



## O&G Case Study - Solids

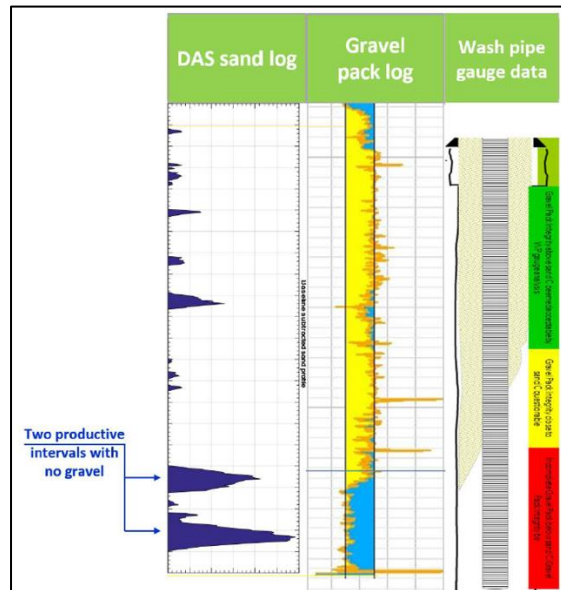
### Challenge

Well optimization from integration of LYTT's sand logs with other surveillance data

During a gravel packing operation in a high rate oil well, it was observed from the data acquired on the wash pipe pressure gauges that were run as a part of the completion that the bottom screen joints were not completely packed with gravel. After the well completion, a pulsed neutron logging tool confirmed that diagnostic. As the well was also equipped with preinstalled fiber optic cables, the operator was looking to acquire sand logs in real-time to ensure that the well is produced at Maximum Sand Free Rate (MSFR) without downhole sand production to minimize the risk of sanding but dynamically maximize production.

### Solution

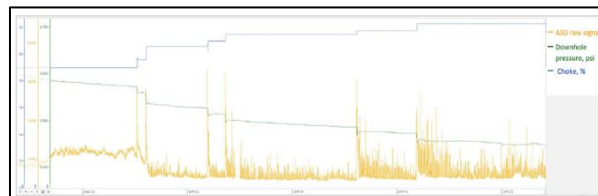
LYTT's sand monitoring application was used to confirm gravel pack logging results and monitor changes in sand production dynamics through ramp up. DAS sand logs (when tested "blind" – i.e., without prior knowledge of the results from the gravel pack logging results), confirmed increased sanding across the bottom zones and also showed additional zones of sand production



Comparison of results from LYTT's Downhole sand log with results independently measured through Pulsed Neutron Gravel pack logs

### Result

The well was ramped up with real-time downhole sand surveillance using LYTT's sand monitoring system and optimized to determine the Maximum Sand Free Rate (MSFR) by correlating the real-time DAS data with acoustic sand detector and sand samples measured on surface.



LYTT's analytics used to inform MSFR in an OHGP oil producer

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### Value

The DAS sand monitoring system was not only used to assess sand influx in real-time but also sand transport to ensure that produced sand did not deposit in the pipe, providing flow assurance. 9.5mbod MSFR was achieved at 400psi drawdown.