

## T-80 NATIONAL 1320-UE

### TECHNICAL OVERVIEW

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

### MAST

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

### SUBSTRUCTURE

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

### DRAWWORKS

<b>Type</b>	National 1320-UE	
<b>Horsepower rating</b>	2,000 HP	2,237 kW
<b>Max. line pull</b>	150,000 lbs	68 mt
<b>Drilling line diameter</b>	1 ½"	38.1 mm
<b>Auxiliary brake</b>	Elmagco 7838	

### TOP DRIVE

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

### ROTARY TABLE

<b>Type</b>	National C-375	
<b>Table opening</b>	37 ½"	952.5 mm

### IRON ROUGHNECK

<b>Type</b>	Blohm & Voss "Floorhand"	
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### DRIVE GROUP

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

### MUD SYSTEM

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

### BOP EQUIPMENT

<b>Diverter</b>	29 ½", 500 psi	
<b>Annular</b>	21 ¼" MSP, 2000 psi	
	13 ⅝", 5000 psi	
<b>Double</b>	13 ⅝", 10,000 psi	
<b>Single ram</b>	20 ¾" x 2, 3,000 psi	
	13 ⅝", 10,000 psi	

### CAMP EQUIPMENT

Full rig and base camp