

NATIONAL T-20
Rig assembled and put into service in 2008

DRAWWORKS:

National T-20 single drum, Lebus grooved Parkersburg 22" double hydromatic brake, single engine compound, p/b Cat C-13 diesel engine (400hp) w/electric start, radiator, gauges, Oilworks C-105-125 torque converter, and Foster catheads. (drawworks reconditioned w/new bearings, clutches, brake bands, brake blocks, chains, brake flanges & linkage, new engine and torque converter in 2008). Mast and drawworks mounted on factory made tandem axle trailer. Mast & trailer rebuilt in 2008

MAST:

Lee C Moore Trailer Mounted 97'H X 300,000# GNC (210,000# static hook load). FREESTANDING scoping mast w/DERRICK racking board

SUBSTRUCTURE:

10'H "T" type w/back on ramp, rotary beams, & stairs, (2) 8'W x 28'L rig mats, 8'W x 30'L rig mat, (2) 8'W x 40'L rig mat

GENERATORS/UTILITY HOUSE:

Murphy 360KW generator: p/b Cat 3412 diesel engine, electric starter, radiator, gauges. Skid mounted. Air compressors: Ingersoll-Rand & Champion p/b electric motors. Mounted in 10'W x 40" utility house with transformer & electrical controls. (Murphy generator has less than 9 mos. Use since rebuild)

BBC 250KW generator p/b Cat 3408B diesel engine, w/electric start, radiator, gauges.

MUD PUMPS:

(1)Mudder MD-9, S/N 046 (GD PZ-9 design) triplex mud pump w/forged steel fluid end, Mudder pulsation dampener, 5" x 6" centrifugal charging pump, p/b Cat C27 (880hp) diesel engine, w/ air start, radiator, gauges, Prep model EMPB0800BODR/HC transmission, mounted on skidded pump house. (Pump has been re-bearinged with American bearings & both pump and engine were new in 2008)

(1) Oilwell 218P duplex , API-8 forged steel fluid end, w/quick change caps, pulsation dampener, type D mud gauge p/b Cat D-353 (330hp) diesel engine w/air start, radiator, gauges, drive assembly, skidded and mounted on covered skid.

ROTATING/TRAVELING EQUIPMENT:

IDECO 20 1/2" x 44" rotary table w/split master bushing.

4 1/4" x 35'L square kelly

National-Ideal Type F 150 ton Swivel w/Varco drive bushing

Upper and lower kelly valves

McKissick (4) sheave 150 ton block/hook combination w/BJ Unimatic 6150 hook

(2) 2 1/4"x72" elevator links

BOP/WELL CONTROL EQUIPMENT:

Shaffer type E 11" 3000# double gate

Myers 3 station closing unit w/120 gallon hydraulic tank, (8) accumulators, air operated hydraulic pump, triplex hydraulic pump p/b electric motor, mounted in generator house (New in 2008)

Remote closing unit mounted in doghouse (New in 2008)

3000 psi choke manifold w/4-way cross, 3 1/8" gate valve, (3) 2 1/16" gate valves, (2) adjustable chokes, skidded.(New in 2008)

MUD SYSTEM:

550 Barrel capacity-2 tank

Tank #1: 6'H x 8'W x 50'L mud shaker tank w/8'W x 5' pump room, SPD 5" x 6" centrifugal pump p/b 50HP electric motor, (4) compartments, top-mounted walkways, chemical hopper with internal plumbing, Brandt style linear motion shale shaker p/b (2) Virmac vibrator motors, 2-cone desander, 8-cone desilter, skidded. (shale shaker, centrifugal pumps & motor new in 2008. Desander & desilter rebuilt w/ new cones, tank rebuilt w/new walkways, and internal plumbing)

Tank #2: 6'H x 8'W x 22'L mud suction tank w/6'L hopper room, MCM 5" x 6" centrifugal pump p/b electric motor, (3) compartments, (38 bbl pill tank) top mounted walkways, internal plumbing (tank reconditioned 2008 w/new gates, internal plumbing, walkways & stairs)

RIG HOUSES:

8'W x 26'L top doghouse w/ knowledge box, bench storage, and lockers

Alta Fab 12'W x 38'L tool pusher's house w/kitchen, living area, (1) bedroom, office, fully furnished, and skidded, Rebuilt in 2008

WATER/FUEL TANKS:

8'H x 8'W x 38'L 430 BBL capacity water tank w/14'L pump room/parts room. Mission Magnum 3" x 4" & 2" x 3" circulating pumps, each p/b 20HP electric motor, Cat triplex pressure washer.

8'H x 22'L 8000 gallon fuel tank w/ (2) explosion proof fuel pumps, each p/b 5HP electric motors.

5 compartment oil bunker

HANDLING TOOLS:

(2) type B rotary tongs w/complete set of tong heads

Rough Mfg air/hydraulic pipe spinner

(1)WTM 4 1/2" drill pipe elevators

(1)Varco 4 1/2"drill pipe slips

(1)Varco 6"drill collar slips

(1) Varco 8" drill collar slips
(9) drill collar lift subs 4 1/2" XH
(2) drill collar lift subs 6 5/8" Reg
(4) assorted X.O. subs
Ingersoll-Rand air hoist

AUXILLARY EQUIPMENT:

Martin Decker Clipper-type weight indicator
3 1/2" ID X 60' rotary hose, 5000# rated
9', 12', & 15' X 3 1/2" ID vibrator hoses, 5000# rated
5'W x 40"H x 40'L catwalk w/V-door
(4) 8'W x 36'L pipe baskets

Five Star hydraulic/electric wireline measuring device New in 2008
Vapor proof rig lighting New in 2008
Approx. 3000' 1" drill line
Assorted hand tools, rig parts, spares, and fire extinguishers necessary for drilling operations

DRILL PIPE & COLLARS:

4929' (158 JOINTS) 4 1/2" X 16.60#, Range 2 Grade E drill pipe w/4 1/2" XH tool joints,
(10) 6" to 6 1/4" OD x 2 1/4" ID x 30'L drill collars New in 2008
(2) 8" OD x 2 13/16 id approx. 30'L spiral drill collars
(2) sets of (4) triangular pipe racks

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