



# OIL & GAS MARKET SOLUTIONS

Oil Shale



TPC WIRE & CABLE CORP.  
EXPECT HIGH PERFORMANCE®

# TPC Wire & Cable Corp.

## Customer Testimonial

## Oil and Gas Market Solutions

TPC Wire & Cable Corp. is a leading supplier of wire, cable and connectors used in harsh industrial environments. TPC's products are designed and engineered to withstand harsh conditions including abrasion, chemicals, constant flexing and extreme temperatures. TPC serves a variety of markets including the steel, utility, mining, automotive, food and beverage, government, oil and gas, transportation and wood, pulp and paper markets. The company's long-lasting, dependable wire and cable products solve the most difficult application problems in the harshest environments resulting in lower overall costs and increased production time. TPC products outperform and outlast ordinary cable 10:1.

## Top Drive Case Study

### Customer Problem

Drill Rig Top Drive has been exposed to flexing, twisting, abrasion as well as exposure to fluids and extreme weather conditions. The cable they were using failed too quickly.

### TPC Solution

This customer (contract driller of oil and gas) replaced 185 feet of cable in a top drive application with TPC's Super-Trex 16/25 Reduced Diameter Control Cable.

### Result

The customer saved \$2448.80 in material and labor costs by switching to TPC cable as well as saving 100 hours in labor. If they would have continued with the previous cable, they would have changed out the cable 3 times, but using TPC cable allowed them to continue production for 15 straight months without failure.

Source: TPC Cost Value Analysis Report #2510.

### Al Creely, Senior Control Engineer Schramm, Inc.

We found the pulsing of the hydraulic hoses ate through the cables, shorting them out. We needed a better cable in critical areas of the control system.

TPC showed us the Super-Trex®, and Trex-Onics® cables, and told us they would solve the wear problem. Of course, we were skeptical, but TPC challenged us to try anything to cause a failure. We decided to try the most abusive thing we could think of — run the cable over with a tracked rig.



The cable in this picture was run over by a 60,000 lb track rig. When the initial test didn't cause a failure, we performed a 0 degree turn, pivoting directly on the cable. The only damage to the cable was the abraded outer casing.

Since this experiment 3 years ago, we have been using Super-Trex and Trex-Onics for our mission-critical cable assemblies, without a failure. We also now exclusively use Super-Trex for all of the AC devices on the rig (lighting, heaters, control room power, etc.) It costs more than regular SOO or SOOW, but we know the cable will survive the environment. In many instances, the increased cost is offset because we can often eliminate the sealtite and conduit as well.

*Schramm is a world class API-Q1, ISO-9001:2008 certified manufacturer of mobile, land based hydraulic drill rigs. With top head drives and hook loads to 500,000 pounds, our rigs are used extensively in the energy, mineral exploration, geothermal and water well sectors in more than 80 countries.*



