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SparTEC. TlpTEC. SemiTEC.

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- Unbiased Concept Screening Studies
- Detail Engineering and Design
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- Engineer and Procure (EP)
- Construction and Installation (through JV parents)

Wet & Dry Tree Semis
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The Original DeepDraft Semi® FPU
Independence Hub
Thunder Hawk
- Proven to 8,000 ft. water depth*
- Optimized for SCR applications
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- 2 installed

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2011 Worldwide Survey of Semi-FPSs and FPUs

(excluding FPSOs, SPARs, TLPs)

PREPARED BY: Chad Supan of Mustang Engineering
POSTER LAYOUT: Chris Jones of Xenon Group | www.xenongroupdesign.com

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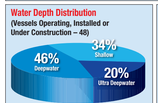
MUSTANG
A Wood Group Company

POSTER 89

NOTES:
1. The Independence Hub is 80% owned by Enterprise and 20% by Helix Energy Solutions.
2. Independence Hub produces from 10 fields - Atlas, Atlas NW, Cheyenne, Jubilee, Merganser, Mondo NW, Q, San Jacinto, Spiderman and Vortex.
3. Na Kika produces from 6 fields - Kepler, Ariel, E Anstey, Hershel, Fourier and Coloumb.
4. Atlantico Sul Consortium - Camargo Correa, Iesa, and Aker Shipyards.
5. ANCHOR TYPE (Drag Embedment, Plate, Vertically Loaded)

Every attempt has been made to locate and contact all the Semi-FPSs and FPUs owners operating around the world. No owner(s) or Semi-FPSs and FPUs contractor(s) were intentionally excluded from the survey. In some cases the owner or vessel has not been included because information was not supplied in time. We have attempted to make the survey as complete and accurate as possible. However, we make no guarantee that it is all inclusive. The information was collected from company brochures, websites, personal interviewers, phone interviews, and in major part by owner-supplied data. Neither Mustang Engineering, L.P., nor *Offshore Magazine* guarantees or assumes any responsibility or liability for any reliance on the information presented.

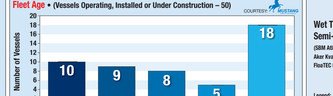
Water Depth Distribution
(Vessels Operating, Installed or Under Construction – 48)



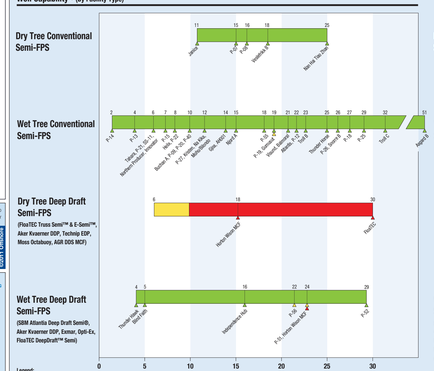
US MMS Definitions:
Shallow = 1 – 1,000'
Deepwater = 1,001 – 5,000'
Ultra Deepwater = 5,001 – 10,000'

COURTESY MUSTANG

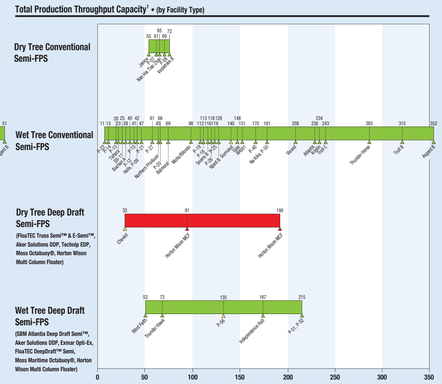
Fleet Age • (Vessels Operating, Installed or Under Construction – 50)



Well Capability • (by Facility Type)

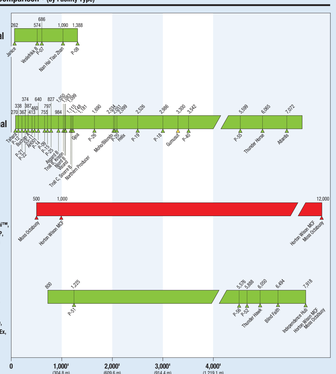


Total Production Throughput Capacity[1] • (by Facility Type)

