



Eagle Rock Drilling, Inc. 1113 Dayton Road, Midland, Texas 79706-3806

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# **AGGRESSOR™**

## **TOP DRIVE DRILLING RIG**

In response to the demand for a safer, more efficient drilling rig based on the latest technology, Eagle Rock Manufacturing is introducing the AGGRESSOR drilling machine to the U.S. and world markets. Eagle Rock Drilling, Inc. believes that the AGGRESSOR drilling machine is a significant advancement in drilling technology. This drilling rig is ideal for exploiting oil and gas resources above 11,000 feet

The AGGRESSOR drilling rig is a 300,000 lb. capable, trailer mounted hydraulic top drive rig which has been thoroughly engineered utilizing new technology.

The AGGRESSOR top drive drilling rig represents a new generation of highly mobile, hydraulic top drive drilling rigs. Prominent features of the AGGRESSOR include:

- 1) 300,000# rated, 70'6" C-Box Derrick allows handling of range 3 tubular products (casing as well as drill pipe). The derrick is pinned to the rig trailer for transport and is hydraulically raised and lowered.
- 2) Custom built gooseneck trailer with integral 10' drilling floor. All necessary rig power is located on the rig floor along with the drawworks and all hydraulic lines and reserve tanks. The trailer also features dual rear axles mounted on a leveling trunion and two independent air ride, air lift axles to allow the load to be evenly distributed on the 4 axles. The air lift axles may be retracted for maneuverability on small drilling locations.

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- 3) Patented “EVEN REEVING” drawworks, crown, and traveling assembly eliminates spooling errors. The drawworks utilizes state of the art air operated and air cooled disc brakes which lock down in the event of air pressure loss on the rig along with a Wichita water cooled brake.
- 4) Patented “clamping mechanism” for pipe handling.
- 5) Field replaceable “Hydraulic Module” allows the entire rig hydraulic valve system to be replaced, if necessary, without a time consuming search for “the failed valve”. This feature is significant in the event the rig is at a remote location with limited technical support.
- 6) Patent pending automatic drilling system.
- 7) Hydraulic pipe handling boom transports the pipe from horizontal to vertical allowing the pipe to be racked or stored horizontally. This eliminates the need for a derrick man during tripping operations. The boom utilizes patented self-centering jaws capable of handling tubulars from 2 7/8” up to 13 3/8” without alteration or insertion of spacer blocks.
- 8) Eagle Talon Grip™ (hydraulic makeup/breakout wrench) eliminates the need for tongs and their associated catheads and chains. The top drive is used to “spin up” the joint and the Eagle Talon Grip is then engaged to apply the correct torque.
- 9) 150 ton derrick mounted top drive unit is powered by an independent 350 Hp Caterpillar C9 engine with a variable displacement hydraulic pump. The engine, pump and hydraulic storage reservoir for the top drive are mounted on the rig floor and remain continuously connected during rig moves. This environmentally friendly feature eliminates the risk of hydraulic fluid contamination and dramatically increases system reliability.

- 10) Both the main rig power and the top drive power are state of the art Caterpillar Tier III low emission, low noise engines allowing the rig to be utilized in a sensitive environment with a minimum of disturbance due to rig engine noise.

The above features combined with a much smaller footprint than that needed by a comparable conventional rig make the AGGRESSOR drilling rig an environmentally friendly option for drilling in either urban or heavily forested areas.

The AGGRESSOR rig has a hydraulic pipe handling boom and hydraulic torque wrench (Talon Grip) which allows for safely operating the rig with a 2 person crew. During tripping operations, no one is in the derrick. Derrick man accidents account for 16% of the world wide lost time incidents and 15% of the world wide recordable incidents (according to the IADC ASP Report for 2005). Elimination of the need to put someone in the derrick results in a much safer operation. Further, the Talon Grip eliminates the need for tongs and spinning chains which account for another 9% of the LT and recordable incidents.

In summary, the environmentally friendly Eagle Rock AGGRESSOR Drilling Rig is a thoroughly updated and engineered hydraulic top drive rig which is quicker to move and safer to operate than conventional drilling rigs. The AGGRESSOR drilling rig is “The Rig” for today’s oilfield.

**The Aggressor™ rig is protected in the United States under issued patents Nos. US 7,178,788 B1 and US 7,197,963 B1 and pending US Patent applications with rights pending in over 30 foreign countries. All trademarks used herein are the property of Eagle Rock Manufacturing, LLC.**