

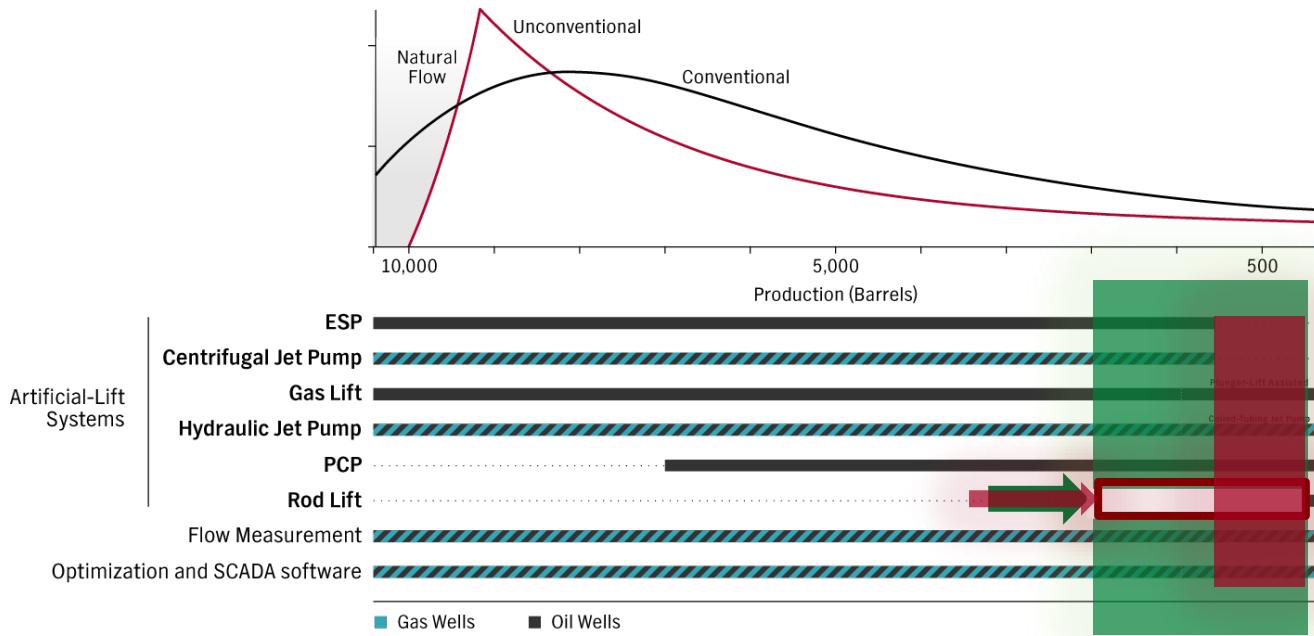


ROTAFLEX®

Long-Stroke Pumping Units



ROD LIFT IS A KEY PART OF OUR HIGH-FLOW SOLUTIONS



MISCONCEPTION
Rod lift is for end-of-life production

REALITY
Our Rod-lift solutions
match the productivity
of a small ESP

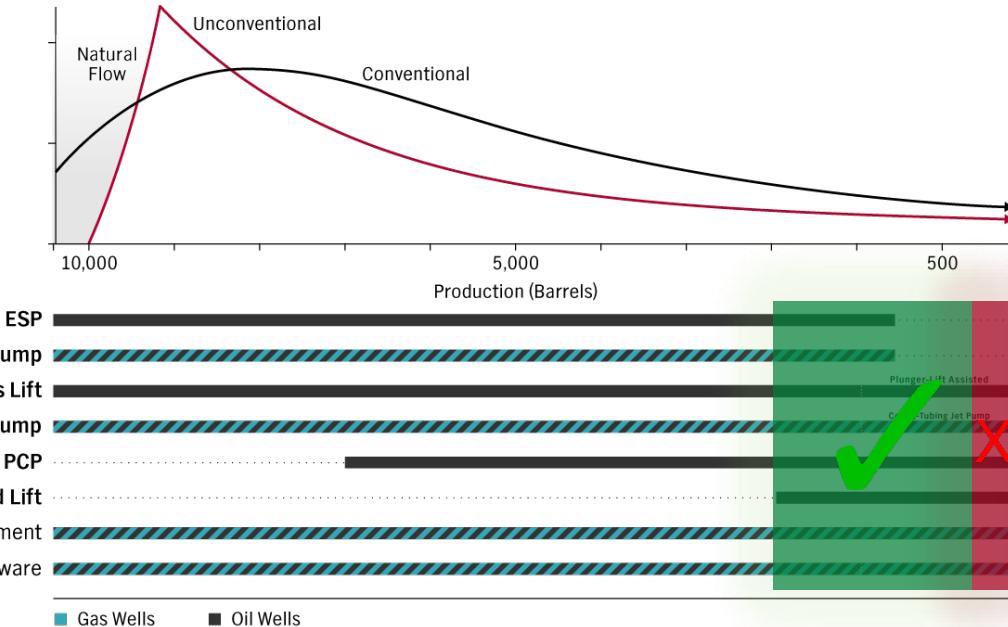
- Customers can now switch to rod lift now sooner than ever **WITHOUT** compromising production.



New Opportunity Identified...