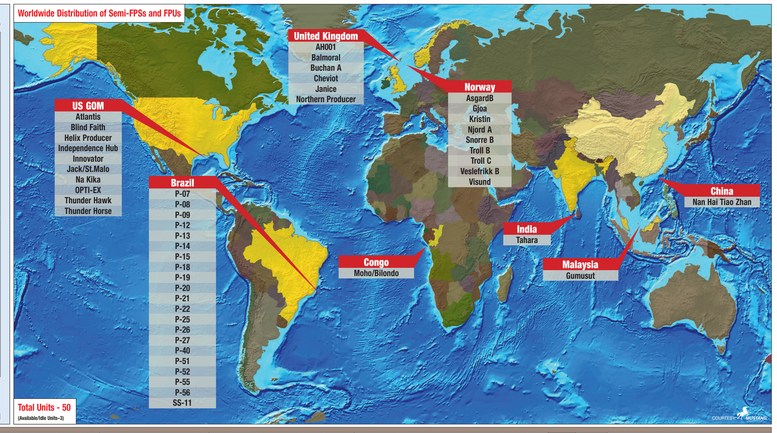


Notes:
1. Gas processing capacity is converted to BOE/day by dividing by 6.

Water Depth Range Comparison • (by Facility Type)



Worldwide Distribution of Semi-FPSs and FPUs



Status Legend: Operating | Construction/Conversion | Idle

| STATUS | FACILITY NAME | VESSEL OWNER | VESSEL OPERATOR | FIELD OPERATOR | LOCATION INFORMATION: FIELD(s) | COUNTRY | WATER DEPTH (ft) | RESERVES (MMBOE) | MILESTONE DATES: DISCOVERY DATE (D/M/YR) | SANCTION DATE (D/M/YR) | FIRST PRODUCTION DATE (D/M/YR) | WELLS: TOTAL WELLS | PRODUCTION WELLS | INJECTION WELLS | DRY TREE | SUBSEA | VESSEL TYPE | VESSEL DESIGN | MAIN CONTRACTORS: DETAILED ENGINEERING (HULL) | FABRICATION YARDS (HULL) | DETAILED ENGINEERING (TOPSIDES) | FABRICATION YARDS (TOPSIDES) | YARD (CONVERSION/ INTEGRATION) | GENERAL CONTRACTOR (EPCI) | HULL INFORMATION: CLASSIFICATION | DIMENSIONS: LENGTH (ft) | WIDTH (ft) | HEIGHT (ft) | MAX OPERATING DRAFT (M) | FACILITIES WEIGHT | DISPLACEMENT (TONS) | DEADWEIGHT (DWT) (TONS) | CONVERSION OR NEWBUILD | NUMBER OF PONTOONS | MAIN PONTOON LENGTH (ft) | MAIN PONTOON WIDTH (ft) | MAIN PONTOON HEIGHT (ft) | NUMBER OF COLUMNS | COLUMN LENGTH (ft) | COLUMN WIDTH (ft) | COLUMN HEIGHT (ft) | TOPSIDES: OPERATING WT (TONS) | DECK DIMENSIONS (ft) | NUMBER OF DECKS | PROCESS CAPABILITY: OIL PRODUCTION (MBOPD) | PRODUCED WATER (MBWPD) | GAS PROCESSING (MMscfd) | WATER INJECTION (MBWPD) | GAS INJECTION (MMscfd) | GAS EXPORT & GAS LIFT (MMscfd) | RISERS: PRODUCTION/INJECTION: TOTAL NUMBER OF RISERS | RISER TYPE (SCR, FLEXIBLE, RIGID) | MAX SIZE (in) | OIL EXPORT: SIZE (in) | RISER TYPE | GAS EXPORT: SIZE (in) | RISER TYPE | QUARTERS CAPACITY | TOTAL INSTALLED POWER (kW) | MOORING SYSTEM: ANCHORING SYSTEM | NUMBER OF MOORING LINES | ANCHOR TYPE (S) | Length of Mooring Line (miles) | PERMANENT or DISCONNECTABLE | PLATFORM CHAIN DIAMETER (in) |
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