



SHALEDRILLER 217

DRAWWORKS

1,500 HP ICD Drawworks powered by (1) 1,500 HP AC Motor

MAST AND SUBSTRUCTURE

ICD Hydraulically Raised Mast: 143' Height, 750,000 lbs. Static Hook Load

ICD Hydraulically Raised "Single Load" Substructure: 26' Height, 22'-5 3/4" Clear Height

Setback Capacity: 500,000 lbs.

Racking Capacity: 20,000' (5" Drill Pipe)

Fully independent, omnidirectional "Walking" system

Telescoping Flow Line custom engineered for multi-well walking applications

MUD PUMPS

(3) 1,600 HP Triplex Pumps - 7,500psi

(1) each 1,500 HP AC Motor

ROTATING AND TRAVELING EQUIPMENT

500 ton NOV TDS-11SA Top Drive w/ 37,500 ft-lbs. torque @ 110 rpm

27-1/2" Rotary Table Independent Drive powered by (1) Hydraulic Motor

(rotary not suited for drilling application "false rotary")

400 ton Traveling Block

B.O.P EQUIPMENT

BOP Handling System: Trolley Beam System w/ Air 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

(4) Cummins QSK50 Diesel Engines w/ (3) 1750 kVa Generator Sets

(4) Hythane Bi-Fuel (natural gas/diesel) package (1 per engine)

CONTROL SYSTEM

Precise (OMRON) VFD House

Climate Control Driller's Cabin w/ joystick controls



SHALEDRILLER 217 (cont'd)

MUD SYSTEM

- 1000 bbl. Pit System - 7,500 psi
 - (3) Derrick Hyperpool Shale Shakers
 - (1) Derrick 16 Cone Desilter
 - (1) Derrick 3 Cone Desander
 - (1) Derrick Vacu-Flo 1,200 Vacuum Degasser
 - (1) Mud Gas Separator 1,200 gpm 48" diameter / 16' overall length
- All solids Control Equipment mount on a one load hydraulically raised equipment skid*

MUD MIXING EQUIPMENT

- (2) Chemical Mixing Hoppers on a single skid
- (1) Caustic Mixing System

LIQUID STORAGE

- (1) 500 bbl. Water Storage Tank
- (1) 500 bbl. Diesel Storage Tank

PIPE HANDLING EQUIPMENT

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

ELECTRONIC DRILLING RECORDING EQUIPMENT

- MD Totco Recording System and Equipment

DRILL PIPE

- 22,000' - 5" (S-135) 19.50# w/ NC-50 Connections
- (51) Joints - 5" HWDP

DRILL COLLARS

- (18) 7" w/ NC-50 Connections
- (12) 8" w/ NC-56 Connections

LIVING QUARTERS

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