Artificial-Lift Systems

Optimization and SCADA software



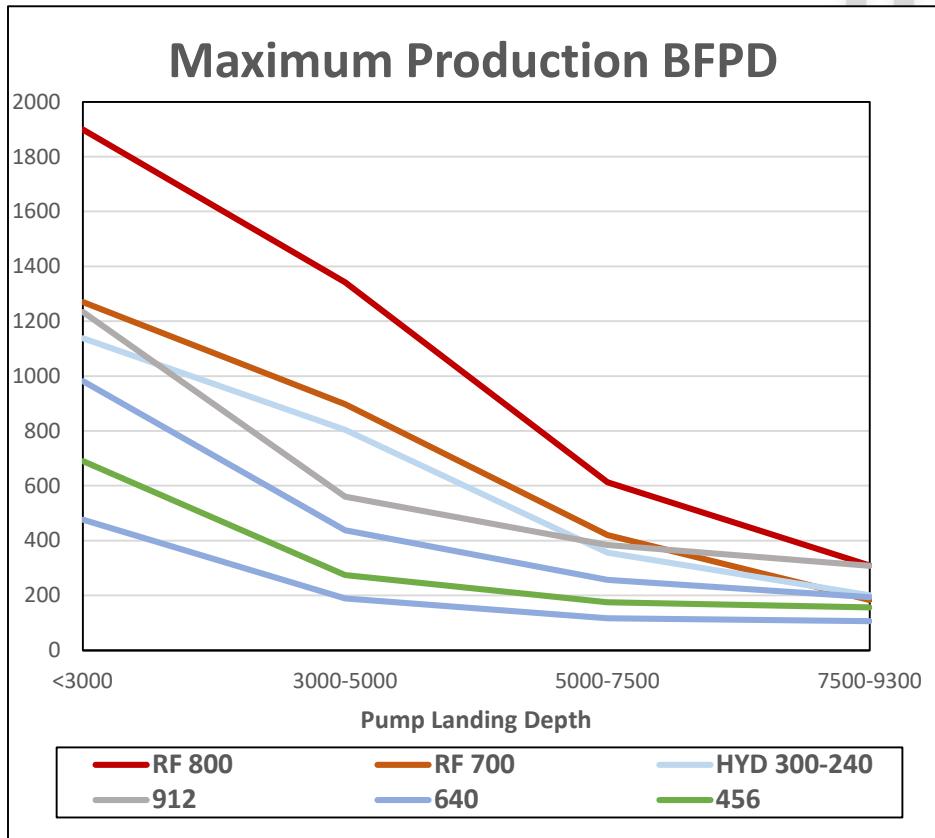
- Customer A (South Texas):
 - “I love the long stroke benefits and increase in production, but my electricity costs get high as the well declines.”
- Customer B (MidCon):
 - “I want the Rotaflex benefits, but my wells are too shallow to justify that size of unit.”
- Customer D (Permian):
 - I only use size 320, 640, or 912 units because I want the stroke length. My units are not that loaded up at all.

- We now have the ONLY long stroke unit design that is optimal for ALL rod lift well sizes.



Introducing: Rotaflex 700 & Rotaflex 800

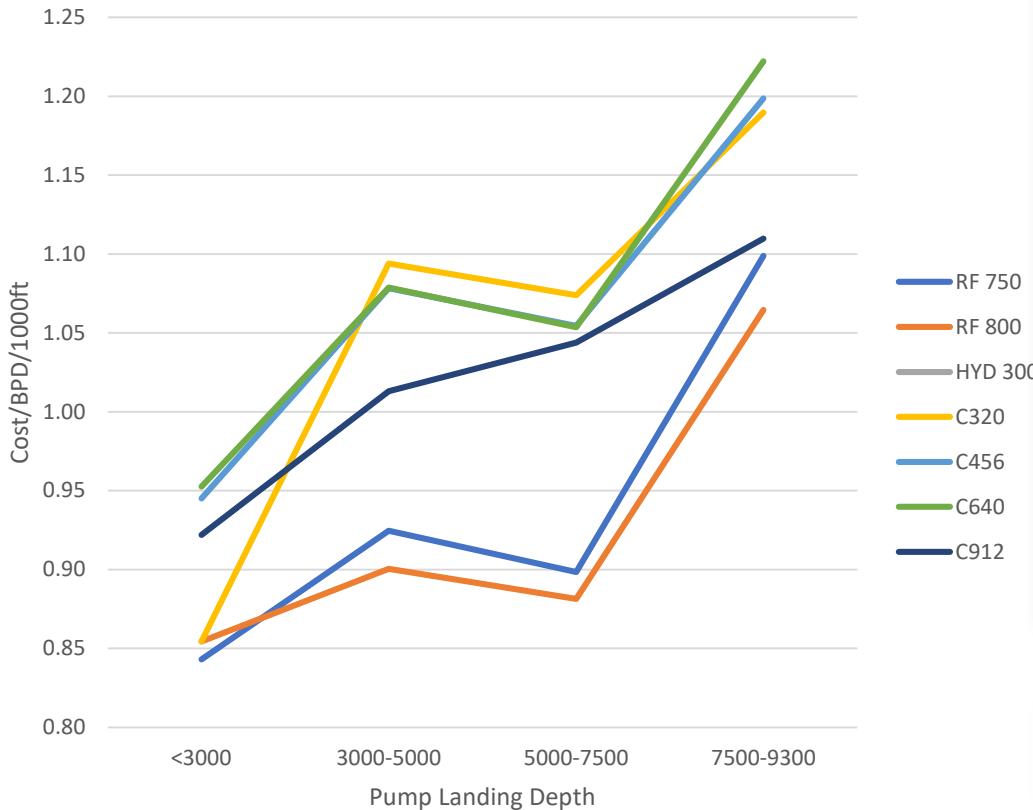
- Rotaflex 700 Specs:
 - Gear Reducer: 250,000 in-lbs
 - Stroke Length: 236"
 - Structural Capacity: 26,400 lbs
- Rotaflex 800 Specs:
 - Gear Reducer: 250,000 in-lbs
 - Stroke Length: 288"
 - Structural Capacity: 30,800 lbs
- Why customers care:
 - 3rd Party, Industry standard software + field results show up to 6X production versus standard beam units



