



CASE STUDY

RANGE RESOURCES CORPORATION USES FODS TO REDUCE INTENSE SURFACE IMPACT ON MARCELLUS FORMATION FRACKING SITE

BACKGROUND

Natural gas production in the US is at an all-time high, according to the reports from the US Energy Information Administration. The Marcellus Formation is the most prolific natural gas-producing formation in the Appalachian basin. Range Resources Corporation, one of the most active drillers in Pennsylvania and a member of the American Petroleum Institute’s Environmental Partnership, took measures to control dust and reduce intense surface impact.

Hydraulic fracturing or fracking is the process by which a high-pressure water, chemical, sand mixture fractures rock and releases the natural gas inside. To execute the fracturing process an average of 45 million L of water is required for a single horizontal well, according to the Groundwater Protection Council. This means between 890 to 1,340 trucks deliver this water, in addition to silica sand and chemical additives, to the well pad along rural roads that lack firm shoulders or rumble strips.

CHALLENGE

The dramatic growth of shale gas over the past decade, made possible by fracking, has led to huge volumes of salty wastewater called brine or produced water containing chemicals and naturally occurring radioactive substances. Thousands of truck trips and heavy equipment are required to transport water and chemicals and get rid of the flowback water generated by the hydraulic fracking process. This intense traffic has an intense surface impact on local roads and can cause significant road degradation, dust, and offsite debris.





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SOLUTION

Range Resources Corporation, one of the most active drillers in Pennsylvania and a member of the American Petroleum Institute's Environmental Partnership, took measures to control dust and reduce surface impact. Range Resources Corporation used FODS mats as a temporary construction entrance to their fracking site pad. FODS Trackout Control System is installed using FODS twelve feet wide by seven feet long mats, which link together to create a uniform composite trackout control system. The Range Resources well-pad entrance was arranged in a 24 feet wide by 35 feet long configuration.

The Best Management Practice of using FODS Trackout Control Mats significantly reduced the amount of dust and offsite debris associated with Range's fracking site trackout. FODS eliminated Range's concern about liability of rocks being displaced on public roads, dust control, and reduced overall surface impact on local roads. FODS LLC delivered the promised benefits as a cost effective, rapid install, reusable, and durable environmental solution to Range Resources Corporation's concerns.



ABOUT FODS, LLC.

Based in Englewood Colorado, FODS Trackout Control System replace ineffective and costly traditional rock stabilized construction entrances, saving you valuable time and money. Our proprietary mat design works to effectively remove mud and sediment from your vehicle tires without damaging the tire or the ground's surface. We provide the only durable, reusable, and environmentally friendly trackout control system currently available on the market. FODS Trackout Control Mats are 100% Made in the USA and are reusable and recyclable.