



## HOISTING, ROTATING & PIPE-HANDLING EQUIPMENT

<i>Drawworks</i>	National 110-UE rated @ 1500 hp driven by (2) GE 752 DC motors rated @ 1000 hp
<i>Auxiliary Brake</i>	NOV DM336 water-cooled friction brake
<i>Rotary Table</i>	Rig Components RC-275 (27-1/2") independent hydraulic drive
<i>Traveling Block</i>	Veristic Technologies VT400-652 (400 ton)
<i>Top Drive</i>	Varco TDS-11SA (500 ton) rated @ 800 hp
<i>Iron Roughneck</i>	Varco ST-80
<i>Hydraulic Slips</i>	NOV PSF-01 Power Slip Frame
<i>Hydraulic Catheads</i>	Hi-Tech Model 1000
<i>Hydraulic Catwalk</i>	NOV PipeCat PC-5-47

## MAST & SUBSTRUCTURE

<i>Mast Design</i>	Veristic Technologies Rocket-C
<i>Height</i>	144'
<i>Load Rating</i>	800k# Static Hook Load (12 lines)
<i>Racking Capacity</i>	21,000'+ 5" DP / 930' 8" DC
<i>Substructure Design</i>	Veristic Technologies Rocket-C
<i>Floor Height</i>	23'
<i>Clear Height</i>	20'
<i>Load Ratings</i>	800k# Casing / 600k# Setback

## TRANSPORT

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

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

## POWER PACKAGE

<i>Engines</i>	(3) Cat 3512 rated @ 1476 hp
<i>Bi-Fuel</i>	Optional
<i>Generators</i>	(3) Kato 6P6-3150 rated @ 1204 kW / 1720 kVA / 0.7 pf
<i>SCR System</i>	NOV or Omron w/ (3) generator bays, (4) SCR bays, and (10) MCC sections

## BOP EQUIPMENT

<i>Annular</i>	Cameron 13-5/8" 5M T90
<i>Single Ram</i>	Cameron 13-5/8" 10M Type U
<i>Double Ram</i>	Cameron 13-5/8" 10M Type U
<i>Accumulator</i>	Cameron 7-station / 220 gallon
<i>Choke Manifold</i>	Cameron 4-1/16" 10M
<i>Mud/Gas Separator</i>	Ledet 4'OD x 20'L
<i>BOP Handler</i>	Veristic Technologies BHT-G6
<i>BOP Winches</i>	JD Neuhaus BH-40T (40 ton)

## MUD SYSTEM

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

## STORAGE CAPACITIES

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

## TUBULARS

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

## PAD DRILLING (OPTIONAL EQUIPMENT)

<i>Rig Walking System</i>	Veristic Technologies Rig Walker rated @ 2.4MM lbs lift and X-Y-Z axis walking capability with full setback load
<i>Pad Capability</i>	(14) wells on 10' spacing (8) wells on 20' spacing