



COMPARISON OF BIT WEAR



NO EPST



WITH EPST

Source: Shell E&P

RIG: NOBLE ROGER LEWIS

RIG	Noble Roger Lewis
Type	Jack-up RIG AC
Location	Off-shore Qatar
Contractor	Noble Drilling
Operator	Shell

Top Drive System

Model:	TDS-HPS-750 E-AC-KT
Deliverer:	NOV
Total Power:	1150 HP
Drilling motor:	GEB 20 AC
VFD	MasterDrive (Siemens)

EPST implementation	September 2009
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Specials	Parallel PROFIBUS Communications with VFD
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Added functionality	Auto WOB Auto ROP
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EPST IMPACT:

- Best off-set to date 60% ROP improvement.

