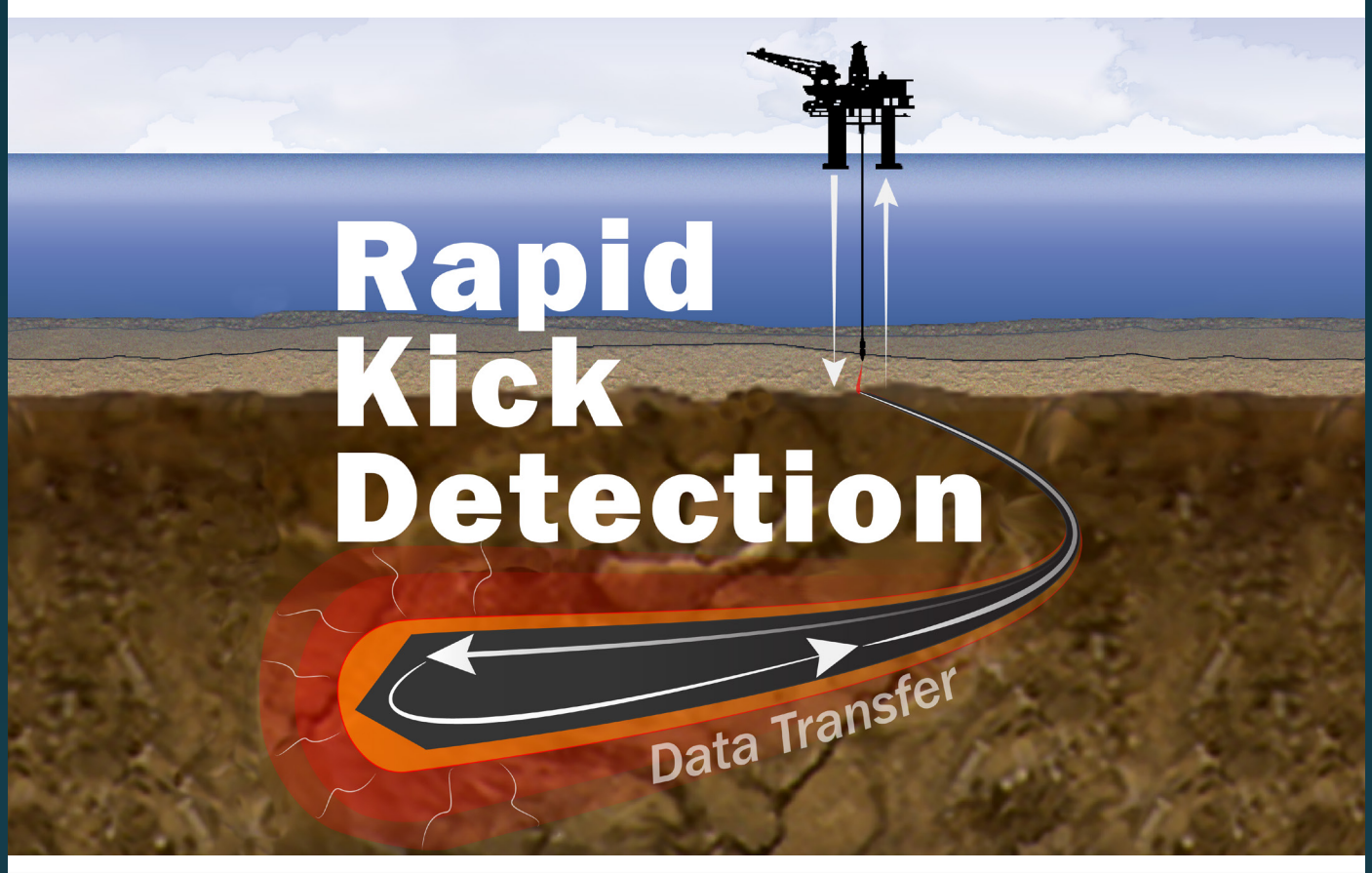
THE U.S. DEPARTMENT OF ENERGY'S
NATIONAL ENERGY TECHNOLOGY LABORATORY

KICK DETECTION AT THE DRILL BIT

DOWNHOLE REAL-TIME SENSING



DOE-NETL RESEARCHERS have developed a new kick detection method that uses data collected from existing down hole sensors, allowing drillers to detect kicks where they occur – at the drillbit.

44% of non-productive time is associated with kick/wellbore instability-related problems

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Conference Presentations	Technical Report	Journal Publication	News Articles	Patent Issued

"Innovative R&D Winner" award at the 2017 Shale Gas Innovation Contest.

Awarded $750k in Technology Commercialization Funding for kick technology commercialization, collaborating with Saudi Aramco, the world's largest oil and gas operator.

Non-provisional Patent Application No. 14/852,845 titled *"Kick Detection at the Bit Using Wellbore Geophysics"* is available for licensing.

EXTERNAL INTEREST

BOEM Bureau of Ocean Energy Management
Chevron
BSEE Bureau of Safety and Environmental Enforcement
ExxonMobil
Letton Hall Group Experts in Oil & Gas Flow
ارامكو السعودية Saudi Aramco

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