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***Aero Drilling & Consulting Equipment Specifications
for Rig #4***

2003 Ingersoll-Rand T3-W Drill:

Carrier

2004 Western Star twin steer, tridem axle tractor
powered by a Detroit engine @ 500 H.P.

Power pack

C-15 Caterpillar Deck engine 565 H.P. @ 1800 RPM
I-R Compressor 1070 CFM/350psi

Generator

75kw Detroit light plant mounted on rig deck

Derrick

Rated Capacity 45,000 lb.
55 ft long fully capable of handling range 3 casing

Rotation

2-speed Top Drive
6,250 ft-lb @ 0-128 RPM
4,650 ft-lb @ 0-175 RPM

Feed System

Pulldown 30,000 lb.

Pullback 26,500 lb.
Drill feed rate 0-20 fpm
Fast feed rate up 0-137 fpm

Hydraulic Drawworks

Lifting Capacity 12,000 lb.
Line Speed 0-150 fpm
Jib Boom Rating 18,000 lb.

Pason

Rig is fully equipped with Pason

Catwalk:

Carrier of Catwalk

Western Star winch tractor powered by a Cummins engine 444 @ 440 H.P.
Mechanical winch of 60000 lb capacity

Trailer

53 ft tri-axle trailer equipped with 10 ft pipe racks and fuel tank
Useable length of catwalk is 42 ft capable of range 3 casing
6000 lb hydraulic winch is used to pullback drill collars

Fuel Tank

1500 gallon fuel tank to supply Rig

Mud Pump/Pump House/Water Tank:

Carrier

1998 Western Star tractor powered by a Cummins engine 444 @ 440 H.P.

Trailer

53 ft tri-axle trailer
Mud Tank/Pump House/Water Tank are mounted on trailer

Mud Pump

Gardner- Denver 7" x 10" Mud Pump hydraulically driven
Displacement of 487 GPM

Mud System

20 cubic mud tank with shaker
Tank is divided into 3 sections
Shaker tank with sand trap, settling tank, suction and trip tank

Mixing Pump

5" X 6" mission magnum mixing pump driven by a 20 H.P. electric motor

Pressure Washer

Cat Pump 25 G.P.M. driven by a 10 H.P. electric motor

Shaker

DFTS 275 XG Shaker

Water Tank

1500 gallon water tank to supply rig

Accumulator/Generator/Dog House-Tool House

Carrier

1990 International Tractor powered by a Cummins engine 444@440 H.P.

Trailer

53 ft tri-axle trailer
Accumulator/Generator/Dog House-Tool House mounted on trailer

Accumulator

60 gallon accumulator electrical hydraulic, class 1-A through class 3 system

B.O.P.

B.O.P. is a class 1A through class 3 system

Generator

100 kw John Deer Light Plant

Dog House – Tool House

Equipped with Pason
Fully equipped with lockers for 3 four men crews
Tool House is fully equipped with tools and supplies

Tool Push Shack

Trailer Mounted
Equipped with Pason
Living quarters/office area

Substructure

47 Foot Long X 4 Feet High
Self Loading Ramp
Adjustable work floor with full length walk ways on each side of substructure

Picker Truck:

Carrier and Picker

2000 Freightliner powered by a C-12 caterpillar engine @ 400 H.P.
18 Ton Weldco Hydra Lift picker

Water Truck:

Carrier and Tank

2004 Western Star truck powered by a Mercedes engine @ 475 H.P.
Truck is equipped with a 100 barrel tank and spray bar

Vacuum Truck:

Carrier and Tank

2004 Freightliner powered by a C-15 caterpillar @ 475 H.P.
Truck is equipped with an 85 barrel tank and agitator
Truck is also equipped with the tireboss system to minimize ground disturbance while spreading