

Electric driven fracturing skid energy storage device

What is electric drive fracturing equipment?

Compared with conventional diesel-drive fracturing equipment, the electric drive fracturing equipment is more advantageous for its high efficiency, low cost, safety and energy saving, meeting the requirements of "cost reduction and environmental protection" in shale gas fracturing operations [11].

What technology determines the performance of electric drive fracturing equipment?

Then,electric drive,the key technology that determines the performance of electric drive fracturing equipment,is investigated,and the characteristics of high-power AC frequency conversion technology and the adaptability of different types of technology to electric drive fracturing equipment are analyzed.

Which electric drive fracturing equipment is used in China?

This technology is most widely used in electric drive fracturing equipment in China now. The supporting equipment includes the Baoji Petroleum Model 3000 split and Model 7000 electric fracturing skids, and the Honghua Petroleum Model 6000 electric fracturing skid.

What is fracturing equipment?

Fracturing equipment is the core device in shale gas reservoir stimulation. As domestic shale gas exploration and development steps into deep layers,the development of fracturing technology puts forward higher requirements for relevant equipment. Electric drive is an important development direction of fracturing equipment technology.

Can electric drive fracturing equipment be used in field application analysis?

No comparative test has been reported on electric drive fracturing equipment with the same power as traditional diesel drive fracturing truck. To this end,the Baoji Petroleum Model 2500 electric drive fracturing truck is used as an example in field application analysis.

Which fracturing equipment is used for shale gas development?

Thus,the electric drive fracturing equipment for shale gas development in North America is mainly structured with "double-pump +semi-trailer",and the mature 2000-3500 hp (1 hp = 0.7355 kW,similarly hereinafter) fracturing pump,which has been fully verified on diesel drive fracturing equipment,is adopted [12].

The utility model provides an electrically driven fracturing energy storage system which comprises electrically driven fracturing equipment and an energy storage device, wherein...

Electric-Driven Fracturing Skid . ADD TO WISHLIST. Overview. High single-unit power and pressure, meeting the efficient development requirements of shale oil and gas. Direct-drive single motor system, high efficiency, low ...

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Electrical fracturing is the latest technique to replace traditional diesel-driven systems with direct variable speed drives. In 2019, Honghua released their first 6000HP ...

A lubricating system and high-power technology, applied in the direction of engine lubrication, lubricating parts, lubricating oil control valves, etc., can solve the problem of fracturing skid ...

The invention relates to the drilling technology of petroleum and natural gas, in particular to an electrically driven fracturing sand mulling skid, which comprises a sand mulling device, ...

Adhering to the concept of the overall development of electric fracturing and taking 6000HP electric fracturing pump as core equipment, Honghua launched numerous complete ...

CAFS Compressed Air Foam Systems are self contained stored-energy fire suppression units which have the added ability to inject compressed air into the foam solution to generate a powerful fire attacking and suppression ...

After the adaptability of the high-power frequency conversion technology to electric drive fracturing equipment was analyzed, based on the fracturing operation of Model 2500 electric ...

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Our Ideal(TM) eFrac fleet provides the advanced fracturing technology you expect from NOV while dramatically reducing harmful emissions and making a substantial impact on your total cost of ownership. ... enhanced process ...

Data-driven design of carbon-based materials for high-performance flexible energy storage devices ... More importantly, the FSC can maintain working stability under extreme conditions ...

1. An electric fracturing operation system, comprising a fracturing device, a water storage device, a blending device, a sand mixing device, a fluid preparing tank and a sand storage and ...

Fracturing equipment is the core device in shale gas reservoir stimulation. As domestic shale gas exploration and development steps into deep layers, the development of fracturing...

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The invention discloses an energy storage device of an electric fracturing gas generator and a control method, the device comprises a primary pressure regulating pry (22), a secondary ...

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Electric drive is an important development direction of fracturing equipment technology. In this paper, the technical progress of electric drive fracturing equipment in China ...

In order to adjust the speed and displacement of the fracturing skid, the existing electric-driven fracturing equipment is driven by setting a variable frequency motor, and the speed and ...

The utility model provides an electrically driven fracturing energy storage system which comprises electrically driven fracturing equipment and an energy storage device, wherein the input ends ...

Compact skid-mounted structure with small footprint and low center of gravity, enabling quick and safe transportation. . Direct-drive single motor system, high efficiency, low noise, and low energy consumption. .

A fracturing and unit technology, which is applied in earth-moving drilling, fluid production, wellbore/well components, etc., can solve the problems of large floor space and high cost, ...

Pumped hydro energy storage (PHES) is a resource-driven facility that stores electric energy in the form of hydraulic potential energy by using an electric pump to move ...

The invention further provides an electric fracturing pry. According to the fracturing pump transmission system and the electric fracturing pry disclosed by the invention, the motor and ...

energy storage electromotive machine storage system electrical energy Prior art date 2019-04-26 Application number PCT/US2019/041948 Other languages English (en) French (fr) Inventor ...

Truck, trailer and skid-mounted designs are in place and various customer specified tank sizes are possible. We also offer Batch Mixing Units as truck, trailer and skid-mounted unit. ... hydraulic and electrical devices; Storage racks for ...

electric fracturing skid is a fracturing equipment featuring the world's largest single-pump output power (Fig. 3). The Model 2500 electric drive fracturing truck adopts the

Energy Storage Solution. Delta's energy storage solutions include the All-in-One series, which integrates batteries, transformers, control systems, and switchgear into cabinet or container solutions for grid and C& I applications. The ...

energy storage technologies that currently are, or could be, undergoing research and development that could directly or indirectly benefit fossil thermal energy power systems. o ...

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2019, Jereh introduced the world's first complete set of electric fracturing equipment. 2019, the world's first 7000hp electric fracturing skid of Jereh successfully came off the assembling line. 2022, Jereh offered CNPC's ...

The utility model discloses a double-layer electric-driven fracturing skid-mounted device, which comprises a skid frame, a power system, a fracturing pump, a control system, a lubricating ...

Electric energy storage is currently the primary solution for addressing the intermittency and fluctuation of renewable energy sources. Traditional energy storage methods ...

Jereh fracturing unit has Truck / Trailer / SkidJereh self-developed Apollo 4500 turbine-driven frac pumper is powered by the turbine engine. Possessing the world's largest single-unit power, it matches with a 5,600hp turbine engine and ...

The single-vehicle power of the high-power electric-driven fracturing equipment (5000âEUR"7000 type) is more than 2 times higher than that of the 2500-type die- sel-driven ...

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