

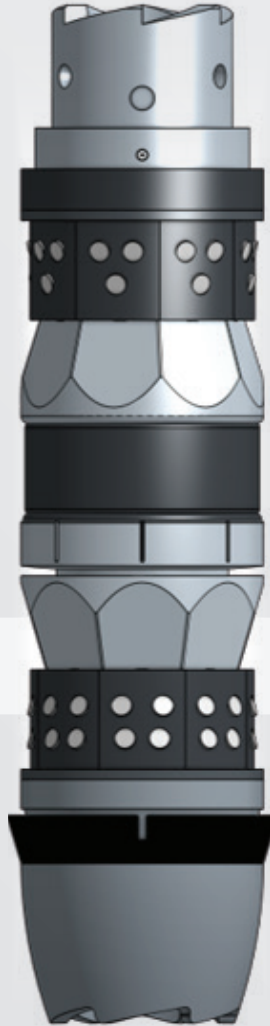
Nighthawk[®] Frac Plug

Reliable. Repeatable. Results-Driven.

With over 80 years of combined composites experience built in, the Nighthawk is the most efficient frac plug on the market.

Using proprietary winding methods and molded materials, our plugs are engineered for enduring dynamic frac pressures and well conditions while providing superior drill outs. This innovative design produces the finest cuttings that flow out of the well with ease.

Our products are designed and manufactured in Houston, TX by the industry's original composite frac plug co-creator.



DESIGN

HIGHLIGHTS

- Fully composite
- Highest preset prevention available
- Compact construction
- Water saving design

FEATURES

- Independent self-guiding slips
- Integrated preset prevention on each slip
- 360° self-centering clutch system
- Optional pumpdown ring
- Quick Latch Connection

Patents pending

RUN OPTIONS

- Ball in-place
- Ball drop
- Pump down rings are standard in black
- We also offer pump down rings in red

Casing Size	Weight Range (lbs)	Plug OD	Min Casing ID	Max Casing ID	Max Temp (F°)	Max Pressure (PSI)	Plug ID	Plug Length
5.5"	17-23	4.38"	4.670"	4.975"	275°	10,000	1"	18.5"
5"	18-21.4	3.88"	4.126"	4.360"	275°	10,000	1"	16.5"
4.5"	Specifications Coming Soon							

*Max Temp (F°) Options up to 325°

MAKE BETTER WELLS

TALLY ENERGY SERVICES

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TALLY

Nighthawk® Frac Plug Improvements

The Risks	The Fix	The Results
Tool Setting Reliability, Lost Pressure Seals	Engineering Controlled Setting Sequence	No Presets No Lost Seals
Slow Drill Outs & Inconsistent Cuttings	Fully Composite, Consistent Material	Consistent Drill Outs & Sweep Efficiency
Inefficient Pump Down	Flexible, Safe Pump Down Ring Options	Efficient Pump Down
Low & Slow Visibility of Field Operations	PlugStream: RT Remote Monitoring	Better Plug Performance & Customer Service



Tally QuickLatch

The Tally QuickLatch system enables consistent, repeatable plug mounting connections that eliminate the soft-sets and poor plug performance that are often the result of plugs mounted inconsistently in the field.

- One piece system
- Factory installed shear pins
- Factory built and deployed
- Field mounted in under 5 seconds
- Simple process, no training required
- No alignment problems – ever

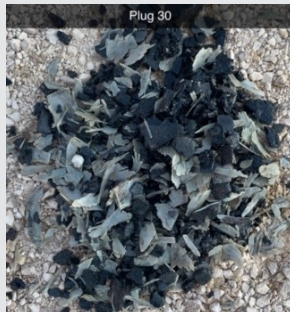
Pump Down & Drill Out Competition

Side-by-Side Comparison

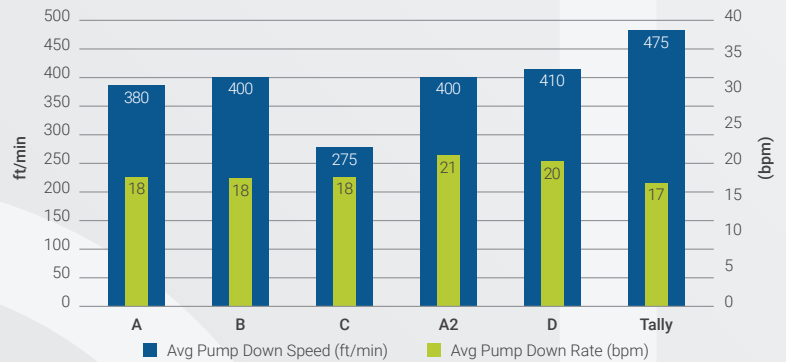
Prominent Permian Operator conducted a side-by-side plug study with several different frac plug providers over a series of pads. The plugs were evaluated on:

- Unit Cost
- Pump Down Rate
- Total Volume Pumped & Total Time
- Drill Out & Sweep Efficiency

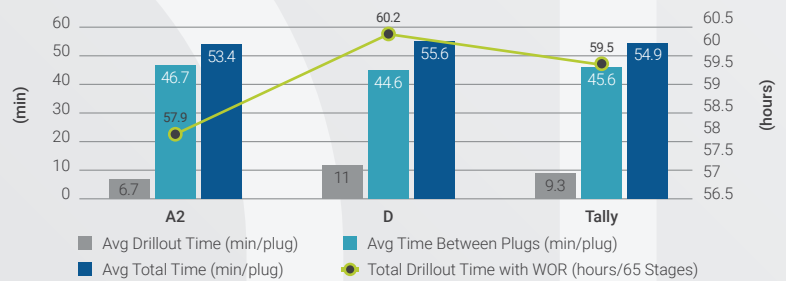
Nighthawk was the Top Performer



Pump Down Data



Drill Out Data



Reliable. Repeatable. Results-Driven.

Product Highlights:

- 100% Texas made composite frac plug, manufactured in-house for reliability and quality control
- 10,000+ successful runs
- Engineered preset prevention with multiple built-in redundancies
- Pump down at 700 FPM with only 14-16 BPM, reducing wasted fluid
- Yields dime to quarter sized drill cuttings for optimal sweep efficiency
- Factory installed QuickLatch plug mounting system standardizes field connections
- Top rated plug during multiple side-by-side comparison tests
- PlugStream provides real-time ops visibility
- Nighthawk Talon frac ball retrieval system

QUALITY TEXAS MADE TOOLS

