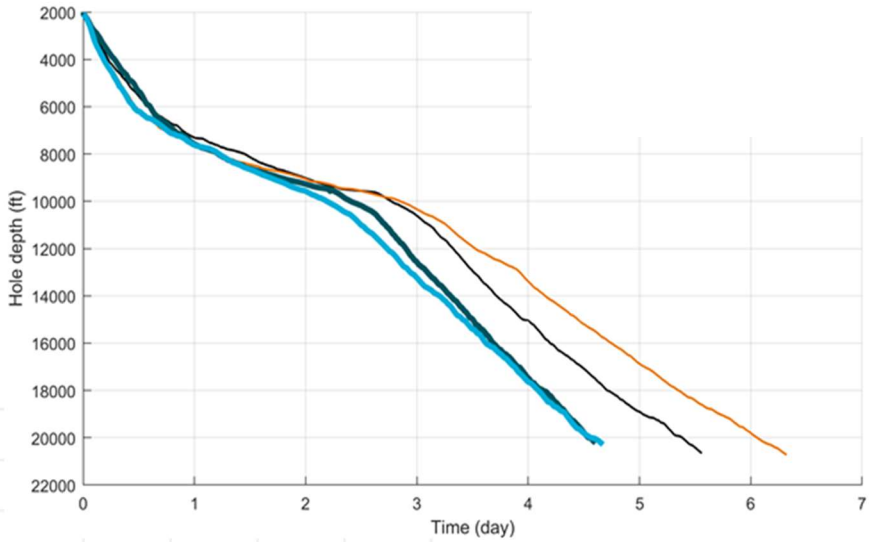
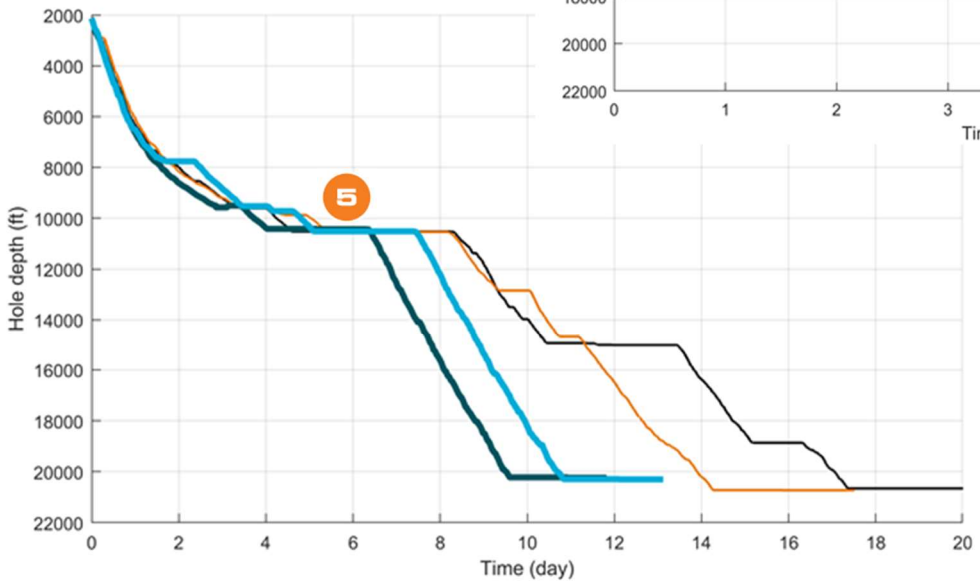
DAS™ – Case Study

In 2019, we closely studied a Bakken pad rig as it drilled four offset wells. The rig drilled the wells with and without DAS*, which provided excellent comparative data. The crew drilled wells 1 to 4 in sequential order: wells 1 and 2 without DAS, wells 3 and 4 with DAS.

The results speak for themselves.

1. Intermediate section ROP **+ 19.7 %**
2. Curve section ROP **+ 21.9%**
3. Lateral section ROP **+ 36.7%**
4. Spud-to-TD time reduced by five days (**- 29.5%)**
5. **Fewer** trips





Well 1, No DAS
Well 2, No DAS
Well 3, DAS
Well 4, DAS

Well	System Used	Vertical Usage (%)	Vertical Rotary ROP (ft/hr)	Build Usage (%)	Build Rotary ROP (ft/hr)	Lateral Usage (%)	Lateral Rotary ROP (ft/hr)	Flat Times (#)	Spud-to-TD (days)
Well 1	No	0	132.4	0	114.1	0	200.2	6	20.4
Well 2	No	0	128.6	0	54.2	0	144.2	6	17.2
Average	**No**		**130.5**		**84.15**		**172.2**	**6**	**18.8**
Well 3	Yes	96.6	143.4	61.7	91.6	89.6	256.0	3	12.6
Well 4	Yes	65.0	169.0	100.0	113.6	50.6	214.8	5	13.9
Average	**Yes**	**80.8**	**156.2**	**80.9**	**102.6**	**70.1**	**235.4**	**4**	**13.25**
Improvement			***19.7%***		***21.9%***		***36.7%***	***33.3%***	***29.5%***
			1		2		3		4

* DAS is a trademark of and contains technology licensed from ExxonMobil Upstream Research Company.