



## HOISTING, ROTATING & PIPE-HANDLING EQUIPMENT

<b>Drawworks</b>	National 110-UE rated @ 1500 hp driven by (2) GE 752 DC motors rated @ 1000 hp
<b>Auxiliary Brake</b>	NOV DM336 water-cooled friction brake
<b>Rotary Table</b>	Oilwell B-27-1/2 (27-1/2") independent hydraulic drive
<b>Traveling Block</b>	Veristic Technologies VT400-652 (400 ton)
<b>Top Drive</b>	Varco TDS-11SA (500 ton) rated @ 800 hp
<b>Iron Roughneck</b>	Varco ST-80
<b>Hydraulic Slips</b>	NOV PSF-01 Power Slip Frame
<b>Hydraulic Catheads</b>	Hi-Tech Model 1000
<b>Hydraulic Catwalk</b>	NOV PipeCat PC-5-47

## MAST & SUBSTRUCTURE

<b>Mast Design</b>	Veristic Technologies <b>Rocket-A2</b>
<b>Height</b>	142'
<b>Load Rating</b>	800k# Static Hook Load (12 lines)
<b>Racking Capacity</b>	21,000'+ 5" DP / 930' 8" DC
<b>Substructure Design</b>	Veristic Technologies <b>Rocket-A2</b>
<b>Floor Height</b>	25'
<b>Clear Height</b>	22'
<b>Load Ratings</b>	800k# Casing / 600k# Setback

## TRANSPORT

<b>Estimated Loads</b>	42 (less tubulars)
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## DRILLING CONTROL SYSTEM

<b>Driller's Cabin</b>	NOV climate-controlled and pressurized cabin with fully-integrated electronic controls and instrumentation
<b>Drilling System</b>	NOV "EDS" PLC control system w/ ergonomic driller's workstation

## POWER PACKAGE

<b>Engines</b>	(3) Cat 3512C rated @ 1476 hp
<b>Bi-Fuel</b>	N/A
<b>Generators</b>	(3) Kato 6P6-3150 rated @ 1204 kW / 1720 kVA / 0.7 pf
<b>SCR System</b>	Omron w/ (3) generator bays, (4) SCR bays, and (10) sections Allen-Bradley MCC

## BOP EQUIPMENT

<b>Annular</b>	T-3 Energy 13-5/8" 5M 7022
<b>Single Ram</b>	Cameron 13-5/8" 10M Type U
<b>Double Ram</b>	Cameron 13-5/8" 10M Type U
<b>Accumulator</b>	T-3 Energy 7-station / 220 gallon
<b>Choke Manifold</b>	Cameron 4-1/16" 10M
<b>Mud/Gas Separator</b>	Summit 4'OD x 20'L
<b>BOP Handler</b>	Veristic Technologies BHT-G6
<b>BOP Winches</b>	JD Neuhaus BH-40T (40 ton)

## MUD SYSTEM

<b>Mud Pumps</b>	(2) HongHua HHF-1600 triplex rated @ 1600 hp / 7500 psi, each driven by (2) GE 752 DC motors rated @ 1000 hp
<b>Charging Pumps</b>	(2) 6x5x14 @ 60 hp / 1200 rpm
<b>Process Pit</b>	(640 bbl) five-compartment w/ (3) 10 hp mud agitators
<b>Suction Pit</b>	(620 bbl) four-compartment w/ (5) 10 hp mud agitators
<b>Auxiliary Premix Pit</b>	(278 bbl) two-compartment w/ (2) 10 hp mud agitator
<b>Trip Tank</b>	(128 bbl) one-compartment w/ (1) 10 hp mud agitator
<b>Trip Tank Pump</b>	4x3x13 @ 30 hp / 1200 rpm
<b>Shale Shakers</b>	(3) Brandt King Cobra linear-motion
<b>Degasser</b>	NOV D-1000-C vacuum style
<b>Desander</b>	NOV 3-cone / 10"
<b>Desander Pump</b>	8x6x14 @ 100 hp / 1200 rpm
<b>Desilter</b>	NOV 20-cone / 4"
<b>Desilter Pump</b>	8x6x14 @ 100 hp / 1200 rpm
<b>Mud Mixing Pumps</b>	(4) 8x6x14 @ 100 hp / 1200 rpm

## STORAGE CAPACITIES

<b>Drilling Water</b>	1,000 bbl
<b>Diesel</b>	21,000 gallons

## TUBULARS

<b>Drill Pipe</b>	5" 19.50# G-105 5" 19.50# S-135 5" HWDP
<b>Drill Collars</b>	As needed for normal drilling ops

## PAD DRILLING (OPTIONAL EQUIPMENT)

<b>Rig Walking System</b>	Veristic Technologies Rig Walker rated @ 2.4MM lbs lift and X-Y-Z axis walking capability with full setback load
<b>Pad Capability</b>	(1) row of (15) wells on 10' spacing (1) row of (8) wells on 20' spacing (1) row of (5) wells on 30' spacing