

T-78 NATIONAL 1320 UE

TECHNICAL OVERVIEW

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

MAST

Type	Pyramid cantilever	
Height	152 ft	46.3 m
Base	25 ft	7.6 m
N.G.C	1,330,000 lbs	603 t
Hook load	1,000,000 lbs	454 t

SUBSTRUCTURE

Type	Pyramid swing-up	
Height	30 ft	9.1 m
Casing load	800,000 lbs	363 t
Setback load	500,000 lbs	227 t

DRAWWORKS

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

TOP DRIVE

Type	Varco TDS-11SA	
Capacity	1,000,000 lbs	454 t
Torque	37,500 ft.lbs	50,842 Nm

ROTARY TABLE

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



DRIVE GROUP

Engine type	Caterpillar 3512B	
Horsepower rating	5 x 1,476 HP	
Generator type	Caterpillar SR4	
Generator rating	4 x 1,500 kVA	
Voltage	600/440 V, 60 Hz	
SCR unit	Hill Graham	

MUD SYSTEM

Pump type	Wirth TPK-1600 Triplex	
Horsepower rating	3 x 1,600 HP	
Standpipe pressure	7,500 psi	517 bar
Shale shaker	Derrick Hyper Pool	
Shale shaker	3 pcs	
Active mud system	1,420 bbl	226 m ³
Reserve mud system	940 bbl	150 m ³

BOP EQUIPMENT

Annular	13 5/8" x 5,000 psi	
Double ram	13 5/8" x 10,000 psi	
Single ram	13 5/8" x 10,000 psi	

CAMP EQUIPMENT

Full rig and base camp
Bentec ACS Mark III