



Rig 779

Heavy Duty, 2,000 HP

General Description

Design	Pyramid
Estimated drilling depth rating	20,000 ft (6,100 m)
Camp capacity	12 Contractor personnel
Estimated total rig move loads	110
Estimated total camp move loads	8

Mast

Type	Pyramid cantilever jackknife
Height	152 ft (46.3 m)
Nominal gross load capacity	1,000,000 lb (453,592 kg)
Static hook-load capacity	1,000,000 lb (453,592 kg) with 12 lines
Setback capacity	600,000 lb (272,108 kg)
Crown Block	Pyramid 7260, 1,543,000 lb, 7 x 60 in. sheaves for 1-3/8 in. drilling line

Substructure

Type	Pyramid box-on-box
Height	30 ft (9.1 m)
Clear height, rotary beam to ground	23 ft (7.0 m)
Casing capacity	1,000,000 lb (453,592 kg)
Setback capacity	600,000 lb (272,108 kg) simultaneous with 1,000,000 lb casing load

Drawworks

Type	National 1320-UE
Power rating	2,000 HP
Input power	2 x GE752 DC motors
Drilling line diameter	1-3/8 in.
Auxiliary brake	Elmagco 7838W
Max. Pull Capacity	1,000,000 lb (453,592 Kg) with 12 lines

Top Drive/Swivel

Type	National PS 350/500
Capacity	1,102,310 lb (500,000 kg)
Torque	34,425 ft-lb intermittent; 33,700 ft-lb continuous

Rotary Table

Type	National C-275
Table opening	27-1/2 in.
Drive type	Driven from drawworks

Engine

Engines	4 x Caterpillar D399, 1,215 HP each
Generators	4 x Kato, 1,050 kW each
SCR/DC-DC	Ross-Hill 5 bay SCR system.

* Based on 18,000 ft (5,486 m) of 5-in. drillpipe



Well Control

Diverter	None
Low-pressure annular	None
Low-pressure ram preventer	None
High-pressure annular	1 x Hydril GL, 13-5/8 in., 5,000 psi
High-pressure ram preventer	1 x Cameron Type U, 13-5/8 in., 10,000 psi single 1 x Cameron Type U, 13-5/8 in., 10,000 psi double
Choke-and-kill manifold	4 in. x 10,000 psi
Accumulator unit	Shaffer G T15160-3B 8 Station

Mud System

Mud pumps	3 x Oilwell A1700PT
Power rating	1,700 HP
Pressure rating	5,000 psi
Active mud volume	1,340 bbl
Reserve mud volume	400 bbl
Shale shakers	5 x Brandt scalpers (primary) 5 x Brandt LCM-2D
Desander	1 x Harrisburg, 3-cone
Desilter	2 x Harrisburg, 20-cone
Mud cleaners	Harrisburg, Doublelife, 24 x 3 in.
Sack storage capacity	Covered 500 sacks

Enhancements

Forklift	Caterpillar 966 G wheel loader with quick attach bucket and forks
Man Lift	Snorkel-lift
Skidding System	Lift-and-Roll skidding system with 400,000 lbs (181,440 kg) of setback at 0.75 ft/min.