

Project Overview

Acoustic Data Transmission

Technology company

RAPTOROIL



Project sanctioned

August 2017

What is it?

A system providing high speed wireless acoustic data transmission through a pipe.

How does it work?

Increases target data rates to 300bit/sec, which exceeds performance improvement of 10x, using a downhole tool (non drilling)

Key project milestones

- November 2017 – Update algorithms & tool and test
- April 2018 – Analyse results
- April 2018 – Build downhole tool system
- July 2018 – Design drilling system
- October 2018 – Analyse performance

Project background

- Low risk field trial
- Strong industry interest

Benefits/added value to industry

- Increased data bandwidth could enable other technologies
- Increases drilling efficiency
- Provides high quality data to enable better decision making
- Local organisation – retention of local focus for technology development

Design



Acoustic data transmission through pipe

Exceeds 10x performance improvement rate