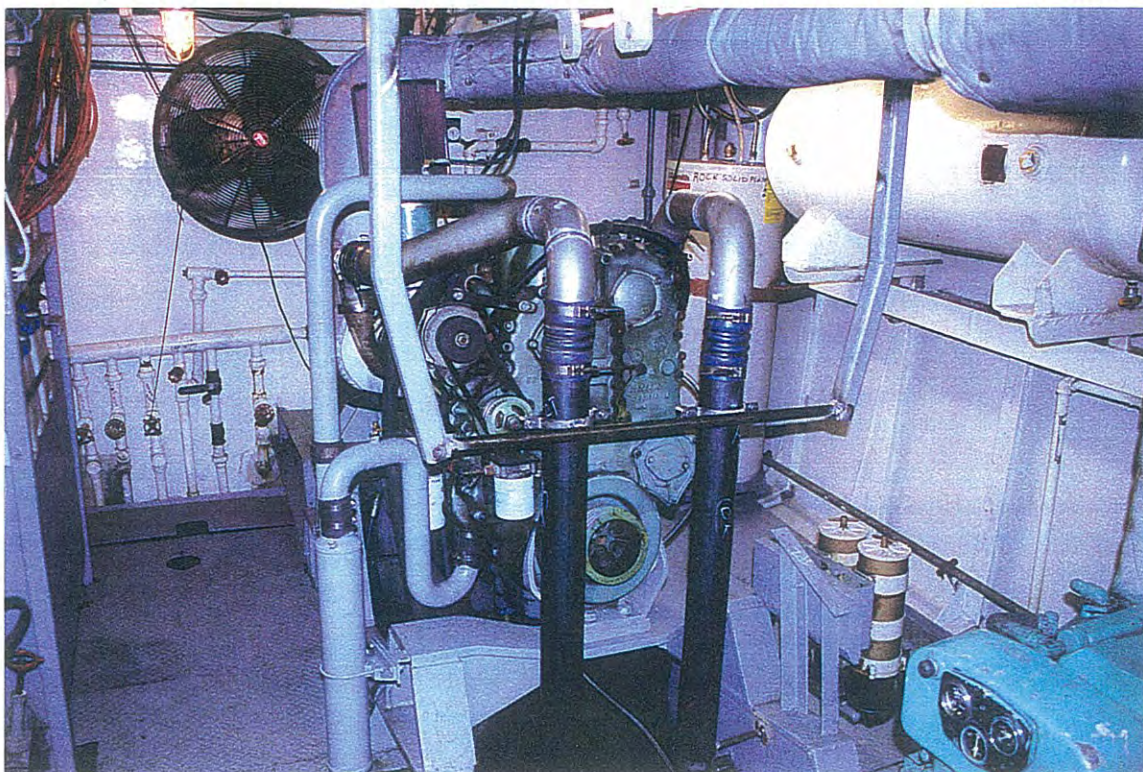
Cruising Speed: 10 knots

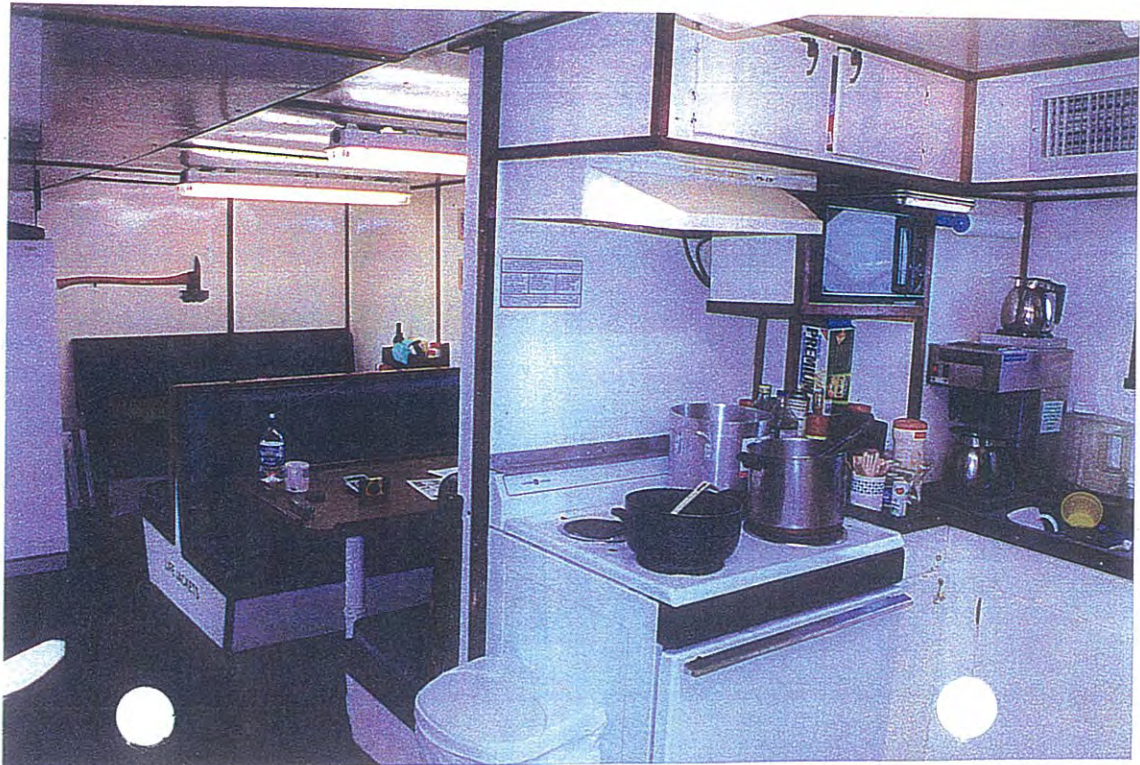
Deck Cargo: 59 long tons (132,160#)

