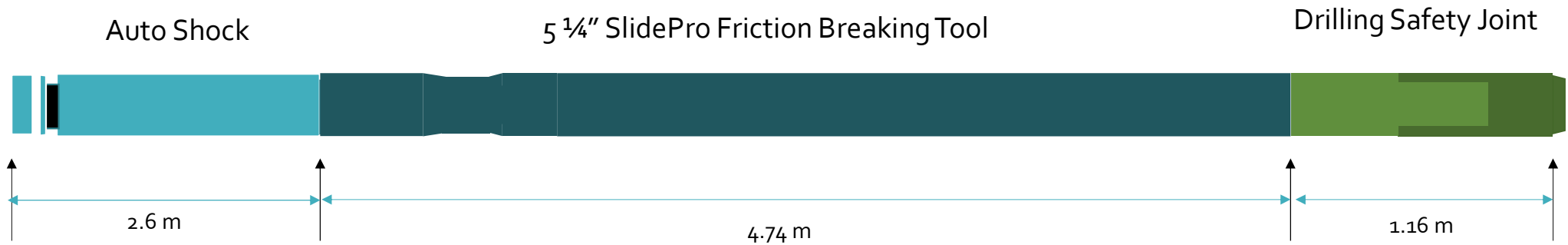




SlidePro Friction Breaking Tool

Over 70 wells drilled to date

SlidePro System Components



SlidePro System Types

SlidePro
Lite

SlidePro
Standard

SlidePro
Low Pressure

SlidePro
MAX

No Shock
Lower Cost
Less friction breaking

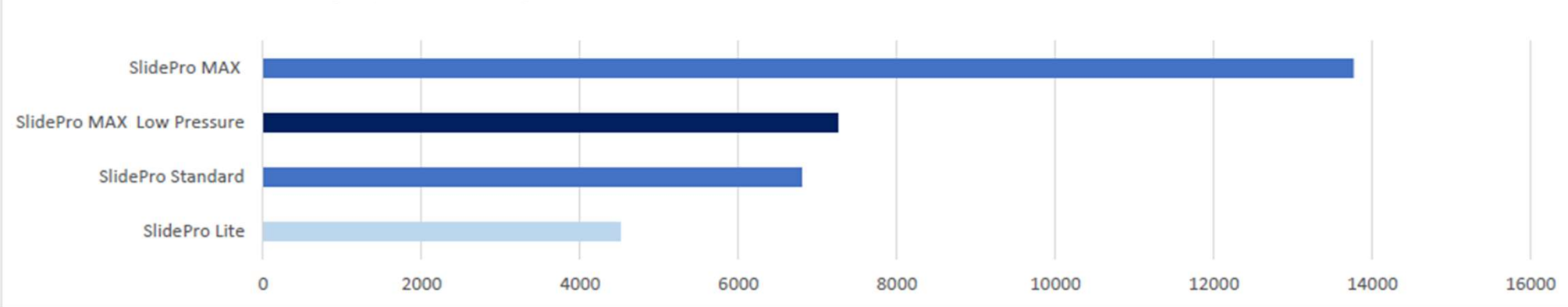
Standard Shock Tool
Standard Pump Open Area

