



BLAKE 1002E

BASIC RIG INVENTORY-BLAKE 1002E

Mast and Superstructure

Assembly:

1. DRECO 136' "free standing" triples bootstrap 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 of 110 stands 4-1/2" drill pipe.

Master Skid and Substructure:

1. Mast and drawworks skid, 18' x 36" to accommodate a DRECO 142' telescoping mast and 1000 H.P. drawworks with two (2) motor drive (electric).
2. Box girders 62 ft. by 5 ft.
3. Dual purpose substructure supports (7-compartments):
 - a. 20' x 8' x 17' 250 Bbl. 4 compartment active tank.
 - b. 20' x 8' x 17' 250 Bbl. 3 compartment shaker tank.
4. Split Master Skid with hyd. Jacks and skid pipes (skid top section)
5. Hydraulic rig mover jacks and mats to skid total rig package under support boxes.
6. Motorshed (drawworks roof) with built in brake water tank, hydraulic drill line rack with 1-1/4" plastic coat drill line, drill line anchor and air compressor skid.
7. Wing basket (off drillers side) with air purged motor control panel (MCC) 300 gal. hydraulic power unit (HPU).
8. Wing basket (drillers side), 160 gal. accumulator, 7 station with bottle skid and nitrogen back up.

Drawworks and Prime

Mover Assembly:

1. 1500 HP Partech OIME SL-7 electric drawworks with high/low drum clutch.
2. Parmac 342 brake installed on drawworks with over riding clutch.
3. Cardwell (hydrocat) hydraulic breakout cathead with air controls (over hyd.)
4. Cardwell (hydrocat) hydraulic makeup cathead with air controls (over hyd.)
5. Duramatic crown/floor protector, installed on drawworks.
6. Lebus grooving, split sleeves for 1-1/4" drill line.
7. Two (2) G.E. 752 traction motors 1000 HP (electric), factory frame (series) winding.



BLAKE 1002E

8. Partech - 2 speed transmission on top Partech right angle drive, coupled with Faulk 1050 couplings to traction motors (1500 HP).
 - a. Right angle drive with air brakes and torque tube to drive rotary table.
 - b. One (1) elect. driven drawworks oiler pump with all stainless steel piping on air lines.
 - c. One (1) 3 x 2 mission magnum centrifugal pump for hydromatic brake cooling system.
 - d. Oil lubricating system with heat exchange.

Rotary Table and Associated Equipment:

1. Continental Emsco T-2750-53-1/4 (27-1/2") rotary table with master bushing locks. Rated 500-tons dead weight capacity, maximum speed, 350 rpms.
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 at 100 rpm (with quick change packing assembly).
3. Gardner Denver TRW-30 Block 300 ton, with five (5) 42" diameter fabricated steel sheaves grooved for 1-1/4" drill line, 8" diameter coaster pin with 250 ton Web Wilson Hook (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.
5. OMSCO upper kelly valve, 6-5/8" 5,000 lbs. test pressure.
6. Varco kelly drive bushing complete with assembly for 5-1/4" Hex kelly with guide skirt.
7. Rotary hose, Goodall S-7500, 4' x 60' long with 40" API line pipe couplings.
8. One (1) set Web Wilson bails, 2-3/4" x 108" long, 350-ton or equivalent.
9. One (1) set YT elevators for 2-3/8" and 2-7/8" tubing.
10. One (1) set DU long slips for 2-3/8" and 2-7/8" tubing.

Travel and Associated Equipment:

1. 300 Ton Traveling block with five (5) fabricated steel sheaves, grooved for 1-1/4" drill line.
2. Set of Spinmaster 950H hyd. spinning tongs (for D.P. only)
3. One (1) set BJ type "B" tongs for 4-1/2" Drill Pipe.



BLAKE 1002E

Pump Units:

1. Gardner-Denver PZ-9: (electric)
 - a. Powered by G.E. 752 traction motor.
2. Gardner-Denver PZ-9: (electrical)
 - a. Powered by G.E. 752 traction motor.