Electrical Question

- Customer: “What about my electricity costs? I am concerned if I increase my production like that, then there is a catch.”
- Answer: “We have seen in the field and can show via 3rd party software up to 30% decrease in electrical costs while producing up to 6x what a beam unit can.”

Monthly Cost/BPD/1000ft of Lift Comparison



2019

THE ULTIMATE ROD-LIFT SYSTEM

TRANSITION

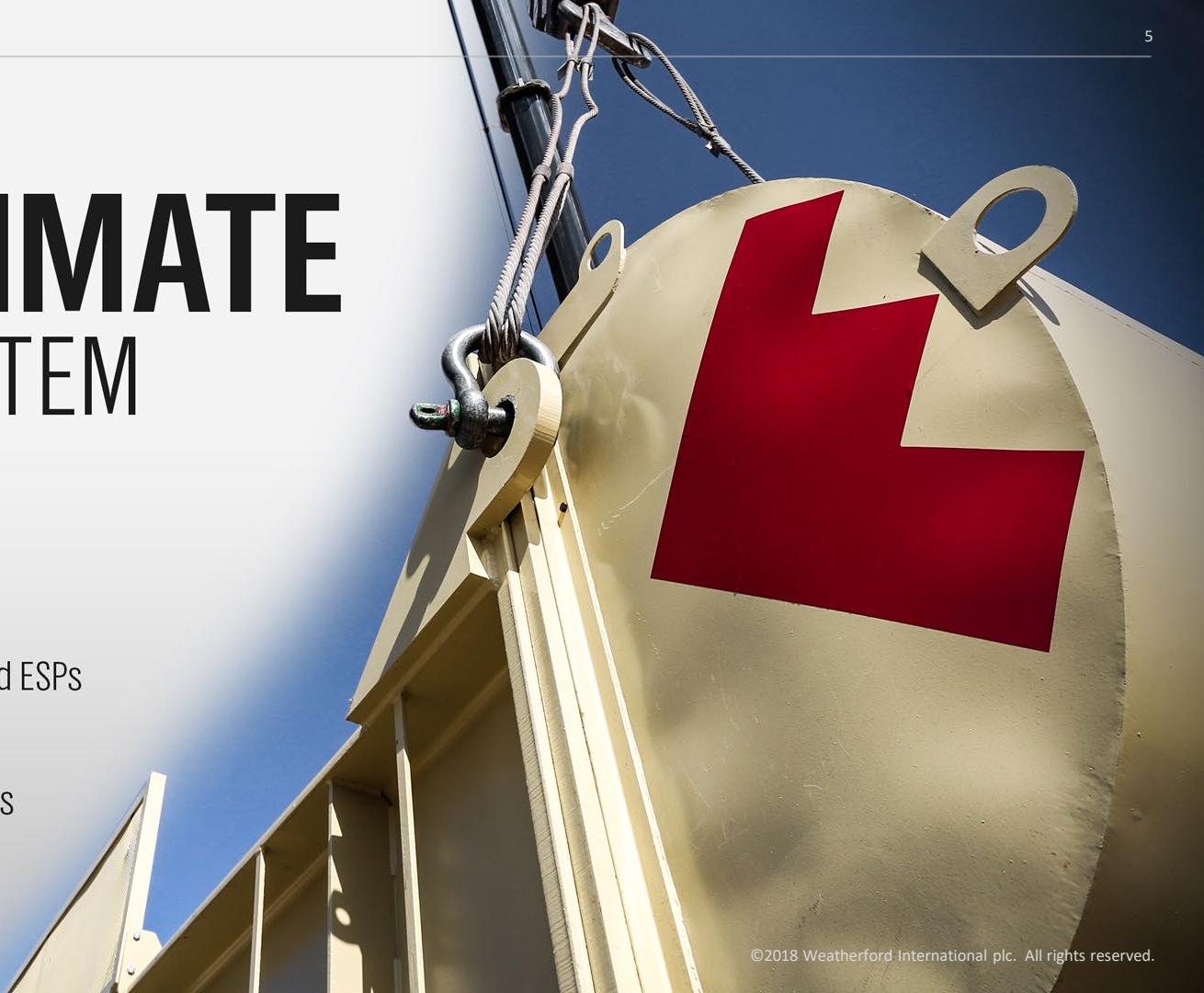
to rod lift 15 to 20% faster

ALTERNATIVE

to large conventional pumping units and ESPs

ELIMINATE

intermediate lift methods in select wells





BUILT FOR THE LONG RUN

PROVEN TECHNOLOGY FOR

deep, challenging, and high-volume wells

REDUCES DOWNHOLE-FAILURE FREQUENCY

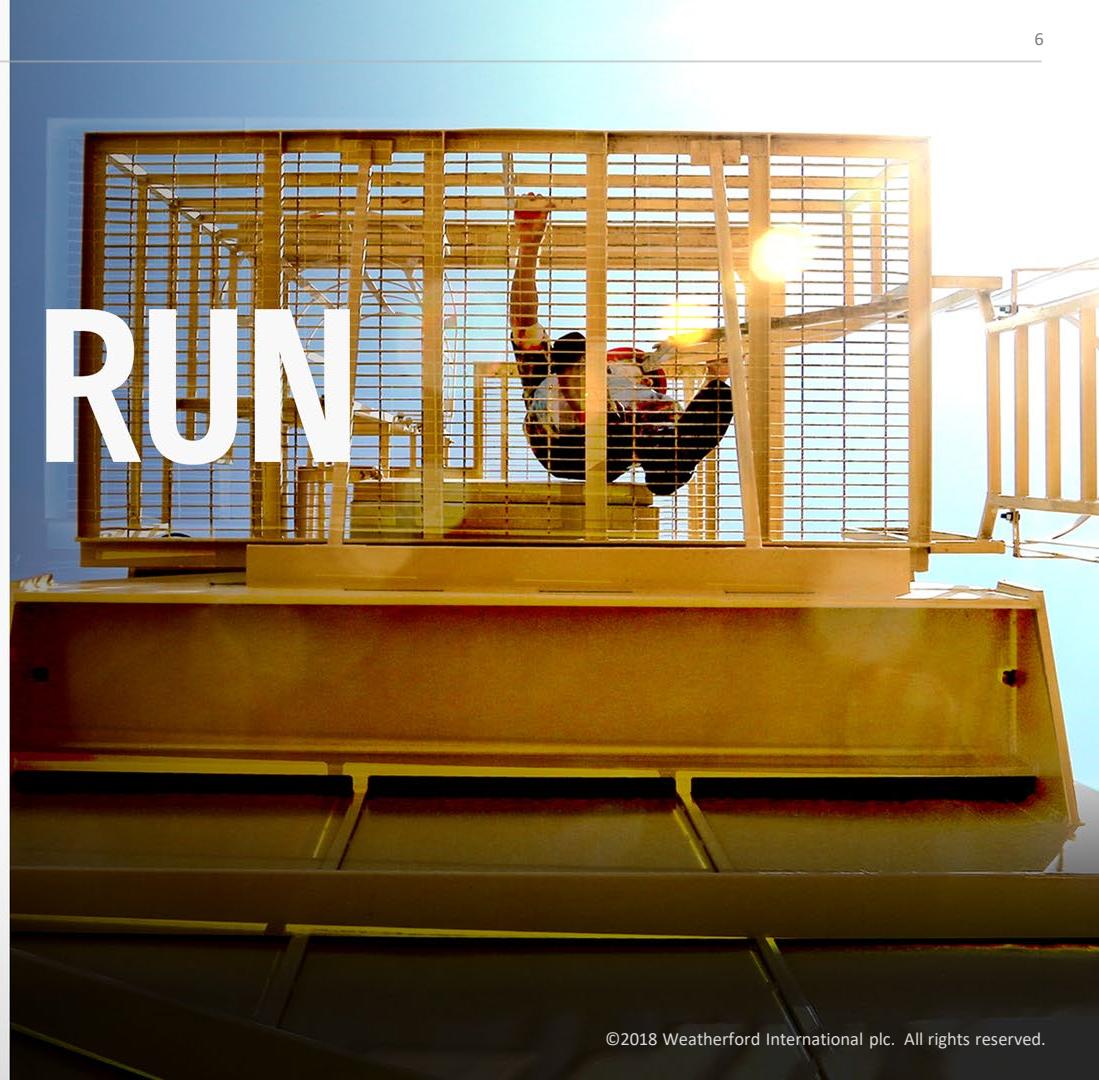
and associated OPEX

DELIVERS UP TO 30.5 FT (9.3 M)

