

ORIENTAL DISCOVERY



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General Description

Design/Generation	F&G JU-2000E
Constructing Shipyard	Shanghai waigaoqiao Shipbuilding Co. Ltd
Deliver Year/Upgrades	2014
Classification	DNV
Flag	PANAMA
Overall Dimensions	323.8ft L × 249.3ft W × 31ft D
Legs	3 × 166.98(548), incl. Spud Can
Usable leg below hull	145m(475ft)
Spudcan diameter	17.985(59ft)
Draft at loadline (deepest)	6.692m(22.94ft)
Displacement	23,000MT(50772.6 kips)
Drilling VL	6,577MT(14518.8 kips)
Cantilever Envelope	22.86m(75ft) ± 4.57m(15ft)
Operating Water Depth	400ft(max)/30ft(min)
Max. Rating Drilling Depth	10668.13m(35000ft)
Accommodation	140 beds

Drilling Equipment

Derrick	CAMERON / Hot dipped galvanized
Simultaneous setback + hookload capacity :	906t (2,000 kips)
Drawworks	CAMERON/ UltraHoist SG 1060-6000 Rated input power:4,600 (Continuous) Motors make/type: GE/ GEB-22E
Top Drive	CAMERON / TD-1000-AC-2M, Electric Maximum continuous torque:98,000 ft-lbs Output power:2,300hp
Rotary Table	CAMERON / Hydraulically powered Maximum opening: 49½in
Tubular Handling	CAMERON / SmartRacker Racking Gripper Head: 3½ - 13½ in / 22,000lbs Pick-up Elevator: 2½ - 13½ in / 22,000lbs Tail Arm Guide: 2½ - 13½ in / 22,000lbs
Mud Pumps	3 × Cameron/ W2214 Maximum working pressure:7500psi
Solid Control	Shale Shakers:4 × MI Swaco/ MD-3 Mud Cleaner: MI Swaco/ Mongoose Pro 3-12 10T4MC
Drilling Manifold	Rated for 7,500 Psi

Power Plant

Main Power	6 × Caterpillar 3516B-HD diesel engines Maximum continuous power 2149hp, 1,200 rpm
Emergency Power	1 × CUMMINS/CCFJ900-E/1200hp/1800rpm

STORAGE CAPACITIES

Fuel Oil	642m³(4037.7bbl)
Liquid Mud	830 m³(5220.1bbl)
Brine	219m³(1377.4bbl)
Base Oil	219m³(1377.4bbl)
Drill water	1,338 m³(8415.1bbl)
Potable Water	561 m³(3528.3bbl)
Bentonite/barite	60 × 3+96 × 1=276m³(9742.8ft³)
Cement	60 × 3+96 × 1=276m³(9742.8ft³)
Sack Storage	5,000 sacks

BOP Equipment

Diverter	VETCO GRAY/ KFDJ-500 / 500psi
BOP annular	CAMERON, 18-3/4" × 10,000 Psi,
BOP rams	2 × Cameron/18-3/4" 15000psi TL Blowout preveter/18-3/4" × 15k Psi, Double Ram;
BOP handling	2 × TTS, safe working load at 75MT each; Number of IIfT points on BOP: 4

Cranes

Port & stbd	2 × Seatrax/S7232 King Post Boom length:124ft Block capacities and hoisting speeds Load/radius/speed (min radius): 81.6/23/0.93 Whip capacity and hoist speed Load/radius/speed (min radius): 14.9/126.3/5.47
Aft	1 × Seatrax/S7232 King Post Boom length:124ft Block capacities and hoisting speeds Load/radius/speed (min radius): 81.6/23/0.93 Whip capacity and hoist speed Load/radius/speed (min radius): 14.9/126.3/5.47

