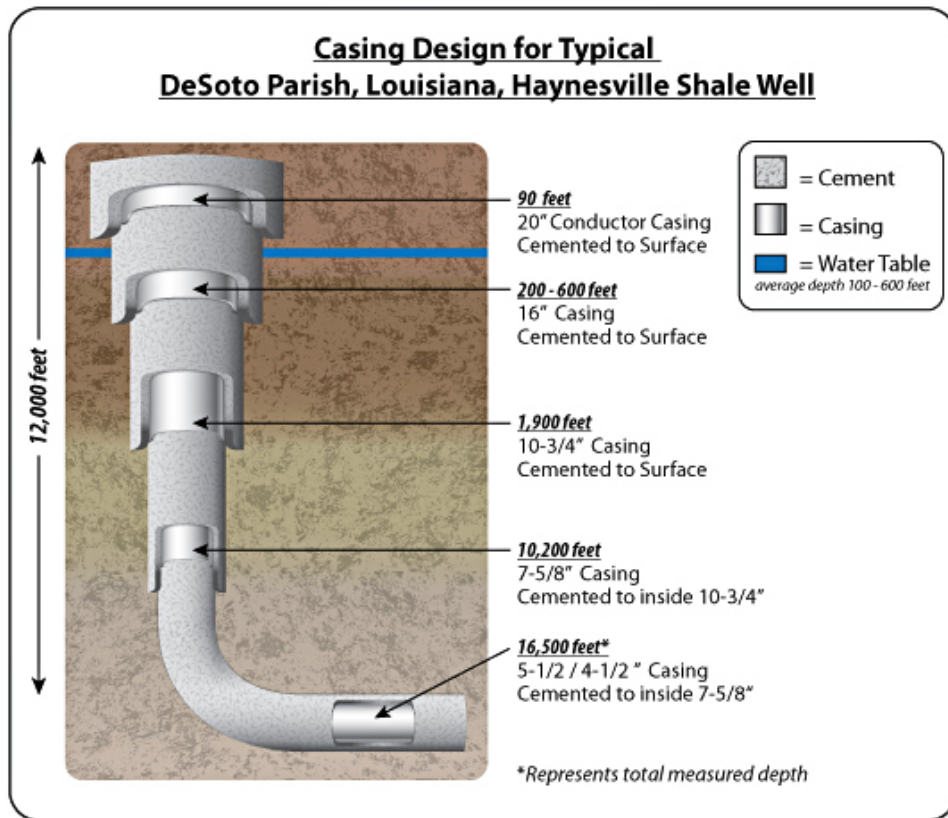


Well bore integrity

Members of the Review Panel:

Well bore integrity is not an issue specific to unconventional resources that require hydraulic fracturing. It is an important issue in all oil and gas drilling. I attach a presentation by George E. King made to the Society of Petroleum Engineers.

King finds that modern wells, with multiple layers of protection and improved cements, are much safer than older wells. He also finds that horizontal drilling with multiple fracture stimulations is inherently safer than traditional drilling because one pierce point replaces several pierce points.



I also submit a CAPP presentation on wellbore construction and quality assurance.

Respectfully yours,

M. Jarvis
CEO
Shoal Point Energy

http://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=2&ved=0CCoQFjABahUKEwi7tbzqw4XGAhWGPJIKHR8ZABg&url=http%3A%2F%2Fwww.capp.ca%2F~%2Fmedia%2Fcapp%2Fcustomer-portal%2Fpublications%2F218137.pdf&ei=kWN4Vfuol4b5yASfsoDAAQ&usg=AFQjCNFO5y4HWErec8WLRDcGbiFTv8shaA&sig2=-Knt_PfXH-aVtD9sYBA38w&bvm=bv.95039771,d.aWw

<http://ptrc.ca/+pub/document/King%20-%20Barrier%20Failure%20and%20Well%20Integrity.pdf>