sucker-rod-pump stroke length

SIMPLE, MECHANICAL DESIGN WITH

low maintenance requirements





APPLICATIONS

High liquid-volume wells

Deviated wells prone to sucker rod and tubing failures

Flumping and gas-slugging wells

Heavy-oil and steam-injection wells

Multi-well pads with limited spacing

Deep wells and High-GLR wells





ROTAFLEx SIZES

| Size | 700 / 700-EX | 950 / 950-EX | 1100 / 1100-EX | 1150 / 1150-EX | 1155 / 1155-EX |
|---|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| Reducer rating | 228,000 in-lb (25,761 N-m) | 350,000 in-lb (39,545 N-m) | 350,000 in-lb (39,545 N-m) | 350,000 in-lb (39,545 N-m) | 500,000 in-lb (56,492 N-m) |
| Stroke length | 236 in. (5.994 m) | 288 in. (7.315 m) | 306 in. (7.772 m) | 366 in. (9.296 m) | 366 in. (9.296 m) |
| Peak polished-rod load | 26,500 lb (12,020 kg) | 36,000 lb (16,329 kg) | 50,000 lb (22,680 kg) | 50,000 lb (22,680 kg) | 50,000 lb (22,680 kg) |
| Sprocket diameter | 27.327 in. (694 mm) | 33.547 in. (852 mm) | 33.547 in. (852 mm) | 33.547 in. (852 mm) | 36.720 in. (933 mm) |
| Maximum strokes per minute (SPM) ^A | 5.0 | 4.50 | 4.30 | 3.64 | 3.75 |
| Racetrack avg. SPM | 6.0 | 5.6 | 5.4 | 4.6 | 4.7 |
| Peak straight-way SPM | 6.9 | 6.24 | 5.96 | 5.05 | 5.20 |

** This is the maximum when operating at a constant speed. Refer to "Race Track Mode" with the use of a variable speed drive (VSD).

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REDESIGNED FOR YOUR ASSETS AND CREW

**BOOST
PRODUCTION
WITH FEWER
STROKES**

**REDUCE
YOUR LIFTNG
COSTS**

**STREAMLINE
YOUR MAINTENANCE
PROGRAM**

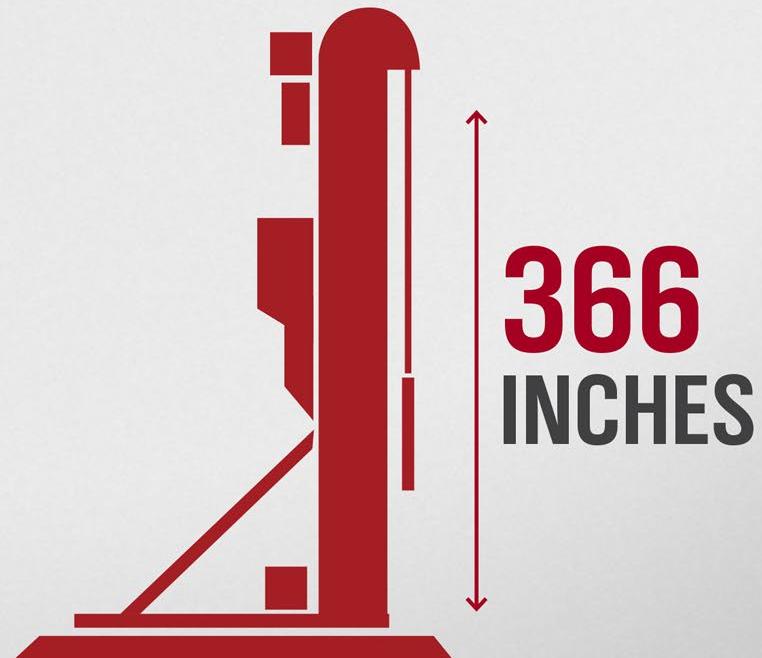
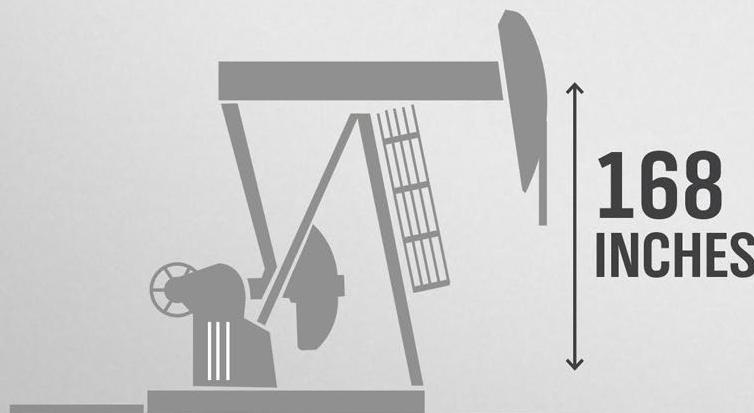


