



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 *(continued)*

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