



SPARTAN 303
Rig Inventory

APPENDIX B

Drilling Vessel Description	Designed and constructed by Bethlehem Steel Corporation 1974 (Completely remanufactured 2006), the 262 ft. mat slot SPARTAN 303 was built in accordance with the rules of the American Bureau of Shipping and is classified as an A-1 Self-Elevating Mobile Drilling Unit.	
Dimensions:	Legs: Three (3) each – 12’ diameter, 321’ long (331’ including mat) Hull Dim: 132’ x 176’ x 16’6” 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)	262’
	Maximum Water Depth (hurricane)	200’
	Minimum Water Depth	23’
	Minimum Water Depth (Mat Deballasted)	14’
	Drilling Depth Capacity	25,000’
Maximum Operating/ Environmental Conditions:	Normal Drilling:	Kips
	Variable Deck Load	4,500
	Drilling Load	4,500
	Maximum Jacking Variable	2,400
	Hook/Setback Load (Combined)	950
	Hook Load	950
	Rotary Load	950
	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	3,900 cu. ft.
	Bulk Cement	4,050 cu. ft.
	Sack Storage	3,000 sacks



SPARTAN 303
Rig Inventory

APPENDIX B

	<p>Liquids:</p> <p>Drilling Mud – Active 1,500 bbls Drill Water 4,484 bbls. Diesel Fuel 1,796 bbls. Potable Water 472 bbls.</p>
Drawworks:	National 1625-M double drum, (3000 HP) powered by three (3) Superior PTDS-3 diesel engines. Crown-o-matic. Lebus Grooving-drum grooved for 1½” drill line. Catheads – breakout and spinning. Elmagco 7838 brake.
Derrick:	Continental Emsco Model 20RD Derrick, 147’ clear height by 30’ base, 1,400,000 lbs. gross nominal rating. Capable of racking back 18,000 FT. of 5 1/2” drill string.
Mud Pumps:	Two (2) National 12-P-160 triplex single acting mud pumps powered by 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 90% 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 1-1/2” drill line rated at 500 tons.
Traveling Block/Hook:	National 650-G
Standpipe:	Dual 5-9/16” O.D. x 4.25” I.D. 5,000 psi wp
Wireline Unit:	Mathey 3/16”
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 750 KW x 480 volt generator.



APPENDIX B

Rig Floor Man Rider:	Ingersoll Rand
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) Fluid Systems Series Shaker 5,000 B4X-12
Desander:	Fluid System Series 5,000 BDHC – 3 x 8” cones over Fluid Systems Shaker 5,000 B4X-12
Desilter/Mud Cleaner:	Fluid Systems Series 5,000 BDHC – 14” cones over Fluid Systems Shaker 5,000 B4X-12
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:	Barite hoppers and one chemical hopper.
Slide Tanks:	One (1) 75 cu. ft. cement tank (Halliburton).
Bulk Mud:	Total capacity 3,750 cu. ft.
Bulk Cement:	Total capacity 3,750 cu. ft.
Quarters:	50 Persons Total – 48-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 representative, w/ additional 2 personnel in separate USCG approved modular quarters building.



APPENDIX B

Heliport:	60' x 60' designed for Sikorsky S-61 loading.
Communication System:	24-station, Gai-tronics inter-rig system and marine, VHF, radio.
Cranes:	One (1) LeTourneau PCM-120 100' boom, rated 43.9 tons at 24 feet; One (1) Unit 450 100' boom rated for 26,800 at 20 feet.
Cementing Unit:	Customer rented - Halliburton unit on board
Life Saving & Fire Protection:	Two (2) 28 Person Life Boats, Two (2) 25 Person Life Rafts, plus all 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)