BOOST PRODUCTION WITH FEWER STROKES



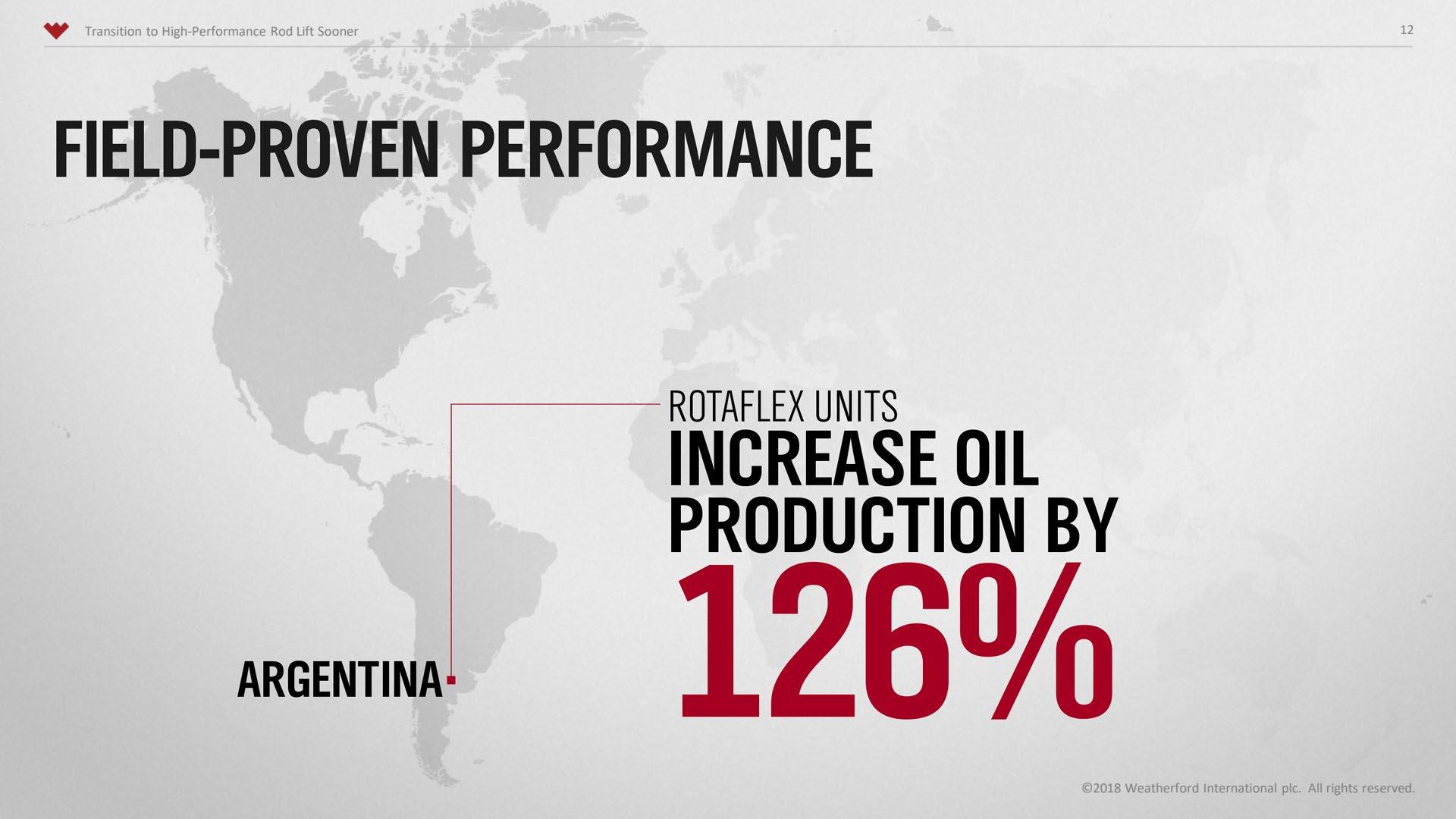


INCREASE PRODUCTION WITH LONGER STROKES





FIELD-PROVEN PERFORMANCE



ARGENTINA

ROTAFLEX UNITS
**INCREASE OIL
PRODUCTION BY
126%**



REDUCE YOUR LIFTING COSTS





DECREASE STROKE SPEED AND INCREASE UPTIME





FIELD-PROVEN PERFORMANCE

NORTH DAKOTA

ROTAFLEX UNITS

**TRIPLE
AVERAGE RUN
TIMES**

REAL-WORLD, HIGH-FLOW CHALLENGES

CALIFORNIA

ROCKIES

**ROD FAILURES EVERY
6 TO 8 MONTHS;**
excessive tubing
wear; stuck pumps

Frequent ESP failures; jet pumps
are not right for the asset; **LOSING
PRODUCTION AT 1,200 B/D**