Berths: 17 total (5 crew, 12 riders)

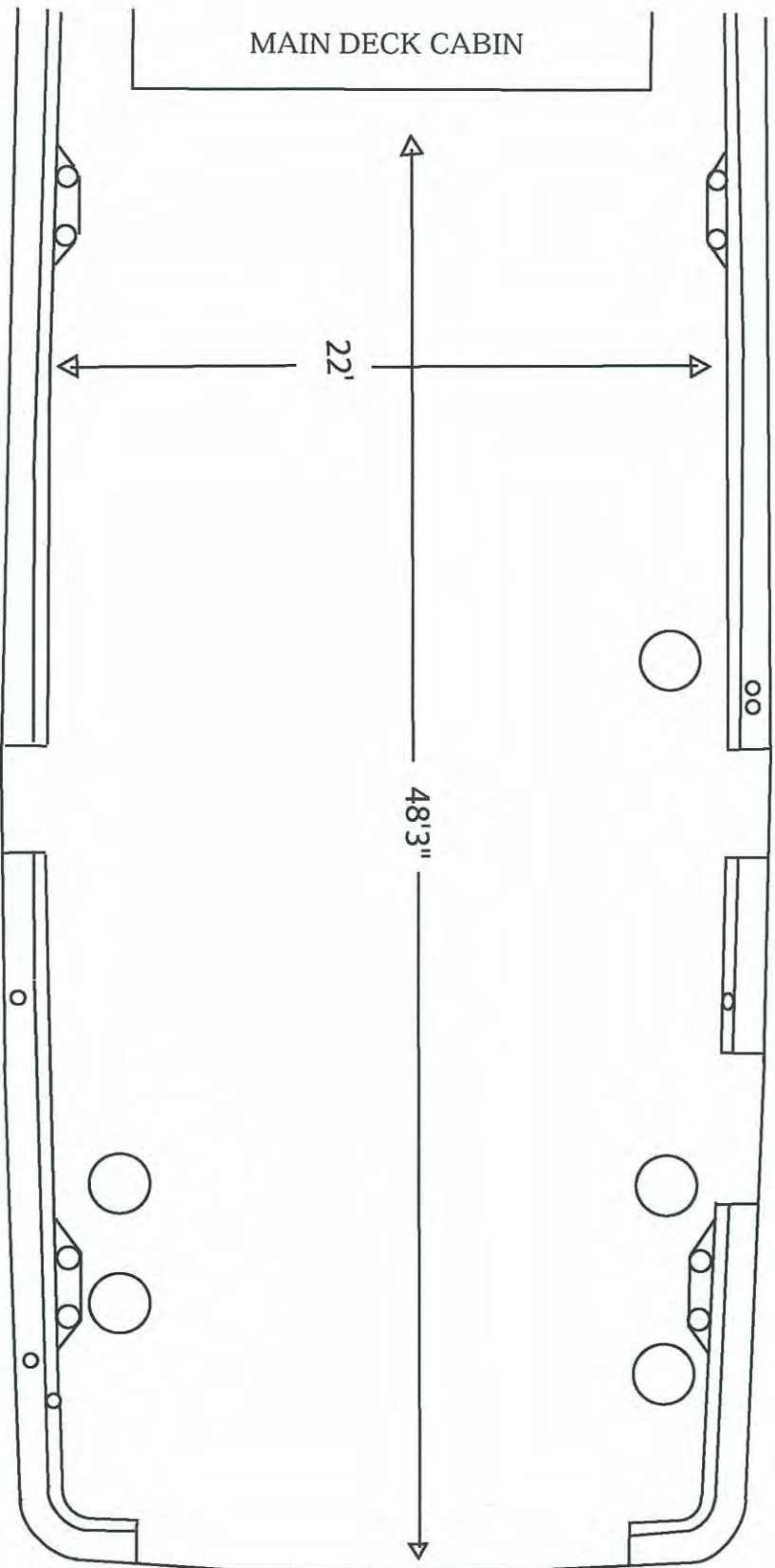
Fresh Water: 12,000 gal.

