

# BOP Expert Opinions

Opinion	Transocean	Cameron	Halliburton	PSC	BP	US
Upper Annular functioned	✓	✓	✓	✓	✓	✓
Variable Bore Rams functioned	✓	✓	✓	✓	✓	✓
Blind Shear Rams functioned	✓	✓	✓	✓	✓	✓
Blind Shear Rams could have sheared centered pipe	✓		✓		✓	✓
Pipe was off-center and prevented Blind Shear Rams from fully shearing and sealing	✓		✓	✓	✓	✓
Flow lifted the pipe at AMF time	✓		✓	✓	x	x
Tensile failure and erosion caused pipe to separate above upper annular	✓	✓	✓	✓	✓	✓
Pipe separated on 4/20	✓		✓			x
Flow buckled the pipe at AMF time	✓		✓		x	x
Rig Drift could not have caused pipe to be off-center at Autoshear time	✓		✓		✓	x
Traveling Block could not have caused pipe to be off-center at Autoshear time	✓		✓		x	x
<b>Experience</b>						
Prior experience in oil and gas industry?	✓	✓	✓	✓	✓	x
Prior experience with BOPs?	✓	✓	✓	✓	✓	x
Any BOP design patents?	✓	✓	x	x	x	x