

West Leo

West Leo is a 6th generation semi submersible under construction at Jurong shipyard in Singapore, with planned delivery Q4 2011. The design is based on Moss Maritime CS50 MkII and the unit is designed to work in both benign and harsh environments.



Further information: Tel: +47 51 30 90 00 • seadrill.com

GENERAL

Design	Moss CS50 MkII
Built/year	Jurong / 2011
Flag	TBA
Classification	DNV
Class notations	1A1 Column Stabilized Drilling Unit, DRILL(N), E0, DYNPOS AUTRO, CRANE, HELDK

MAIN DIMENSIONS/TECHNICAL

Length x breadth	387 x 239 ft
Design water depth	10 000 ft
Min. water depth	500 m
Drilling depth	35 000 ft
Variable load	6 200 mt (drilling) 5 700 mt (transit) 5 600 mt (survival)
Propulsion	8 x 3 800 KW thrusters
Transit speed	8 knots (design speed)
Helideck	Sikorsky S-92 or equivalent
Accommodation	192 persons

STORAGE CAPACITIES

Fuel	3260	m3
Drill water	1500	m3
Potable water	775	m3
Liquid mud	2000	m3
Base oil	535	m3
Brine	560	m3
Barite/Bentonite	380	m3
Cement	380	m3

DRILLING EQUIPMENT

Derrick	NOV 1000 st
Drawworks	NOV 1000 st, 5750 hp
Racking capacity	272 std. (36 720 ft) 6 5/8" DP triple R3 63 std (8 505ft) 9 5/8 or 13 5/8 csg.
Top drive	NOV HPS 1000-2E-AC-KT 1000 st
Rotary table	NOV 60 1/2"
Iron roughneck	2 x Hydratong MPT 200
Motion compensation	NOV Crown mounted active / passive
Riser tensioner	NOV N-line 6 x 300 kips

WELL CONTROL

BOP	Shaffer - 18 3/4" - 15K 6 Ram + 2 x 10K annular
Diverter	Shaffer 14" diverter lines
C&K manifold	Techdrill - 15K

RISER SYSTEM

Type	Shaffer
Length of joints	75 ft
Min. ID	18 3/4"
K&C lines	4 1/2" ID - 15K

BOP/RISER HANDLING

BOP crane	2 x 200 mt gantry crane
Riser crane	2 x 20 mt gantry crane
BOP skid	450 mt
Xmas tree crane	2 x 60 mt gantry crane
Xmas tree skid	120 mt

MUD SYSTEM

Mud pumps	4 x NOV 14-P-220
Pressure rating	7500 PSI
Shale shakers	5 x Derrick DP-626 1 x Derrick DP-626-3-20

POWER

Main engines	8 x Rolls Royce Bergen Diesel (4 rooms)
Total power	36,8 MW
Emergency power	Covered by main engines

STATION KEEPING

DP class	DP 3 DYNPOS AUTRO
DP control system	Kongsberg
Anchor chain	N/A
Anchors	N/A

LIFTING EQUIPMENT

Deck crane	2 x Liebherr BOS 4200-100 pedestal cranes
Deck crane rating	Main block 100 mt Whip line 15 mt
Pipe handling crane	1 x NOV 12 mt knuckle boom

OFFLINE ACTIVITY CAPABILITY

Full offline capability with NOV Hydraracker and Iron roughneck installed to facilitate offline standbuilding of DP 3 1/2" - 6 5/8 and Casing 7" - 13 5/8". NOV N-line BOP trip saver designed to skid and park the tensioners away from rotary.