

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 ½" | 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 ½" | 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