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Crown 900 Drilling Rig Specification.

Asking Price: \$1.2 Million USD

Rig Location: Oklahoma

Quantity Available: 2 Units

Drawworks:

One (1) S&S Model CE900ESD single drum, double shaft electric drive drawworks rated for 900 HP, with the following standard equipment. The Model CE900ESD Mechanical drive drawworks with band brakes consists of a single-drum, double-shaft drawworks mounted on a heavy-duty framework, with sheet-metal covers and provisions for mounting one DC Diesel engine. Auxiliary braking is achieved with an Eaton WCBD-336 Assist Brake.

Main Drum

Model: S&S CE900ESD

Drum Size: 22 in. x 46 in.

Lebus Grooving: 1-1/4 in.

Drum Clutch: Fawick Model 32VC1000

Brake Size: 44 x 11, c/w brake bands & brake linkage w/ greaseable pin conn

Drawworks speeds: Two (6) speeds with reverse through (2) Allison automatic transmissions

Cooling: Water circulating

Auxiliary Brake: Eaton (or equivalent) Model WCBD-336 Assist Brake Engines

(2) Detroit Diesel Series 60 @ 525 Hp each with Allisson 5861 transmissions

Assist Brake

One (1) Eaton (or equivalent) Model WCBD-336 Assist Brake, water cooled, with piping to the edge of the driller's side of the trailer for an external water source (external water source & charge pump not supplied with unit).

Brake Water Cooling Manifold for Main Drum and Auxiliary

Brake Cooling

One (1) water-cooling system manifold for cooling the main drum band brakes and auxiliary water brake, complete with all necessary piping to the edge of the unit and controls. Includes connection for outside water supply.

Crown Saver

One (1) Automatic Crown Saver safety shutoff device to limit block travel, installed on drawworks, automatically disengages clutch and sets main drum brake when block comes too close to crown block.

Hydraulic System

One (2) rig hydraulic system. Hydraulic system supplies power for trailer operations:

Hydraulic power supplied by separate Independent Hydraulic Power Unit

Rig hydraulic system includes all necessary piping to edge of unit and controls. Includes connection for outside hydraulic power supply.

Tong pressure control

Trailer:

All the above mounted on a 2006 Crown One (1) S&S trailer. The 120,000 lb. quad suspension trailer comes complete with Sixteen (16) 315/80R22.5 tires. The trailer deck is covered with safety tread plate. The front of the trailer is equipped with two (2) hydraulic leveling/lifting jacks and two (2) mechanical jacks. Two (2) belly jacks are located in the middle of the trailer and two (2) hydraulic leveling jacks are located at the rear of the trailer. Trailer also comes complete with folding diamond grip walkways, handrails, and removable stairs located on both sides of the trailer.

Winches

Two (2) 12,000 lbs. hydraulic winches (Model PD-12C-1), one (1) controlled at Driller's position and one (1) controlled at pipe rack side of substructure floor. Includes 325 ft. of 1/2 in. winch line. One (1) 6,000 lbs. hydraulic winch (boom pole), and 230 ft. of 1/2 in. wireline.

Deadline Anchor

One (1) Hercules Model HA119T (or equivalent) deadline anchor, 50,000#, for 1-1/4 in. wireline, deck mounted. For compression-type hydraulic weight indicator load cell (customer to furnish load cell with weight indicator).

Mast:

Mast fabricated per Current API Specification 4F, Product Specification Level (PSL). One (1) S&S 118 ft. x 440,000 lbs. guyed telescoping mast; hollow structural steel framing, designed and built in accordance with API 4F, using three dimensional nonlinear dynamic finite element software. Maximum mast hook load capacity is 440,000lbs. on ten (10) lines. Mast is manufactured with all HSS construction for minimum weight and maximum stability. The mast is equipped with a ladder mounted on the off-driller's side. The safety platform, handrails, and a fall arrest post are included with the crown frame assembly. The mast is equipped with a block cradle and two (2) belly lines & two (2) load lines. Two (2) 3-stage hydraulic cylinders (chrome-plated) are used to raise the mast and are equipped with safety chokes to prevent freefall in the event of a complete loss of hydraulic pressure. The mast incorporates two (2) single-acting, chromed, telescoping cylinders for raising the top section. The crown platform provides safety when servicing crown sheaves.

The crown block assembly comes with:

Four (4) 36 in. Fleet sheaves – grooved for 1 1/4 in. drill line
One (1) 42 in. Fastline sheave – grooved for 1 1/4 in. drill line
One (1) 30 in. Deadline sheave – grooved for 1 1/4 in. drill line

The crown block assembly uses all steel sheaves. The sheaves are mounted on tapered roller bearing inserts; bearing failure will not damage the sheave. The fittings are provided for individual bearing greasing.

Racking Board

One (1) automatic erecting racking board (for use with 18 ft. substructure). Welded fingers with 5 in. spacing for
4-1/2 in drill pipe.

