



SHALEDRILLER 321

DRAWWORKS

1,500 HP American Block Drawworks powered by (1) 1,500 HP AC Motor

MAST AND SUBSTRUCTURE

Two (2) Section Mast: 142' Height, 750,000 lbs. Static Hook Load
Hydraulically Raised Substructure: 25' Height, 22'-6" Clear Height
Setback Capacity: 500,000 lbs.
Racking Capacity: 20,000' (5" Drill Pipe)
Fully integrated, omnidirectional "Walking" system

MUD PUMPS

(2) 1,600 HP Triplex Pumps - 7,500psi

ROTATING AND TRAVELING EQUIPMENT

500 ton NOV TDS-11SA Top Drive w/ 37,500 ft-lbs. torque @ 118 rpm
37-1/2" Rotary Table Independent Drive powered by (1) DC Motor
500 ton Traveling Block

B.O.P EQUIPMENT

BOP Handling System: Trolley Beam System w/ Hydraulic Winches
13-5/8" x 5,000 psi Annular
13-5/8" x 10,000 psi, Single Ram BOP
13-5/8" x 10,000 psi, Double Ram BOP
2-1/16" X 4-1/16" 10,000 psi Choke Manifold
(1) 6 Station Accumulator Skid

GENERATORS

(3) CAT 3512C Diesel Engines w/ (3) 1950 kVa Generator Sets

CONTROL SYSTEM

AC/VFD House
Climate Control Driller's Cabin w/ joystick controls



SHALEDRILLER 321 *(cont'd)*

MUD SYSTEM

- 1000 bbl. Pit System - 7,500 psi
- (3) Derrick Hyperpool Shale Shakers
- (1) Mud Gas Separator 1,200 gpm 48" diameter / 16' overall length

MUD MIXING EQUIPMENT

- (1) Chemical Mixing Hopper
- (1) Caustic Mixing System

LIQUID STORAGE

- (1) 440 bbl. Water Storage Tank
- (1) 400 bbl. Diesel Storage Tank

PIPE HANDLING EQUIPMENT

- (1) NOV ST-80C Iron Roughneck
- (1) Forum Hydraulic Catwalk

ELECTRONIC DRILLING RECORDING EQUIPMENT

- MD Totco Recording System and Equipment

DRILL PIPE

- 20,000' - 5" (S-135) 19.50# w/ NC-50 Connections
- (30) Joints - 5" HWDP

DRILL COLLARS

- (18) 6.5" w/ NC-46 Connections
- (6) 8" w/ NC-56 Connections

LIVING QUARTERS

- (1) Rig Manager Trailer
- (2) Twelve Person Crew Trailers
- (1) Change House—washer, dryer and crew lockers