



Blake 1006E

RIG SPECIFICATIONS AND EQUIPMENT INVENTORY

Mast and Superstructure

Assembly:

1. DRECO 136' "free standing" triples mast with a static hook load of 500,000 pounds with 10 lines. Maximum wind load 115 MPH, no setback and 85 MPH rated setback 18,000' of 3-1/2" drill pipe, 13,500' of 4-1/2" drill pipe & 9,300' of 5" drill pipe. Rig is capable of skidding with full setback.

Master Skid and Substructure:

1. Mast and drawworks skid, 18' x 36" to accommodate a DRECO 136' telescoping mast and 1000 H.P. drawworks with two (2) GE752 traction motors.
2. Box girders 62 ft. by 5 ft.
3. Dual purpose substructure supports:
 - a. 18' x 8' x 17' high fluid storage tanks with two 90 bbl. compartments. (shaker tank = 180 BBLs)
 - b. 18' x 8' x 17' high fluid storage tanks with two (2) 90 bbl. compartments. (Reserve tank = 180 BBLs)
4. BOP Trolley System and cradle with four (4) 12 ton trolleys
5. Contractor will endeavor to perform MMS required BOPE testing operations off of the critical rig operations path whenever possible.

Drawworks and Prime

Mover Assembly:

1. 1000 H.P. Gardner Denver single drawworks.
2. Parmac 342 hydromatic brake installed on drawworks.
3. Koomey Crown-O-Matic TCBA, installed on drawworks.
4. Lebus grooving, split sleeves for 1-1/4" drill line (Type XXIP).
5. Gardner Denver (GDS1000S) drawworks powered by two (2) GE752 traction motors and four (4) National D-1000 transmissions.

Rotary Table and

Associated Equipment:

1. Gardner-Denver Model RT-27-1/2" rotary table. Rated 500-tons dead weight capacity, 250-ton capacity at 100 RPM.
2. Continental Emsco LB-400 swivel, 400-ton dead load capacity complete with 6-5/8" API regular left hand pin down substitute and link bumper, 260-ton capacity and 100 RPM (with quick change packing).



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3. Gardner-Denver TRW-30 block hook, 300-ton capacity with five (5) 42" diameter fabricated steel sheaves grooved for 1-1/4" drill line, 8" diameter coaster pin. Equipped with Web Wilson 250-ton hydra hook.
4. 5-1/4" Hex kelly with 6-5/8" regular API LH box thread 40' long with 4-1/2" XH bottom connection. (Note: Kelly not to be stored on rig due to use of top drive)
5. OMSCO upper kelly valve, 6-5/8" 10M lbs. test pressure.
6. One (1) Kelly spinner and 5 1/4" hex kelly drive bushing

Travel and Associated Equipment:

1. 300 Ton Traveling block with five (5) fabricated steel sheaves.
2. One (1) set Web Wilson bails, 2-3/4" x 108" long, 250-ton or equivalent.
3. One (1) set YT Elevators for 2 3/8" 2 7/8", or 3 1/2" tbg.
4. One (1) Spinmaster 950H spinning wrench.
5. One (1) set each of BJ Type DB manual tongs.
6. One (1) set rotary slips

Pump Units:

1. Two (2) Electric Gardner-Denver PZ-9 (1000 HP) mud pumps powered by GE 752 traction motors. Pump skids contain two (2) 75 h.p. charging pumps.

Blowout Preventer Stack:

1. One (1) Hydril GK, 11" 5M working pressure annular preventer with 10M flange on bottom.
2. One (1) 11" Cameron Type "U" double, 10M working pressure with 11" 10M working pressure flanges top and bottom, with 4-1/16" 10M working pressure flange outlets between rams.
3. One (1) 11" Cameron type "U" single Ram type preventer, 10M working pressure with one (1) 4-1/16" 10M working pressure flange outlet.
4. One (1) set of blind Shear rams and two (2) sets each pipe rams 2-3/8", 2-7/8" and 3- 1/2".
5. 11" Bell Nipple.
6. Two (2) 4-1/16" Cameron HCR valves rated at 10M working pressure.



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7. Two (2) 4-1/16" Cameron Type "F" manual valves, rated 10M working pressure.

Blowout Preventer

Closing Unit:

1. Skid mounted blowout preventer closing unit consisting of 160 gallon 3,000 psi accumulator and manifold consisting of seven (7) stations complete with remote control station and 100 ft. control hose. BOP Closing Unit has air and electric power sources and capacity to operate a 21 1/4" diverter. Operator to be responsible for the control panel for operating the diverter.
2. BOP actuating lines between closing system and BOP stack.

Choke Manifold:

1. Skid mounted 3 1/16" 10M working pressure choke manifold with hydraulic choke and gas buster 19' x 24".
2. 200' of 2" chokesan lines (10,000 PSI working pressure).

Tankage (560 Bbl.