Mooring Equipment

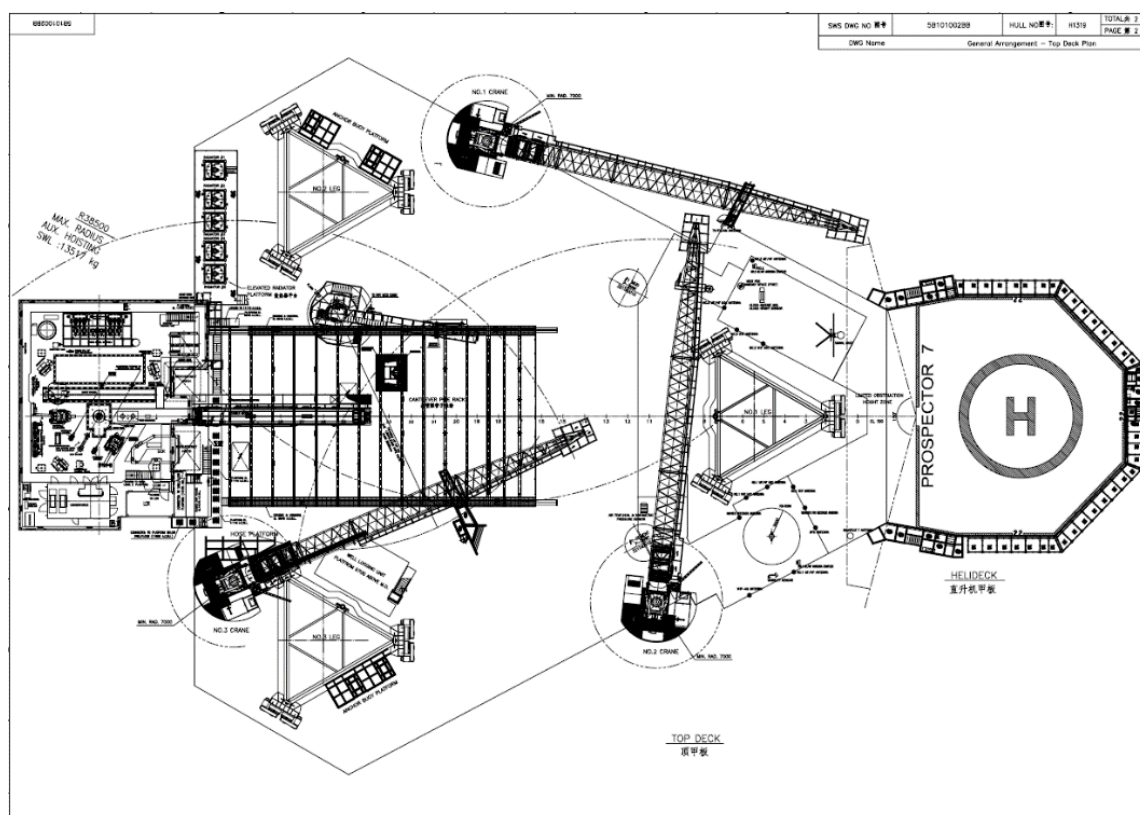
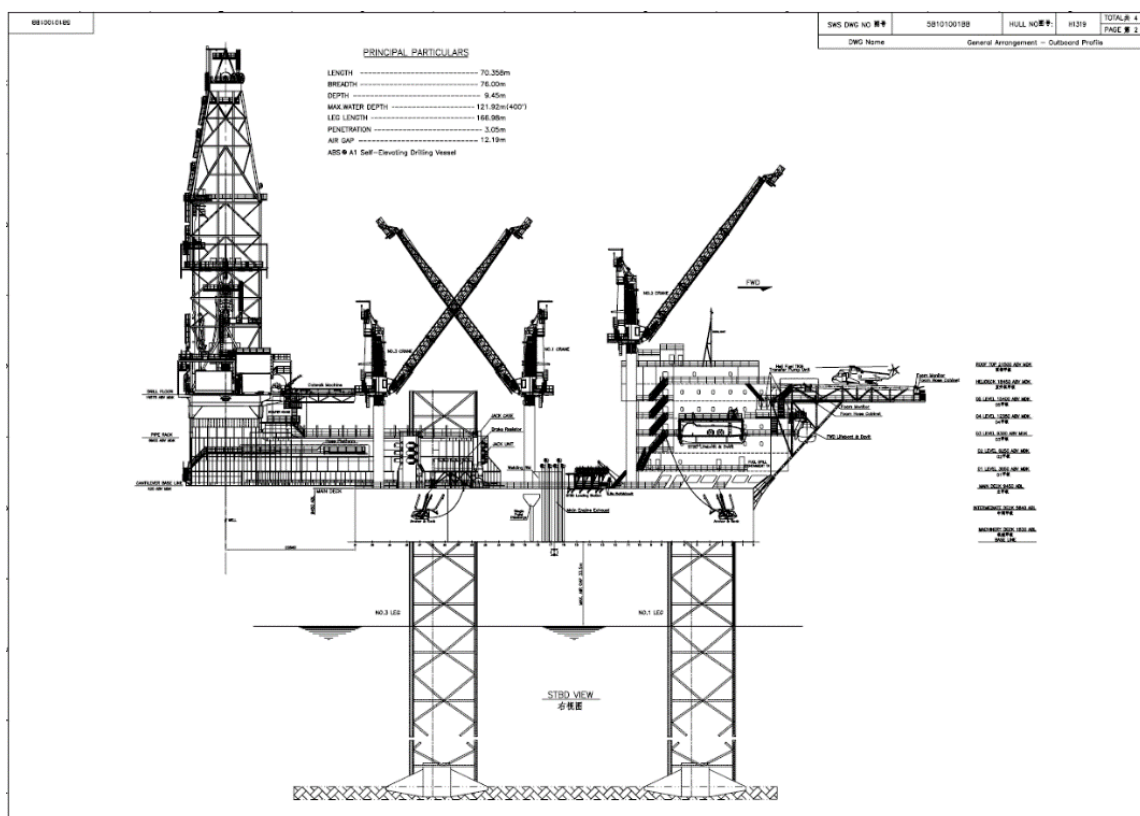
AnchorWinches	4 × PH Hydraulics/ single drum two speed
Anchor Lines	4 × ZAB 6 × 36 + IWRC 1960 Terminated with a closed spelter socket
Anchors	4 × Mordec/Flipper Delta Anchor with swivel shackles weight : 7.5 mt

OTHER FEATURES

Helideck	Sikorsky S-61N and S-92A
Tension	TSC
System	Tension capacity :600kips Secondary Tensioning capacity: 300kips

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