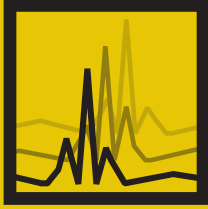


VIBRATION TECHNOLOGY



For more information on the application of pipe vibration in your oilfield situation, or for more detail about the technology's principles, please call us.

Job Report

Telephone: (432) 689-3351
 Fax: (432) 689-3352
 2319 E. CR 123
 Midland, TX 79706
www.vibrationtechnology.com

Drilling Operations Get Results

*Stuck Drilling Assembly Liner Running and Recovery
 Casing Recovery For Sidetrack*

Pipe vibration is applicable in any situation that responds to pipe reciprocation, tensile, compressive or percussive force, or friction reduction.



Hydraulic power drives Vibration Technology's surface oscillator.



The crew of Patterson Rig 50 rig-up Vibration Technology's 500K oscillator.



Vibration Technology's 500,000 lb working load oscillator makes quick work of freeing stuck pipe in drilling operations.

No downhole intervention

-Pipe vibration can be quickly applied with very little preparation.

Quick to rig-up

-Approximately 2 hours are required for complete set up.

Convenient Location

-Strategically located at our Gulf Coast facility near Lafayette, Louisiana.

Compact Package

- Readily transportable
- Two offshore lifts

500,000 Lb Working Load Capacity

- Suitable for most drilling and casing applications

Well Location	Type	Sticking Mode	Equipment Used	Well Geometry	Well Depth / Freepoint	Workstring - BHA Detail	Prior Action	Vibration Results	Subsequent Action
Jefferson County, TX	Drilling	Differential	500K	Vertical	4,591'	12-1/4" BHA	Jar	Recovered	Continue with well
Washington County, TX	Drilling	Hole Collapse	500K	Sidetrack	14,247'	4-3/4" BHA	Jar became stuck	Free drilling jar	Sidetrack
Galveston County, TX	Drilling	Mechanical	500K	Deviated	13,300'	11,600 7" Casing	Work with rig 36 Hrs	Freed	Continue running casing
Galveston County, TX	Drilling	Differential	500K	Deviated	11,300'	6-1/2" BHA	Work with rig 16 Hrs	Recovered < 6 Hrs	Continue with well
West Delta 27	Workover	1,203' GP Screen and Blank	500K	Deviated 37 deg.	3-1/2" Liner at 10,464'	4" Drill Pipe	Run downhole vibrator with no results	Recovered 977' blank in 35 minutes	Abandon operation
Zapata County, TX	Drilling	Differential	500K	Vertical	8,878'	7-5/8" Liner	Work with rig	Freed	Continue running liner
Hidalgo County, TX	Drilling	Differential	500K	42 deg. "S" curve	7,138'	9-7/8" Casing	2 days work with rig	Freed	Continue running casing

Rapid Results

Pipe vibration offers a low risk, high reward, first means for pipe recovery operations.

Results can be achieved rapidly, substantially reducing time and effort required to solve stuck pipe problems.

Innovative Technology ... Solutions