Surface Volume):

1. Rig Substructure (3 tanks system)
 - a. 180 bbl shaker tank with Burgess degasser
 - b. 180 bbl reserve tank with two, (2) 10 h.p. agitators.
 - c. 200 bbl active tank with slug and pill tank compartments, mud mixers and two (2) 75 h.p. 5" x 6" Mission Magnum electrical centrifugal pumps.
2. Additional 142 Barrel tanks are available if needed (to be charged at current rental rates.)

Mud Processing System:

1. Mud system.
 - a. Burgess Magna-Vac, Model 1000 degasser
 - b. Two (2) Fluid System, Model 500, linear shale shakers
 - c. One (1) Vortex Venture Shear Mixer System
 - d. Fluid Systems Mud Cleaner

Accessory Rig Equipment:

1. Quarters: Accommodations for 53 Men.
 - 2 – 12' x 36' 18 Man Sleepers.
 - 1 – 12' x 36' 11 Man Sleeper
 - 1 – 12' x 36' 2 man Toolpusher Sleeper/Office.
 - 1 - 12' x 36' Galley.
 - 1 – 12' x 36' Rec Room/6 Man Sleeper
2. Three (3) KTA 38 Cummins engines for generator power, three KATO 825KW generators.
3. One (1) IPS SCR House
 - a. One (1) 1500 Amp SCR Bay
 - b. Two (2) 2200 Amp SCR Bay



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- c. Internal buswork rated at 3000 amp capacity
- 4. Two (2) electric Quincy Model 390 Air Compressors for standard rig equipment. (72 CFM @ 120 psi)
- 5. One (1) 142 Bbl. diesel tanks and transfer pump.
- 6. One (1) 142 Bbl. potable water tanks and transfer pump.
- 7. One (1) sewage unit. (Red Fox Model 1500 gallon)
- 8. U.S.C.G. Life jackets and work vests, 3-25 man life floats, etc. for 75 men accommodations.
- 9. Standard safety equipment for normal operations.
- 10. One (1) personnel basket.
- 11. Rig lube.
- 12. Viscosity funnel and mud scale.
- 13. Hydraulic B.O.P. 10M Test Pump and Recorder. Repair parts are at the expense of the Operator after the initial test. (If this equipment is down for repairs, it will not go against the stated downtime for the rig and shall be treated as any other third party rental equipment on the rig.)
- 14. Gas detector and fire alarms. All labor for calibration and replacement of gas detector elements will be at the expense of the operator.
- 15. Gauges for all Blake International furnished equipment.
- 16. One (1) lift and roll hydraulic jacking system
- 17. One (1) (Model # OM 455 Crane with 120' boom for rig up and rig down only)
- 18. Renting from Tesco - Tesco 500 ton top drive system (Model # HS 500) to be charged at current rental rates

EQUIPMENT TO BE FURNISHED BY OPERATOR:

- 1. Offshore workover permits.



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2. Drilling site cleared of obstructions.
3. All marine and air transportation of Contractor's and Operator's Items and personnel between Operator's shore base and rig for crew change, safety personnel and operations personnel.
4. Fuel, rig water and bottled drinking water.
5. Weather forecasting and hurricane evacuation plan.
6. All electrical well logging services and unit rental, including string shot and back-off equipment (but Contractor to provide suitable space for installation of well logging unit) per the rig arrangement drawing.
7. All third party services including extra labor beyond Contractor labor schedule as previously stated (including third party for platform modifications, crane rig-up and MOB/DEMOB).
8. Operator agrees to rent workstring, handling tools and shear rams assembly as required other than that furnished by Contractor.
9. Cementing equipment, P tanks, cement, mud and additives
10. Wellhead connections, if necessary, to permit rig operations on operating deck.
11. Flanged connection from Customer's tree or wellhead to 11" series 1500 flange.
12. Field welder and equipment when required (to the extent not furnished by Contractor's normal crew complement).
13. Platform communication system. (Operator will allow Toolpusher to phone in hot shot reports daily and the use of a FAX machine.)
14. Expendable BOP replacements (including annular BOP elements, ram BOP element and ring gaskets) after initial set.
15. Ring gaskets and handling tool inserts (operator will furnish or reimburse Contractor after initial sets).
16. Replacement liners for pumps as designed to meet Operator's hydraulic specifications and expandable pump parts used after cement and/or acid job operations.



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17. All third party equipment, services and supplies furnished by Blake International at the request of Operator will be invoiced to Operator at third party published rates plus 10%.
18. Reserved
19. Casing, tubing and attachments.
20. Any drill pipe, and drill collars, kellys or subs in addition to those not furnished by Contractor.
21. Shale shaker screens greater than 84 mesh size.
22. Well test unit and associated equipment for production testing.
23. Loading and unloading services at dock site or heliport of all material and equipment of Contractor and Operator.
24. Containers for disposal of refuse and cuttings to transport from offshore location to dock and disposal at dock site.
25. Operator to provide pipe wipers.
26. Gaitronics communications in excess of five (5) stations and platform Gaitronic interface.
27. PVT equipment.