Capacity for:

16,500 ft of 4-1/2 in drill pipe with 6-1/4 in. tool joint
Positioned for use with Range II tubulars in doubles
Complete with rear escape access

Make-Up and Break-Out Assembly

One (1) Make-up and break out assembly consisting of the following:
Unit comes with Two (2) 4 in. x 96 in. hydraulic cylinders, sheaves, rollers, and cables, including rollers on inside edge of mast leg.
Make and break cylinders mounted on back of mast

Hydraulic controls for make up and breakout functions, mounted over driller's console with automatic centering at end of cylinder stroke

Top Drive:

Tesco 250 Ton HXI 700 Top drive system (serial no. 921)

PLC System

D4P – 700 power unit, caterpillar 700 HP C-18 Prime Mover with a 4 pump drive.

Rated capacity through load collar 250 Ton 227 tonne

Rated horsepower 700 hp 522 kW

Max. continuous drill torque 24,000 ft-lb 3,254.5 daN-m

Make-up/Breakout torque 32,000 ft-lb 4,339.4 daN-m

Max. speed 200 rpm

Weight of the top drive plus:

elevators

elevator links

yoke + links (counterbalance system)

14,000 lb 6350 kg

Length (250T, with 9 ft. links) 17.5 ft. 5.3 m

Width 4 ft. 1.2 m

Quill connection NC50

Substructure (Manual Telescoping Lift):

One (1), 18 ft. high substructure (floor height). Skid-mounted, manually raised, telescoping substructure. Substructure is raised and lowered using a traveling block. Complete with one (1) set of stairs to trailer, timbers under setback, mouse-hole, rathole, tong backup posts, handrails, slip support beams for slip bowl (includes non-rotating slip bowl) and pipe ramp with stair to 3 ft x 6 in catwalk. Base of substructure to be plated on top and seal-welded on the bottom. Plugged drains to be installed for each compartment. Includes mast load beam (T-sill) with pin connections to substructure and mud boat. Includes 24 in clearance for v-door.

Specifications

Dimensions

Floor Height: 18 ft.

Width (Working Floor): 23 ft. 4 in.

Length (Working Floor): 12 ft.

Length (Porch): 4 ft. 3 in – 2 pin connections each side with guides & stops

Width (Porch): 23 ft. 4 in.

Width (Substructure Base): 45 ft.

Clearance Under Slip Bowl

Support Beams 15 ft. (approx).

Roading Height: 12 ft. 6 in. (approx)

Setback Capacity: 300,000 lbs.

Slip Support Capacity: 500,000 lbs. Slip Support Table Opening: 20-1/2 in.

Mud Boat:

Material

One (1) S&S manufactured Mudboat with provisions for tie-down at the front and rear of the trailer. This unit includes steel checker-plated tire guide rails. Ramp comes complete with all pins, turnbuckles, and lugs to pin to the load beam. With an independent ramp. Bar grating center, weighted, full plate underneath, seal welded.

Integrated Skidding System

Mechanical actuated claw indexing with minimal handling

Two foot (2') incremental skid cycle

Skid rail to accommodate 80' inline skid

*note skidding system raises floor height (1) foot when utilized.

Hydraulic supply can be ran off of either Top Drive PU or Rig Carrier.

Load Beam with Mast Pedestal

One (1) S&S manufactured load beam, to match the mast loading requirements. Load beam to be plated on top and bottom with plugged drains for each compartment. Load beam comes complete with mast pedestal, all pins, turnbuckles and lugs to pin to substructure.

Mud Pumps:

(2) Sichuan-GAOSHENG Model JF-1600 Chinese Triplex Mud Pump S/N# LLF01450 with Cat 3512 diesel engine, air clutch, air starter, V-belt drive, safety shut down system, pulsation, quick change caps, lubrication system, centrifugal charge pump, mounted on an oilfield skid base. In good condition showing 11,200 hours on February 2014.

Well Control:

Horn Spherical 11" 5000 psi annular b.o.p.

Horn LWS 11" 5000 psi Double Ram b.o.p.

Koomey Type 120 6 station accumulator w/ remote

Cameron 5000 psi choke manifold

Rig Houses:

8' x 22' Top Dog house w/lockers and storage (skids with the rig)
10' x 40' Change house w/ 12' parts room skidded
10' x 20' Mud House Skidded
8' x 8' Pin box for storage of all rig-up pins & skidding controls
10' x 30' Junk basket

Mud System:

2 pit, 780 bbl mud system, 10' x 50' x 7'-8" w/ (7) agitators
(2) Swaco Mongoose shakers
Swaco 10 cone Desilter
Swaco 2 cone Desander

Water/Fuel Tanks:

10' x 40' 500 bbl water tank w/(2) 2" x 4" centrifugal pumps
8' dia. By 40' L 12,400 gallon fuel Tank w/ transfer pumps and filter system equip with hoses for supply to all engines.

Handling Tools:

OWI Kelly spinner
4-1/2 250-ton elevators
3" x 108" 250 ton elevator links
4-1/2 250 ton DP slips
OWI pipe spinner
Web Wilson 4-3/4 to 10-3/4 manual tongs
Complete set of rig tarps
Martin Decker 400,000 Lb. weigh Indicator
Martin Decker 6-1/2" tong torque gauge.
4 sets of pipe racks