2019

CREATING ROTAFLLEX BELIEVERS THROUGH VALUE

CALIFORNIA

• ROCKIES

BOTH CLIENTS NOW INSTALL
ROTAFLLEX AT EACH OPPORTUNITY

ZERO ROD-PART OF TUBING
FAILURES OVER 3 YEARS

CONSISTENT PRODUCTION AT 1,200 B/D
WITH INCREASED UPTIME



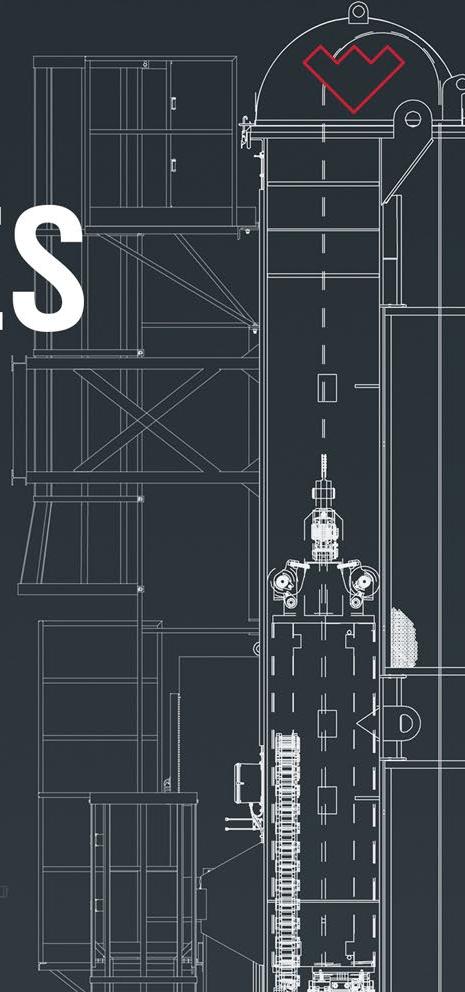
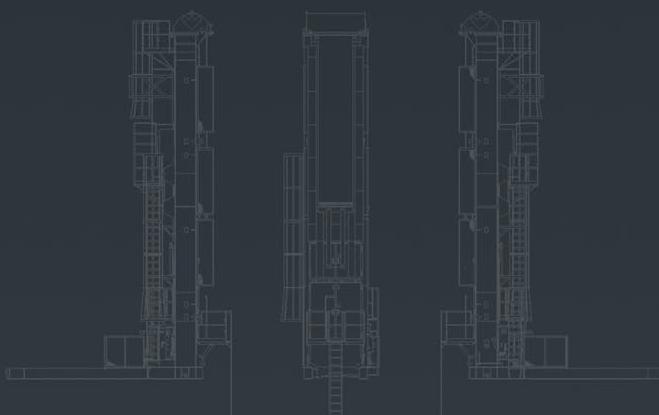
2019



