

FLUID END EXPENDABLES

Solution to Your Challenges

The oil and gas drilling industry continues to be big business, but it is not without its challenges. What are some of these challenges and how can Utex provide you with innovative and cost-effective solutions to increase productivity and your company's bottom line?

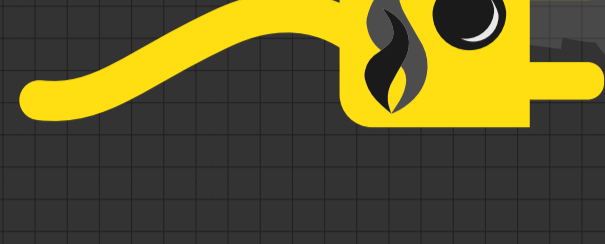
The Oil & Gas Industry Continues to Thrive

2015 oil and gas industry revenue of

\$129.8 billion

The U.S. oil and natural gas industry supplies more than

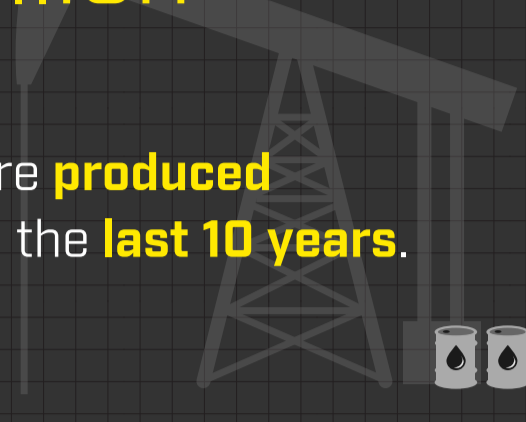
65% of America's energy.



On average,

2.017 billion barrels

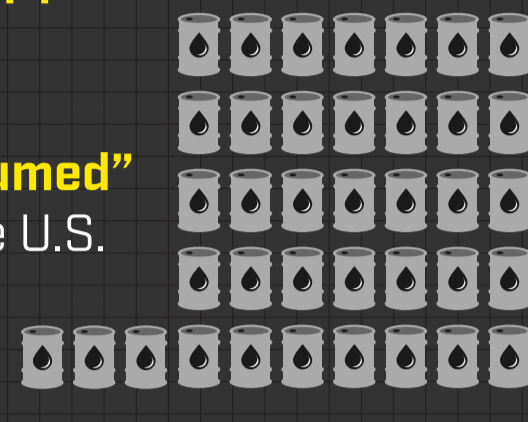
of crude oil were **produced** domestically in the **last 10 years.**



On average,

7.3 billion barrels

of oil are **"consumed"** each year in the U.S.



At least

2 million of the more than 4 million

oil and gas wells in the US have been hydraulically fracture-treated

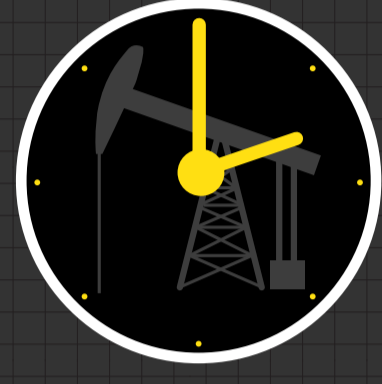


Domestic production of crude oil up over

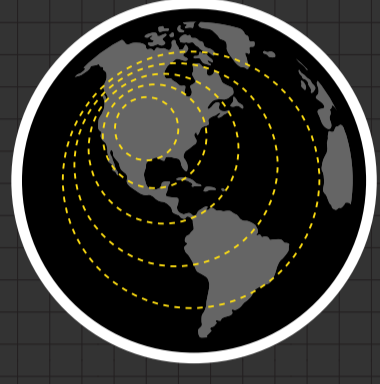
80%



Oil & Gas Industry Trends



Existing fields will operate longer and their yield will be increased.



Extraction methods such as hydraulic fracturing will expand outside of the US.



The production of heavy oil from oil sands will become more environmentally friendly and less energy-intensive.

Common Issues During Oil Drilling & Collection

Equipment challenges/failure

- Pipe sticking or failure
- Lost circulation
- Borehole instability
- Abnormal pressure or changes in pressure
- Geologic conditions
- Metal erosion reducing component lifetime
- Urethane separation from valve during use
- Lessened lifetime due to use of multiple brands of components
- Equipment and component failure leads to product volume loss and in turn profit loss



Leaks & Spills

- Typically caused by equipment failures
- Product, time, and profit loss
- Potential environmental damage
- Costly fines and liability

Operator error

- Failure to properly inspect and repair equipment
- Incorrect installation or replacement of drilling/valve components
- Operator complacency

FLUID END EXPENDABLES

Benefits of high quality fluid end expendables:

- Help pumping systems achieve and withstand higher operating pressures
- Reduce vibration
- Lower operating expenses
- Improve efficiency

Ideal characteristics of high quality fluid end expendables:

- Made with highly durable materials to reduce erosive effects and fatigue cracking
- 100% urethane to metal bond
- Modular assemblies
- Proper fit

Tips for extending your fluid end expendables life:

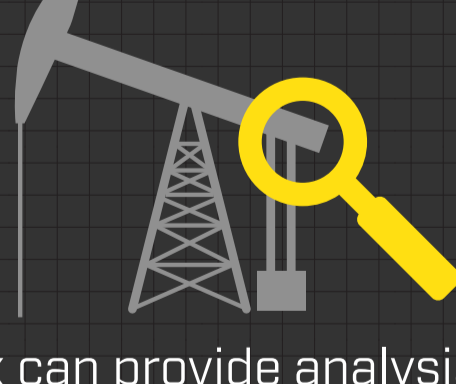
- Inspect for damaged or worn parts after each job
- Wash fluid ends to remove any remaining sediment
- Examine stay rods and tie bars for suitable torque compressions
- Keep accurate records and data for the total rate pumped



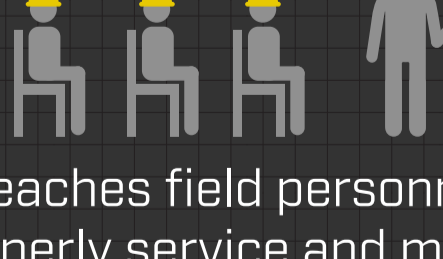
YOUR CUSTOM SOLUTION



Our ability to design custom solutions has given us a reputation as innovators worldwide.



Utex can provide analysis of current operation and solutions to chronic issues.



Utex teaches field personnel how to properly service and maintain fluid ends to extend life and maximum performance in high pressure pump applications.



Utex sales teams are easily deployable to a drilling/frac site to teach field personnel proper installation that will extend the life of the fluid ends or expendables being installed.

UTEX's fluid end expendables include:

- Packing
- Urethane Bonded Valves & Seats
- Seals & Gaskets
- Core-X Plungers
- Core-X Pony Rods
- Core-X Suction Manifolds
- Tools & Service – plunger installation, plunger separators, seal installers, and seat pullers

UTEX
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Leader In Fluid Sealing Industry

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