Blowout Preventer Stack:

1. One (1) Hydril GK, 13-5/8" 5,000 PSI working pressure annular preventer with 5m flange on bottom.
2. One (1) 13-5/8" Cameron Type "U" double, 5,000 lb. working pressure with 13-5/8" 5,000 lb. working pressure flanges top and bottom, with 4-1/16" 5,000 lb. working pressure flange outlets between rams.
3. One (1) 13-5/8" Cameron type "U" single Ram type preventer, 5,000 lb. working pressure with one (1) 4-1/16" 5,000 lb. working pressure flange outlet.
4. One (1) set of blind rams and two (2) sets each 2-3/8" and 2-7/8" pipe rams.
5. 16"OD Bell Nipple.
6. Two (2) 4-1/16" Cameron HCR valves rated at 5,000 PSI working pressure.
7. Two (2) 4-1/16" Cameron Type "F" manual valves, rated 5,000 PSI working pressure.

Blowout Preventer Closing Unit:

1. Skid mounted blowout preventer closing unit (split skid) consisting of 160 gallon (7 station) 3,000 psi accumulator and manifold consisting of six (6) stations complete with (2) remote control station. Air and electric power sources and nitrogen backup system.
2. BOP actuating lines between closing system and BOP stack.

Choke Manifold:

1. Skid mounted 10m PSI working pressure choke manifold with 36" gas buster.
2. 200' chocksan lines (15m test working pressure).



BLAKE 1002E

Tankage (500 Bbl. Surface Volume):

1. Rig Substructure (500 Bbls.) consisting of the following:
 - a. 1-250 bbl. shaker tank manifolded to degasser, 1-5 h.p. dual blade agitator with shakers. (Operator to furnish screens.)
 - b. 1-250 bbl. active tank with (4) 5 h.p. dual blade agitators.
 - c. 4-50 HP 5" X 6" mission magnum electrical centrifugal pumps with mechanical seals, skid mounted on 2 skids on each tank.
2. Additional 142 Barrel tanks are available if needed for extra surface

Mud Processing System:

1. Unit has self contained mud system and engineered for excellent mud control.
 - a. 7-tank compartments, sand trap, settling tank, reserve tank, mixing tank, active tank and 2-slug tanks.
 - b. Top equalization between each compartment.
 - c. 36" gas buster with 8" vent and 8" discharges.
 - d. Burgess model 1000 degasser (1000 gpm flow rate) 20 h.p.
 - e. 2-Fluid System 50/500B Cascade shale shakers.
 - f. 2-10" Cone Desander.
 - g. 1-Mud Hopper
2. Unit is installed in rig substructure assembly.

Accessory Rig Equipment:

1. Generators: 3 - 700KW 600 volt (1) 10' x 20' Generator House, 1-SCR house and gen. day tank and qtrs. panel.
2. Air Compressor for standard rig equipment.
Gardner Denver Air compressor, 20 h.p. motors with 2-300 gal. air receivers.
3. One (1) 142 Bbl. diesel tanks and transfer pump.
4. Five (5) station gaitronic communication system.
5. One (1) 142 Bbl. potable water tank and transfer pump.
Two (2) 142 Bbl. drill water tank and transfer pump. (Additional drill water tanks available as required.)
6. One (1) sewage unit 1500 gal.
7. Two (2) Reda submersible pumps.
8. Drip pans and outlets with lines to operating system.
9. Two (2) skid jacks on strong back beams and 2 rig mover mats.



BLAKE 1002E

10. Life jackets and work vests, life rafts, etc. for 40 men accommodations.
11. Standard safety equipment for normal operations.
12. One (1) personnel basket.
13. Gas buster, 36" with 8" vent and discharge.
14. Sump tank.
15. Tool House (with rig tools and spare parts).