STREAMLINE YOUR MAINTENANCE PROGRAM



NEW FEATURES FOR 2018



ACCESSIBILITY

Upgraded ladders, cages, platforms, and tie off points

LUBRICATION

enhancements

REAR ACCESS DOORS

and door hardware

350-SERIES

gear reducer

TOP DRUM

modifications

ROD ROTATOR

trip device

SPEED SENTRY

and load-belt sensors

INTEGRATED HYDRAULIC

brake and rollback system



EXPAND ACCESS FOR YOUR MAINTENANCE CREW



CUT DOWN ON WEAR AND TEAR

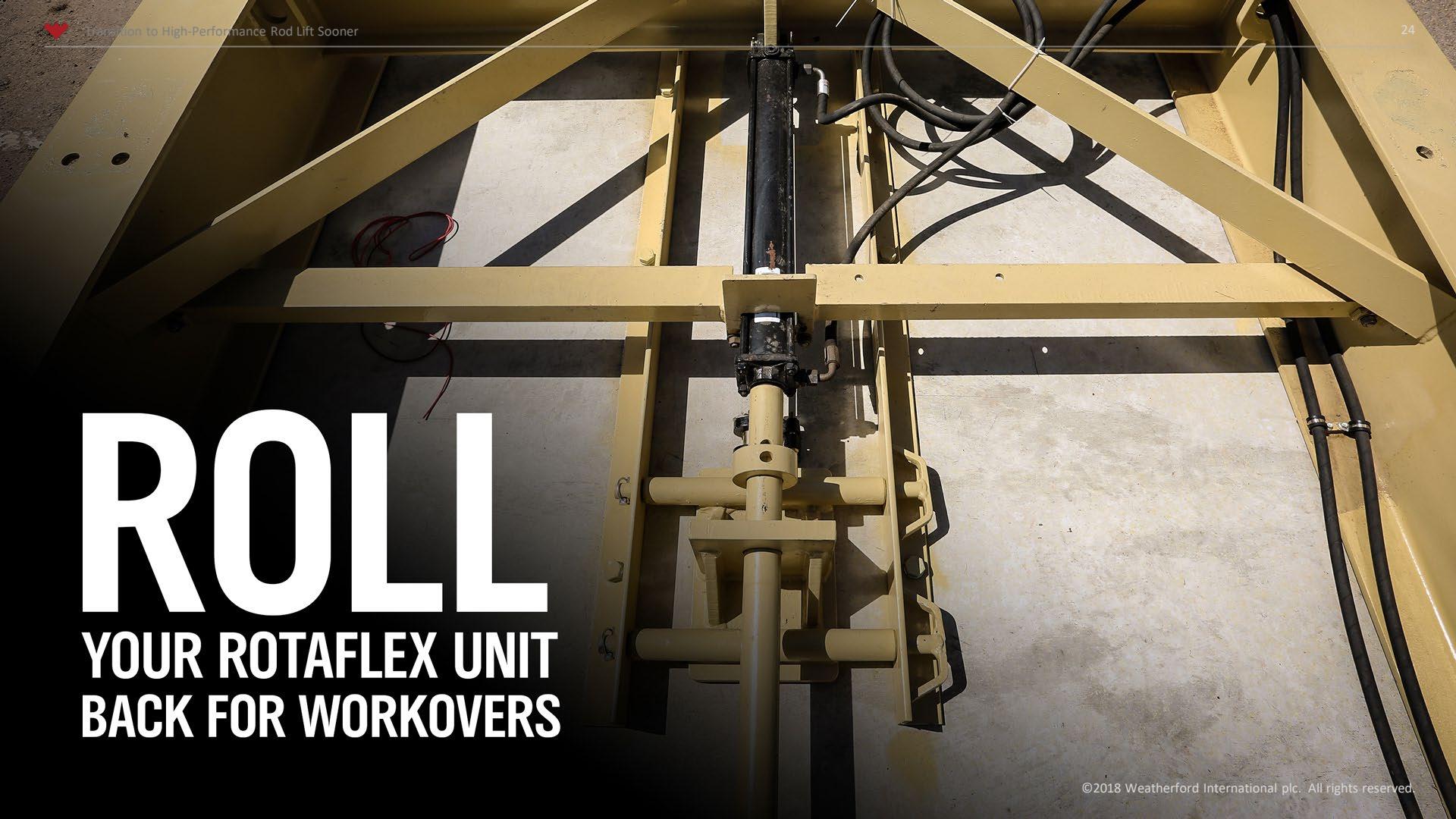




KEEP THE PARTS MOVING WITH A CONTINUOUS OIL BATH



ROLL YOUR ROTAFLLEX UNIT BACK FOR WORKOVERS



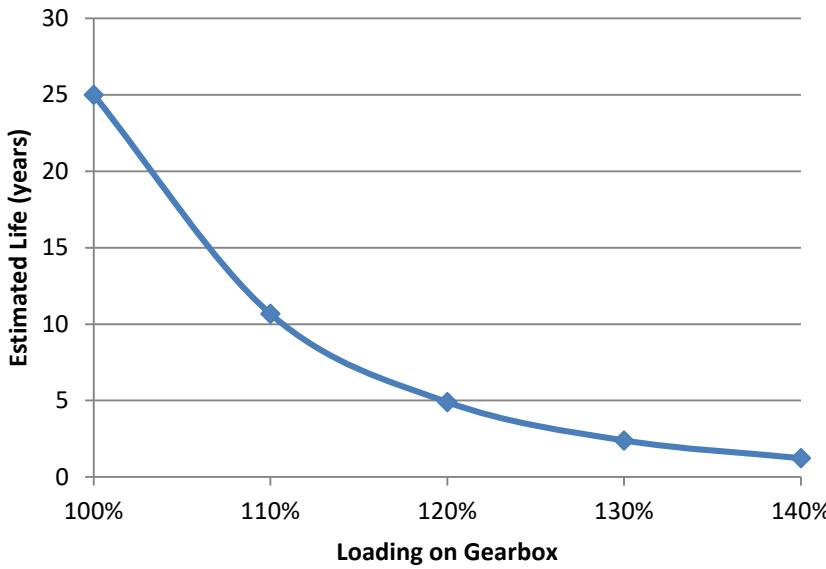


INCREASE TORQUE CAPACITY BY 8.5 PERCENT



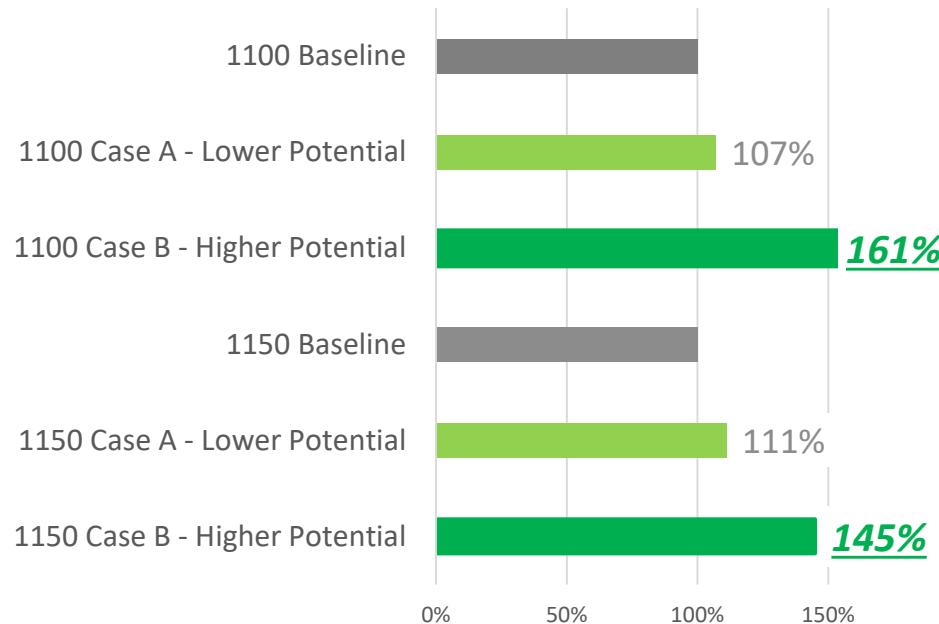
320 vs 350 - Advantages

Calculated Gear Design Life versus Loading for Pitting Resistance



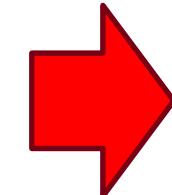
Conclusion 1: the less you load the unit, the better chances of increased longevity the equipment has
Observation 1: if the unit now has 8.5% more load margin on the reducer, then the life increases to...

Results from +30% of Design Cases – 320 to 350



Conclusion 2: 320 reducers can potentially limit higher SPM, whereas a 350 can in some cases allow the well's production to increase by +50%

Observation 2: if the data entails 30% of the designs Weatherford has ran, then there could be even more potential increases available...





EXTEND THE LIFE OF YOUR GEAR BOX





SIMPLIFY YOUR INSTALLATION



Transition to High-Performance Rod Lift Sooner

THE SHORTEST PATH TO **MORE PROFITABLE PRODUCTION**



Weatherford®





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