

# SandIQ PRO™

Optimized Perforating for Diversion

**WITH CONVENTIONAL PERFORATING,  
WHAT MAKES YOU THINK THAT  
PROPPANT AND FLUID  
TRAVEL TOGETHER TO ALL CLUSTERS?**



**GEO**Dynamics®  
Engineered Perforating Solutions

# SandIQ PRO™

Optimized Perforating for Diversion

## PARTICLE TRANSFER AT HIGH FLUID VELOCITY IS COMPLEX

### FEATURES

#### SHAPED CHARGE TECHNOLOGY

- Provides an "off ramp" for more efficient diversion of proppant
- Perforating tunnels are tilted in direction of fluid flow
  - Additional angles are available
- Angled holes are engineered to create a physical diversion on toe side of casing for proppant to naturally flow into the formation
- Shaped charge technology engineered to produce precision holes in casing size, weights, and grades which are used in unconventional wells
- Customized entry hole selection on request

#### CARRIER TECHNOLOGY

- Integrated redundant grounding & charge tube retention
- Zero tension quick connect at the switch pen
- Shorter gun strings
- Faster loading process for service providers
- Easy troubleshooting

### BENEFITS

- Constant entry hole size in eccentered conditions
- Allows the operator to accurately determine the number of open perforations via step rate testing
- More uniform placement of proppant in all perf clusters within the stage
- Subsequent stages and wells can then be further optimized for limited entry fracture stimulation

### APPLICATIONS

- Limited entry perforating design
- Unconventional reservoirs
- Conveyable on wireline, slickline, and tubing

CARRIER O.D.	PRODUCT NAME	3 1/8" CARRIER OPTIONS 4, 6, OR 8 SHOTS/ CLUSTER	SHAPED CHARGE PART NUMBER	EXPLOSIVE		CASING ENTRY HOLE inches	CASING ENTRY HOLE at 45 degree inches	ROCK PENETRATION inches	API 19B TARGETED PIPE	EHD VARIATION DECENTRALIZED at 45 deg.
				grams	load					
3-1/8	SandIQ™ D	GT31-45-J002A GT31-45-B004A GT31-45-A006A GT31-45-A008	EC2-33A1672-SD	16	HMX	0.35	0.35	6.0	5-1/2" O.D. 23# P-110	1.7%
3-1/8	SandIQ™ E		EC2-33A2072-SE	20	HMX	0.40	0.41	6.0	5-1/2" O.D. 23# P-110	4.8%
3-1/8	SandIQ™ F		EC2-33A2372-SF	23	HMX	0.45	0.43	6.0	5-1/2" O.D. 23# P-110	6.0%
3-1/8	SandIQ™ D	GT31-45-J002A GT31-45-B004A GT31-45-A006A GT31-45-A008	EC2-33A1671-SD	16	RDX	0.35	0.38	6.0	5-1/2" O.D. 23# P-110	2.6%
3-1/8	SandIQ™ E		EC2-33A2071-SE	20	RDX	0.40	0.42	6.0	5-1/2" O.D. 23# P-110	4.7%
3-1/8	SandIQ™ F		EC2-33A2371-SF	23	RDX	0.45	0.44	6.0	5-1/2" O.D. 23# P-110	5.1%

\* 3-1/8" Charge performance is compatible in 4-1/2" inch 11.6-15.1# and the 5-1/2" inch 17-23# P110 casing

\* Patents: US7044225, US9038521, US9562421 and Patents Pending

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