

Item	Subject		DSJ-300 Specification
1	Type of rig		Almost triangular pontoon shaped hull with three open truss legs
2	Main dimension	Hull length	62.8m
		Hull breadth	60.2m
		Hull depth	8m where: 1.5m for base line to tank top; 3.25m for tank top to machinery deck; 3.25m for machinery deck to upper deck.
3	Space between Legs	longitudinal	39.8m
		transverse	43.4m
4	Lightship weight		approx.9264t
5	Max. deck load (survival mode)		2750t
6	Max. combined drilling load		1000 tonnes
7	Design draft		Approx 4.9m
8	Structure design temperature		minus 10 Celsius degree
9	Max water depth capacity		300 ft
10	Air gap (300ft/250ft)		11.28m/13.41m
11	penetration(300ft/250ft)		3.05m/3.05m
12	Drilling depth		30000 ft
13	Drilling envelops		Reach AFT 50 ft Transverse 15 ft x 15 ft
14	Hull design loads		
	variable load	max.combined variable(subject to location,water depth,environmental condition,stability nomograms)	4080t
	Drillfloor/cantilever load max.Combined total consisting of any proportion of the following:		1000t
	hook		681t
	rotaty		681t
	set back		340t
	Cantilever pipe rack load total		272m
15	Cantilever design load		
	50 fts aft of Transom(Max.)	on CL	771t
		15'off CL(p/s)	295t
	50 fts aft of Transom(Max.)	on CL	1000t
15'off CL(p/s)		726t	
16	Tank capacity (m3)	Ballast	Approx.10130 m3 (9433m3 ballast water will be required at preload condition)
		Fuel oil	~727
		Potable water	~506
		Drill water	~1300
		Liquid mud	~660
		Brine	~129
		Base oil	~129
		Bulk cement	
		Bulk bentonite/ barite	~400
		Sack storage	5000 sacks

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17	No of beds	105 persons (105 crews. Double room---50 single room---5)	
18	Helicopter type	Sikorsky S-61N	
19	Legs	Number	3
		Type	Triangular open truss, single K-braced structure
		Size	10.0 m chord center to center
		Length incl footing	125.3m
		Leg foot diameter	15.2m
		Leg penetration	3.05
20	Jacking system	Number	3 x 18 pinions
		Size	200t per pinion effective jacking
		Jacking speed	0.45 m/min
		Drive	AC electric, variable speed
21	Fixation system	Number	18 x 6-tooth racks
		Drive	AC electric
22	Diesel Engine Generators	Five(5) sets, each engine power approx. 2303 bHP (1717bKW),1500 rpm, generator power 2000ekVA, 0.7 PF,600V,50Hz	
23	Emergency Generator	one(1) set, enige power approx. 805bkW,1500 rpm,generator power 900ekVA, 0.8 p.f, 400V,50Hz	
24	Compressors	Three (3) sets service compressor,rotary screw type, each approx. 14.2m3/min@10bar One (1) cold start air compressor, diesel engine driven,1.0m3/min@10bar	
25	Cranes	1x40+2x30	
26	Anchors	4x30t	
	Derrick	Top drive	Rated Load: 750 Ton Working pressure: 7500 psi Output power: 2 x 450KW Wash pipe: 7.5 Ksi , 4 inch TDS guide Dolly: 91X108, 45" retract Maximum continuous torque: 59000 ft-lb (80 000 Nm) Two speed gear box: one speed (VFD AC Driven) Maximum rotary speed: 241 rpm Cooling system type: Fan
		Derrick	Gross nominal capacity:900 mt Static hook load:6750kN (1,500, 000lbs) Height: 170ft (52m) Dimensions of base:35 ft x 35 ft (10.668m x 10.668m) Dimensions of crown: 18 ft x 18 ft (5.486m x 5.486m) Maximum number of lines: 14 Racking Board Height: 87ft (26.5 m) V-Door Height: 18.5m Rated for wind speed: No Hook Load, Full Standpipes: 51.5m/s (100knots) Max. Hook Load, Full Standpipes:36m/s (70knots)

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27	Drilling equipment	Rotary table	Maximum opening: 49-1/2 inch Max. Working Torque: 64400 N.m (47480ft/lbs) Mechanical lock torque: 120,000 ft.lb Driven by: AC Motor AC Motor Power: one (1) x 800 kW
		Drawwork	Input Power: 2200kW (3000HP) (Two (2) 1100kw AC motors) Max.Pull of fast line: 640kN Shifts: 2+2R (Step less) Drum Type: Grooved Max. block speed: 1.5m/s Diameter of wire: Φ45mm (1-3/4") Size of drum: Φ1060x1840mm Main Brakes: Hydraulic disc brake, Φ2200mm x 80mm Auxillary Brakes: regenerative braking
		BOP	One (1) 21-1/4" LP BOP stack including: One (1) off 21-1/4"-2000psi WP annular preventer One(1) off 21-1/4"-2000psi WP double-ram preventers One (1) 21-1/4"-2000psi drilling spool One (1) 13-5/8" HP BOP stack including: One (1) off 13-5/8"-5,000 psi WP annular preventer Two (2) off 13-5/8", 10,000 psi WP double-ram preventers One (1) 13-5/8", 10,000 drilling spool
		Diverter	One (1) 49-1/2" rotary table opening, bore 29-1/2", 500 psi with 12" diverter outlet
		Mud pump	Three (3) sets, horizontal triplex single action type, each pump including: Two(2) x 800hp AC motors top mounted Maximum Working Pressure 7,500psi Maximum Liner Size 7" Stroke Length 12" (305mm) Chain-drive pump drive
		Shale shaker	Three (3) sets, direct drive, each shaker including two 2.5 hp canister vibra motors per screen deck One (1) mud cleaner, including one (1) shale shaker, one (1) 3x 12" desander and one (1) 24x4" desilter
		Cement unit	Maximum working Pressure: 10000psi Unit driven by: Diesel Engine Triplex Plunger Pumps Number: 2 Third Party Furnish