INTELLECTUAL PROPERTY FILING MAP
5 specification "bucket" framework ensures breadth, low-cost follow on

FORO ENERGY

2008	Q3	Prov 1 61/090,**384** (8/20)				
	Q4		Prov 2 61/102,**730** (10/3)	Prov 3 61/116,**472** (10/17)		
2009	Q1				Prov 4 61/153,**271** (2/17)	
	Q2	*Method and apparatus for delivering high power laser energy over long distances*	*Apparatus for advancing a wellbore using high power laser energy (ie, optics/BHA)*	*Method and apparatus for delivering high power laser energy to surface*	*Method and apparatus for removal/control of cuttings from a borehole (ie nozzle)*	*Method and system for high speed advancement of a borehole through hard rock*
	Q3	Appl S1a Overcoming nonlinear fiber effects (*Target 8/15*)	Appl S2a Optics, rotation, jets (*Target 8/15*)	Appl S3a Patterns (*Target 8/15*)	Appl S4a Nozzle, amplifier design (*Target 8/15*)	Appl S5a Nozzle, amplifier design (*Target 8/15*)
	Q4					
2010	Q1	CIPs S1b, S1c, S1d •Delivering high power laser energy to rotating spool •Mounting, armoring fiber •Fiber delivery through BOP (*Target Q1 '10*)				
	Q2					
	Q3		CIP S2b Improvements and further developments (*Target Q3 '10*)	CIP S3b Improvements and further developments (*Target Q3 '10*)	CIP S4b Improvements and further developments (*Target Q3 '10*)	CIP S5b Improvements and further developments (*Target Q3 '10*)