

## T-80 NATIONAL 1320-UE

### TECHNICAL OVERVIEW

Rating	2,000 HP	1,491 kW
Hook load	1,000,000 lbs @ 12 lines	454 mt
Drilling depth theoretical	20,000 ft	6,096 m
Refurbished in 2015		

### MAST

Type	Pyramid Cantilever	
Height	142 ft	43.3 m
Base	25 ft	7.6 m
N.G.C	1,330,000 lbs	603 mt
Hook load	1,000,000 lbs	454 mt

### SUBSTRUCTURE

Type	Pyramid Swing-Up	
Height	31 ft incl. 5 ft pony base	9.5 m
Clear height	25 ft 6 in	7.77 m
Casing load	1,000,000 lbs	454 mt
Setback load	600,000 lbs	272 mt

### DRAWWORKS

Type	National 1320-UE	
Horsepower rating	2,000 HP	1,491 kW
Max. line pull	98,900 lbs	45 mt
Drilling line diameter	1 1/2"	38.1 mm
Auxiliary brake	Elmagco 7838	

### TOP DRIVE

Type	Bentec TD-500-HT	
Capacity	1,000,000 lbs	454 mt
Torque	46,000 ft.lbs	62,300 Nm

### ROTARY TABLE

Type	National C-375	
Table opening	37 1/2"	952.5 mm

### IRON ROUGHNECK

Type	Blohm & Voss "Floorhand"	
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### DRIVE GROUP

Engine type	Caterpillar 3512B	
Horsepower rating	5 x 1,476 HP	
Generator type	Caterpillar SR4	
Generator rating	5 x 1,500 kVA	
Voltage	600/440 V, 60 Hz	
SCR unit	Ross Hill Model 1400	

### MUD SYSTEM

Pump type	1 x National 12P-160 2 x Gardner Denver PZ-11	
Horsepower rating	3 x 1,600 HP	
Standpipe pressure	5,000 psi	345 bar
Shale shaker	3 pc, King Cobra	
Shale shaker type	linear motion	
Active mud system	1,890 bbl	300 m <sup>3</sup>
Reserve mud system	1,410 bbl	224 m <sup>3</sup>

### BOP EQUIPMENT

Diverter	29 1/2", 500 psi	
Annular	21 1/4" MSP, 2000 psi 13 5/8", 5000 psi	
Double	13 5/8", 10,000 psi	
Single ram	20 3/4" x 2, 3,000 psi 13 5/8", 10,000 psi	

### CAMP EQUIPMENT

Full rig and base camp