



Subject: **PAC™ Limited Penetration Perforating Systems**

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Distribution: **West, Jeff; Weisner, Les; Schaffer, Brett; Owen Buyer Planners; Owen Engineering; Owen Receiving; Owen International All; Owen Sales & Marketing; Owen Quality Control; Owen Machine Shop; Owen Ballistics Manufacturing; Owen Warehouses All; Lisle, Josh; Campbell, Steve; Owen Compliance Services; Arnold, Jerry**

Reference: **PRJ-1076 (P&A Perforating Technologies)**

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Due to the increased demand for P&A specific perforating systems, Owen Engineering has developed and is proud to announce the release of PAC™ (Plug & Abonnement – Circulation), Owen’s new product line for limited penetration perforating systems. Owen’s PAC™ line provides a superior option to standard tubing/casing punch charges in regards to limited penetration. These charges are capable of producing 360° coverage of the primary string with consistent exit hole diameters for less impeded cement flow. PAC™ is by far the largest and most robust product offering in the world for limited penetration perforating systems. This gives Owen a powerful and unique position in the well-decommissioning and circulation markets, which enables you to provide more solutions to our clients.

Information regarding PAC™ can be found online as noted below:

Product Webpage: <http://www.corelab.com/owen/charges-PAC>.

Catalog Page: http://www.corelab.com/owen/CMS/docs/TechCat/PAC-1562_2107_3107_5128_7026.pdf

Case Study: <http://www.corelab.com/owen/CMS/docs/case-studies/csPAC7inNSSC.pdf>

Charge Selection Guide: <http://www.corelab.com/owen/cms/html/charge-performance-data.aspx>

Over the next several months we will be conducting WebEx-based training with Sales personnel and Warehouse managers on the new product offering, FAQs, and website functionality.

In the meantime, should anyone have questions or inquiries regarding P&A or circulation applications in general, please feel free to contact me anytime at: James.Kinsey@corelab.com or (817) 991-2854.