MAX Shock Tool
Large Pump Open Area
Low Pressure
1,400 to 2,000 kPa

MAX Shock Tool
Large Pump Open Area
Standard Pressure
2,000 to 3,800 kPa

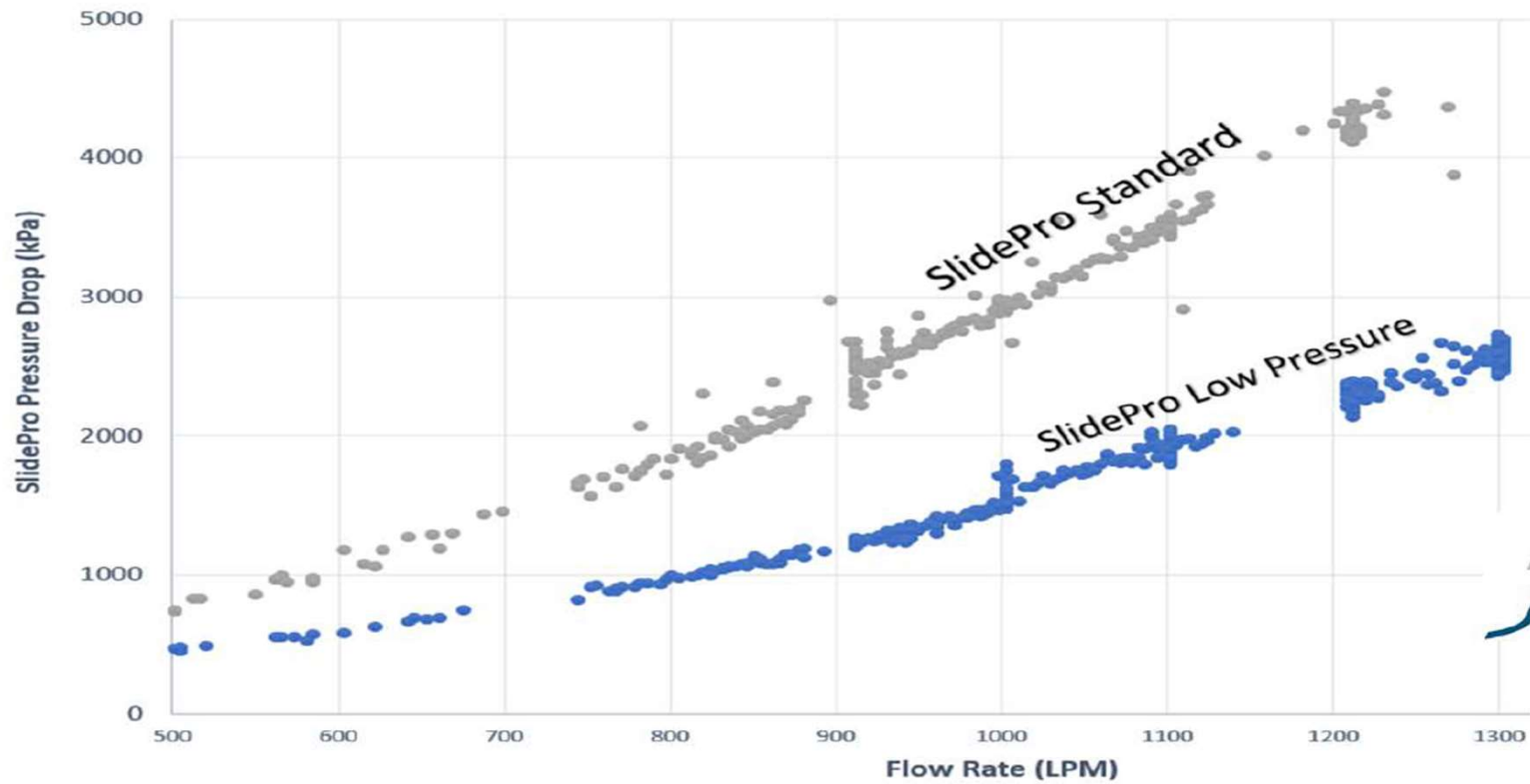
SlidePro System Types

SlidePRO Friction Breaking System Strengths

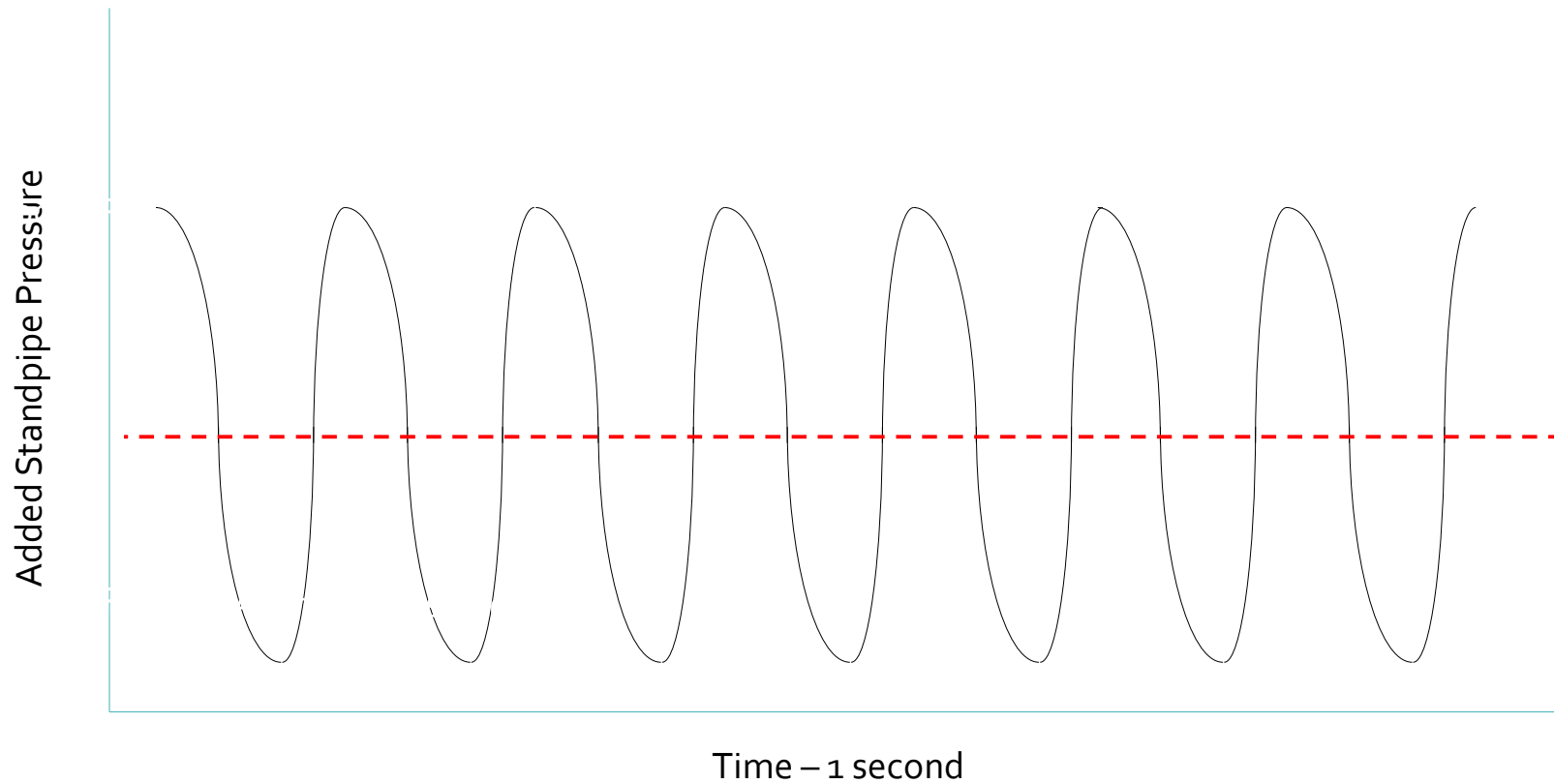


Friction Breaking Setup	Length	Pressure Drop	Placement from Bit	Friction Breaking Strength	Auto Activation
SlidePro Lite	6.32 m	3,800 kPa	300 - 500 m	4,500daN (9,000 lbs)	No
SlidePro Standard	7.92 m	3,800 kPa	700 - 900 m	6,800 daN (14,960 lbs)	Yes
SlidePro MAX Low Pressure	10.52 m	2,000 kPa	700 - 1000 m	7,246 daN (15,941 lbs)	Yes
SlidePro MAX	10.52 m	3,800 kPa	1400 - 1900 m	13,768 daN (30,289 lbs)	Yes