Range: 5000 miles



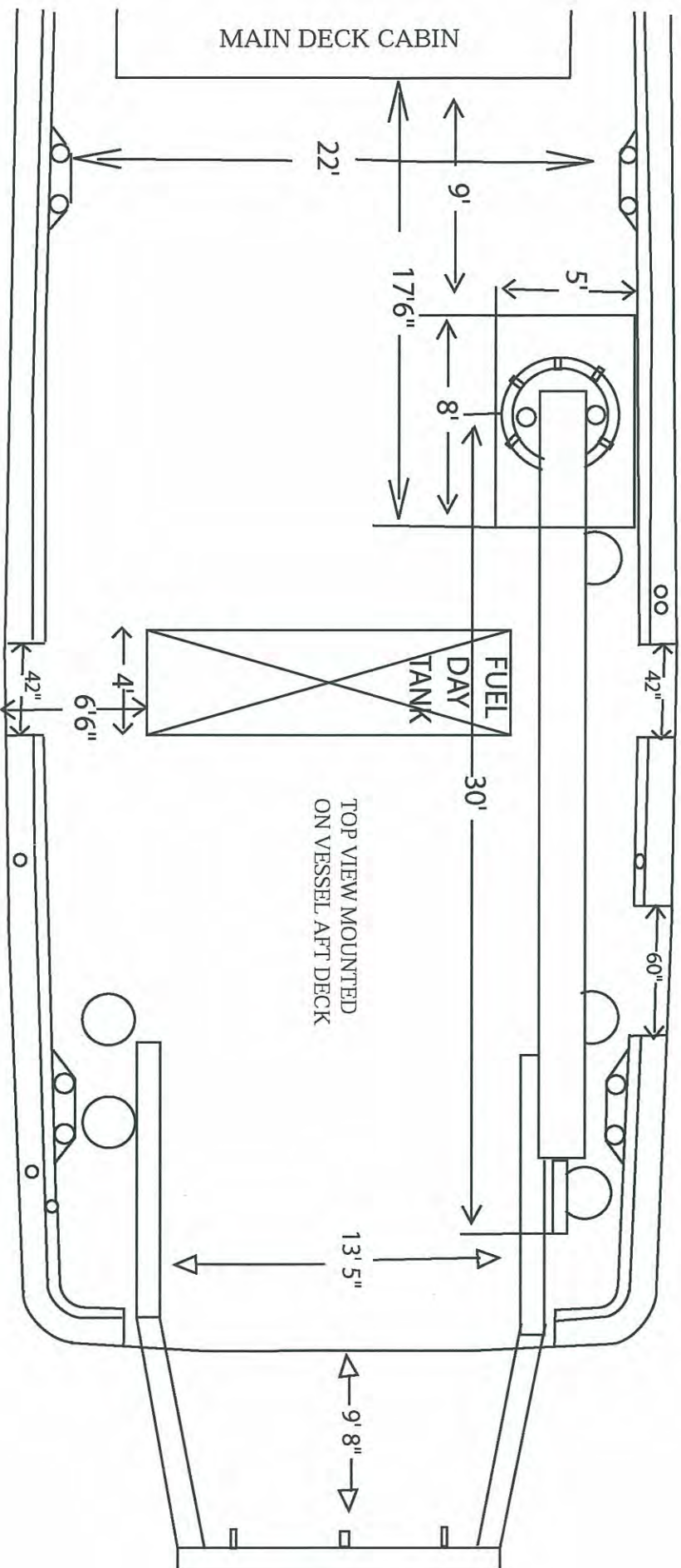


M/V MACHAEL UHL LOAD DECK CONFIGURATION



Note: deck to rail top is 30"

M/V MICHAEL UHL LOAD DECK CONFIGURATION



MICHAEL UHL A-FRAME CONFIGURATION
MAXIMUM INTENDED CAPACITY 5 TONS

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SIDE VIEW, A- FRAME MOUNTED ON VESSEL DECK

A-FRAME
PADEYE TO
DECK 18'2"