## TPC Products Solve Problems in Drill Rig Applications



**TOP DRIVE**



**MUD PUMP**



**POWER GENERATION**



**SHALE SHAKER**

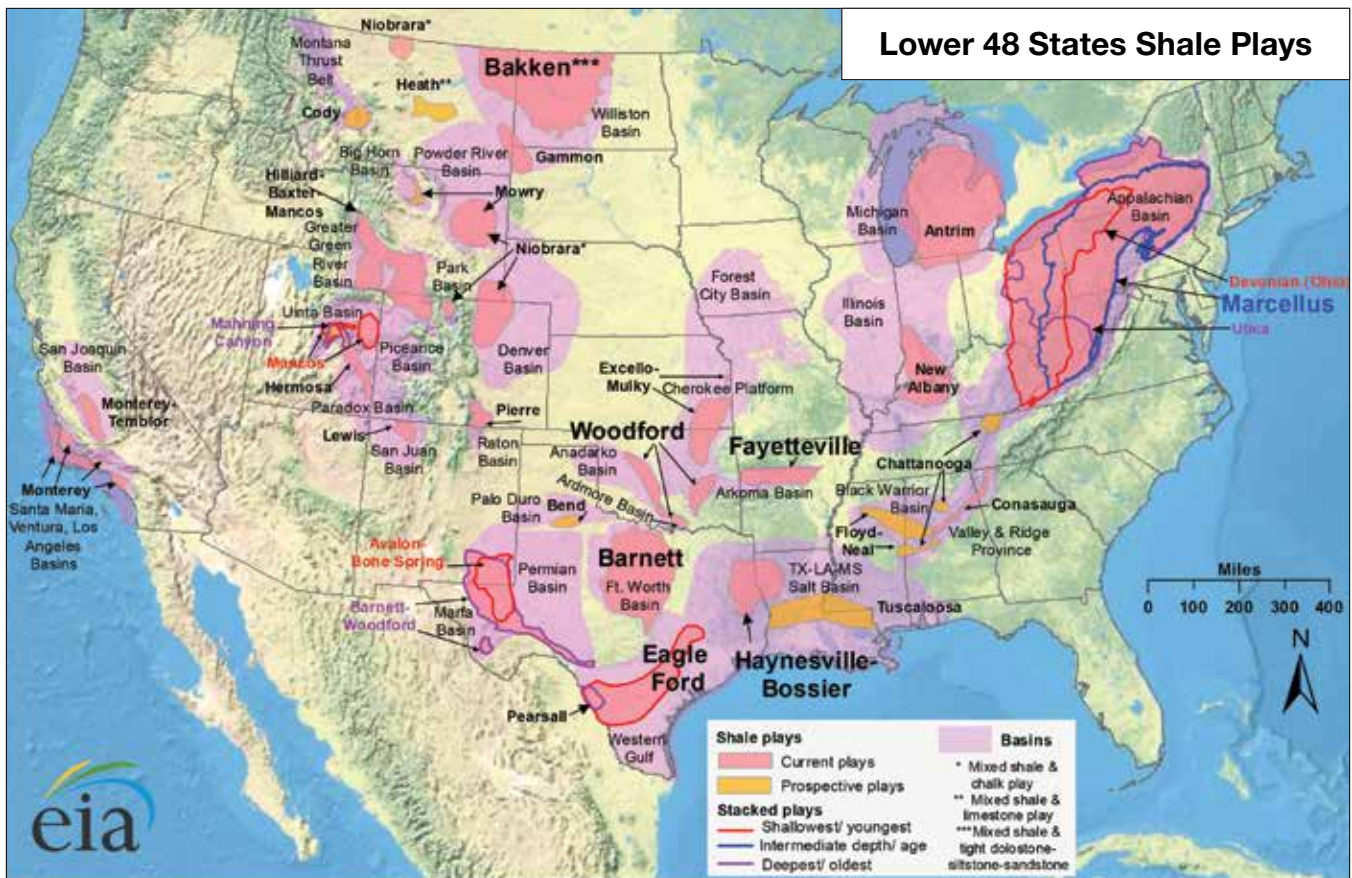


**RIG LIGHTING**

APPLICATIONS	TPC PRODUCTS
<b>Top Drive</b>	<ul style="list-style-type: none"> <li>• Super-Trex® RHH-RHW Single Conductor Power Cable</li> <li>• Super-Trex® Multi-Conductor Control Cable</li> <li>• Trex-Onics® Variable Frequency Drive Cable (VFD)</li> <li>• Trex-Onics® Encoder Resolver Cable</li> </ul>
<b>Mud Pumps</b>	<ul style="list-style-type: none"> <li>• Super-Trex® RHH-RHW Single Conductor Power Cable</li> <li>• Super-Trex® Multi-Conductor Control Cable</li> <li>• Chem-Gard™ Chemically Resistant Cables</li> </ul>
<b>Shale Shakers</b>	<ul style="list-style-type: none"> <li>• Super-Trex® Portable Cord</li> <li>• Trex-Onics® Variable Frequency Drive Cable (VFD)</li> </ul>
<b>Power Generation</b>	<ul style="list-style-type: none"> <li>• Super-Trex® Portable Power and Automation Cable</li> <li>• Super-Trex® Portable Cord</li> </ul>
<b>Rig Lighting and General Application</b>	<ul style="list-style-type: none"> <li>• Super-Trex® Portable Cord</li> <li>• Super-Trex® Welding Cable</li> <li>• Trex-Onics® Bus Cables—DeviceNet, Profibus, CAT6, CAT7</li> </ul>

## The TPC Difference

Oil and gas drilling operates in some of the toughest environments on earth. Cables are exposed to both extremes in weather and extremes in drilling conditions. TPC products are designed to last in applications where cables are exposed to chemicals, abrasion, heat, cold, flexing and constant motion and impact. TPC products are specifically designed to last longer than ordinary cables, reducing downtime and labor, anywhere cable failure is not an option.



## Cables, Connectors and Cable Carriers

TPC Wire & Cable Corp. takes pride in providing quality products that withstand your abusive environments. Our sales representatives will take the time to discuss your specific application and work with our engineering and product teams to help solve your application problems.

In addition to our in-line cables, TPC Wire & Cable Corp. has the ability to:

- **Design and manufacture custom cables** to solve unusual application problems.
- **Connectorize your cables** using a broad range of military connectors, amphenol, cannon and molded connectors.
- **Provide a cable carrier system** with cables, hoses and connectors, all pre-loaded, tested and ready to install out of the box.

### Want to Learn More?

Available for download at [www.tpcwire.com](http://www.tpcwire.com):



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