Hydraulics : Based on Shop Flow Test Data



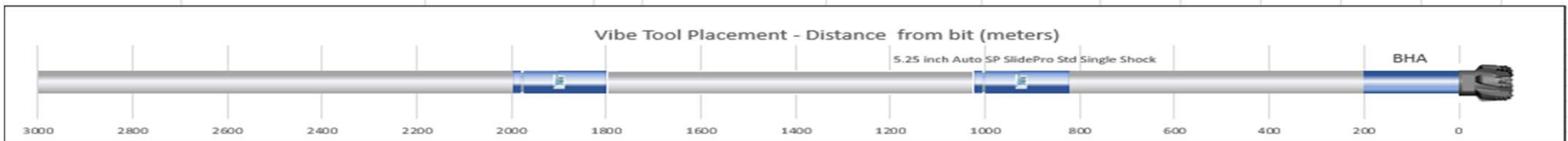
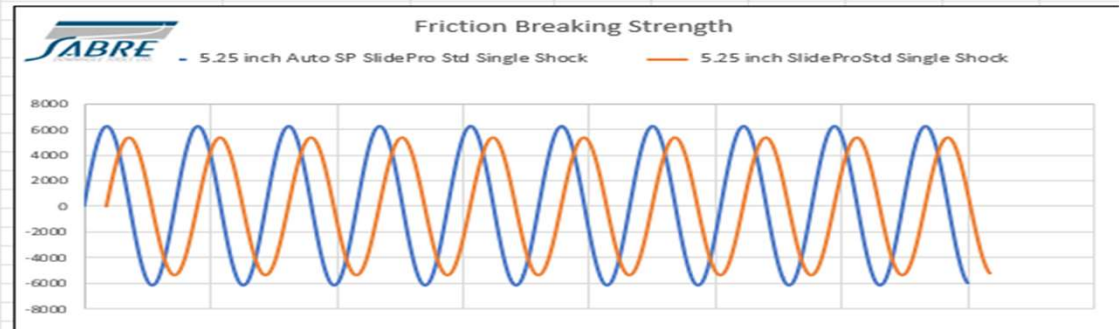
Maximize Amplitude – Minimize Avg Pressure



Placement Calculator

Hole Size	159 mm	mm
Shock Setup		
SlidePro1	5.25 inch Auto SP SlidePro	Std Single Shock
Pressure Drop 1	3500	kPa
Vibe Force 1	6210	daN
Placement Vibe 1	824	m from bit
Shock Setup		
SlidePro2	5.25 inch SlidePro	Std Single Shock
Pressure Drop 2	3800	kPa
Vibe Force 2	5394	daN
Placement Vibe 2	1799	m from bit
BHA OD	5.00 inch	Bit Motor 3 DCs
BHA Weight	3750	kg
BHA Drag	826	daN
Drill Pipe	4.5 inch - 16.6 ppf	
DP wt per m	29.2	kg per m
DP Sideforce per m	24.9	daN per m
DP Drag per m	7.0	daN per m
DP Axial Push	0.0	daN per m
Combined Drag/Push	7.0	daN per m
Mud Type	Brine	
Mud Weight	1170	kg per M3
Bouyancy Factor	0.85	
Mud Vis Factor	1.00	
Friction Factor	0.28	
Flow Rate	1250	LPM
Vibe Frequency	8.9	hertz

Hztl Trajectory		
Horizontal Start	2400	m MD
Horizontal End	5300	m MD
Horizontal Length	2900	m
TVD Start	2300	m TVD
TVD End	2300	m TVD
TVD Change	0	m TVD
Average Inc - deg	90.0	deg



SlidePro Auto Activation

1. Auto Shock Tool is Locked/Latched when above KOP. Unable to stroke.

Determined by:

- Drill string tension / compression

2. Auto Shock Tool Unlocks at KOP. Able to stroke.

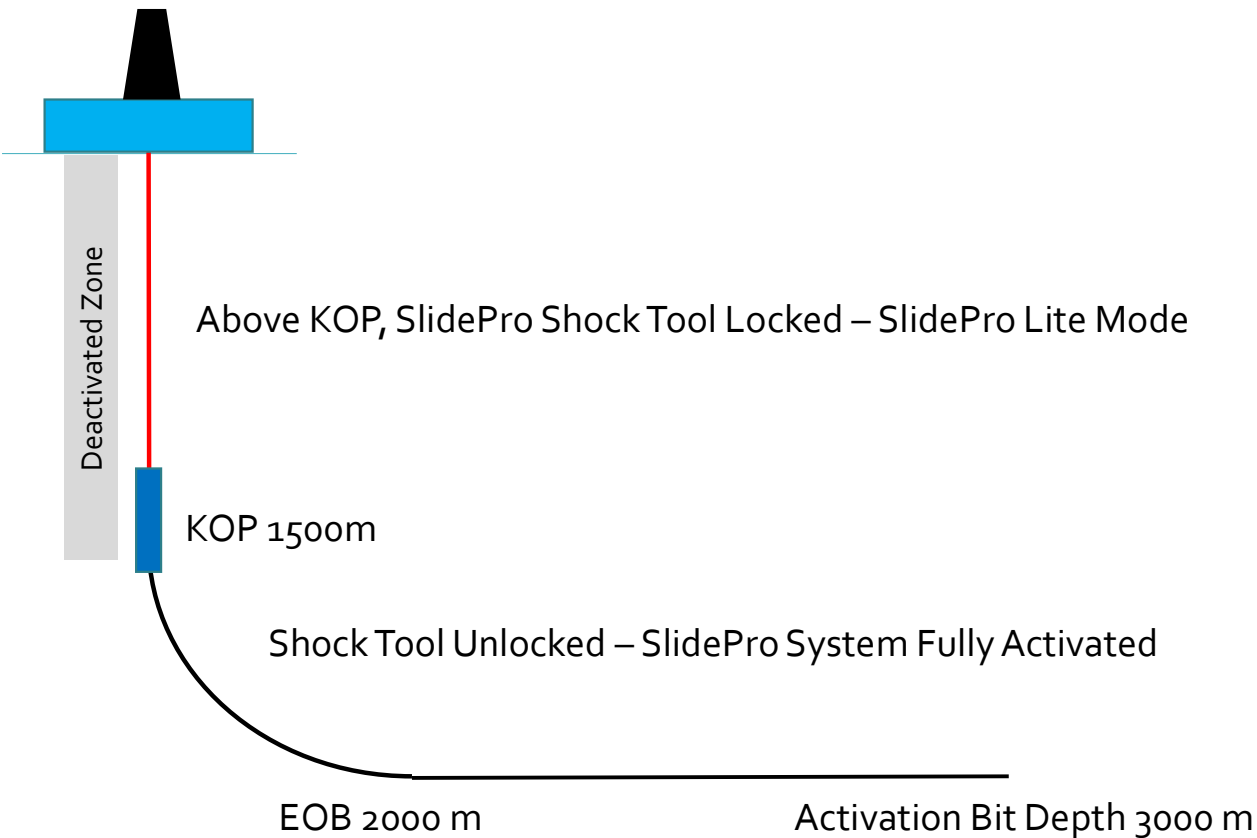
- Transforms into a strong axial friction breaking tool

3. Next well or Next leg: Auto Shock Tool locks/latches when above KOP.



No Ball Required

SlidePro Auto Activation



No Ball Required



SlidePro Benefits

1. Proven reliable design with 70+ wells drilled
2. Durable valve material and shape designed to maximize days between servicing
3. Maximizing friction breaking strength using less pressure
4. Large variable opening valve allows large solids bypass
5. Auto Activation at KOP without using a ball or Dart
 - No bypass flow
6. Technical support including hydraulics calculator, placement calculator and Torque&Drag modeling.



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