



SPARTAN 202
Rig Inventory

APPENDIX B

Drilling Vessel Description	The mat/slot rig was designed and constructed as a 250ft. class jackup by Bethlehem Steel Corporation in accordance with the rules of the American Bureau of Shipping and is classified as an A-1 Self-Elevating Mobile Drilling Unit. The rig has undergone two major overhauls and upgrades, one in 1991 and the other in 2006. <u>Its operating water depth is reduced to 225ft. due to shortened leg length.</u>	
Dimensions:	Legs (3) each – 12’ diameter, 287’ long (including mat) Hull Dim: 176’ x 132’ x 16’ Mat Dim: 170’ x 210’ x 10’ w/2’ skirt Hull/Drilling Slot: 50’ x 58’ x 16’6” Mat Slot: 90’ x 87’ x 10’	
Jacking System:	Bethlehem, electro-hydraulic yoke and pin system.	
Design Operating Conditions:	Maximum Water Depth (Non-Hurricane)	225’
	Maximum Water Depth (Hurricane)	200’
	Minimum Water Depth	22’
	Minimum Water Depth (Mat Deballasted)	11’
	Drilling Depth Capacity	20,000’
Maximum Operating/ Environmental Conditions:	Normal Drilling:	Kips
	Variable Deck Load	3,830
	Drilling Load	4,500
	Maximum Jacking Variable	1,330
	Hook/Setback Load	870
	Wind Speed (knots)	100
	Wave Height (ft.)	35
	Hurricane Survival:	
	Variable Load (kips)	3,000
	Wind Speed (knots)	100
	Wave Height (ft.)	50
Rig Storage Capacities:	Weight Material & Cement:	
	Bulk Mud	3,000 sacks
	Bulk Cement	4,050 cu. ft.
	Sack Storage	3,000 sacks
	Liquids:	
	Drilling Mud – Active	1,500 bbls
	Drill Water	4,484 bbls.
	Diesel Fuel	1,796 bbls.
	Potable Water	472 bbls.



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Drawworks:	National 1320, 2000 HP powered by two (2) Cat 399. Braking system – Baylor Model 7838 electric current system. Crown-O-Matic. Lebus Grooving-drum grooved for 1½” drill line. Catheads – breakout and spinning.
Derrick:	Continental Emsco Model 20RD Derrick, 147’ clear height by 30’ base, 1,400,000 lbs. gross nominal rating. Deadline anchor – National EB 500 Ton
Mud Pumps:	Two (2) National 10-P-130 triplex pumps powered by two (2) EMD 16-567 diesel engines. One (1) Lewco WH-1612 Triplex Mud Pump with 3516 Caterpillar Diesel Engine Package and torque converter on oil field skid.
	Note: Spartan Offshore will provide one (1) size liner for mud pumps. Operator to designate size prior to rig mobilization. The pumps shall be operated at a maximum of 85% of manufacturer’s stroke and pressure rating when operating on a continuous basis.
Rotary:	National C-375, 37.5” minimum bore driven by Drawworks power.
Crown:	National, seven (7) x 60: forged steel sheaves grooved for 1-3/8” drill line rated at 500 tons.
Traveling Block/Hook:	National 650-G
Swivel:	National P-500
Standpipe:	Dual 5-9/16” O.D. x 4.25” I.D. 5,000 psi wp
Wireline Unit:	Mathey .092”
Rig Floor Air Hoist:	Ingersoll Rand
Handling Tools:	For Contractor’s 5” pipe: Tongs, slips, elevators, spinning wrench. All testing tools and subs are for Operator’s account.
Engine Generator Set:	Two (2) each EMD 12-567 diesel engines each driving a 750kw x 480 volt generator. One (1) 150kw auxiliary generator powered by a 3306 Caterpillar diesel engine.
Rig Floor Man Rider:	Ingersoll Rand



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Instrumentation:	Weight indicator Driller's console Tong torque indicator Pump pressure gauge Pump strokes Rotary RPM Pit Volume Gain/loss indicator Mud flow Air purge 6-pen recorder (ROP, wt. pump pressure, torque, rpm, strokes)
Shale Shakers:	Three (3) each Fluid Systems linear elliptical motion shakers, Model E5000BLE-12X
Desilter/Desander/Mud Cleaner:	One (1) each, Fluid Systems linear elliptical motion mud cleaner, Model E5000BLE-18X DHC14F3F, with 14 each (4") High Volume FSI Desilting Cones and 3 each (10") High Volume FSI Desander Cones.
Degasser:	Swaco
Desander Pump:	6" x 8" 100 psi powered by 75 HP
Desilter Pump:	6" x 8" 100 psi powered by 75 HP
Mud Mix and Transfer Pump:	Two (2) 6 x 8 centrifugal pumps driven by a 75 HP, 1800 rpm AC motor.
Mixing Hoppers:	One barite hopper and one chemical hopper.
Surge Tank:	One 150 cu. ft. barite tank
Bulk Mud:	Total capacity 3,750 cu. ft.
Bulk Cement:	Total capacity 3,750 cu. ft.
Quarters:	63-person air-conditioned quarters complete with galley, mess hall, recreation room, hospital room, bath facilities, change room, laundry and state rooms and office for rig manager and Operator's representatives.
Heliport:	60' x 60' designed for Sikorsky S-61 loading.
Communication System:	24-station, Gai-tronics inter-rig system and VHF marine radio.



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Cranes:	One (1) Letourneau with 100' boom, rated at 50 tons at 24 feet; One (1) BMC 900 with 100' boom, rated at 35 tons at 30 feet
Cementing Unit:	BJ Services unit currently on board. Unit and all associated equipment is for Operator's account.
Life Saving & Fire Protection:	Two (2) 65 Person Life Boats All other United States Coast Guard (USCG) required personal floatation devices, work vests, ring buoys, smoke and light signals on board.
Weather Instrumentation:	Wind speed and direction unit – Barometer.
BOP Equipment:	<p>All have H₂S trim</p> <p>Diverter: 21-1/4" with hydro control valves & straight over board lines 2000 psi.</p> <p>Annular: 13 5/8" Shaffer 5,000 psi Single: 13-5/8" Cameron Type "U" 10,000 psi Double: 13-5/8" Cameron Type "U", 10,000 psi equipped with one (1) pair of booster bonnets for shear rams.</p> <p>Manual Gate Valves: Two (2) 3-1/16" or 4-1/16" Cameron Type "F" 10,000 psi HCR Gate Valves: Two (2) 3-1/16" or 4-1/16" Cameron Type "F" 10,000 psi Accumulator: Koomey, 320 gal Adjustable Hydraulic Choke: Swaco super adjustable choke Choke and Kill Manifold: 10,000 psi, 3-1/16" BOP Choke and Kill Hoses: One (1) each</p> <p>Note: Contractor will provide the 5" rams and one (1) set of shear rams. All replacement BOP rubber goods shall be recharged per Contract.</p>
Tubulars:	Up to 15,000 ft. of Contractor's 5" drill pipe & BHA per Contract provisions. All others for Operator's account.
Top Drive:	Tesco 650HCI-1205, 650 ton.
Satellite/Cell Communications	Communications provided by Broadpoint (Recharged per Contract provisions).