How smart PIGs keep pipelines safe

Smart PIGs are probes that clean and inspect pipelines to prevent leaks and environmental damage. In a natural gas line, PIGs are powered by natural gas pressure pushing them onward. Outfitted with computers, GPS, sensors and magnets that transmit data to engineers, smart PIGs can pinpoint any signs of trouble.

WHAT THEY LOOK FOR: Stress, corrosion, gouges, dents and cracks.

WHY ARE THEY CALLED PIGs? In addition to being an acronym for Pipeline Inspection Gauges, they also make a squealing noise when running through a pipe.

HOW BIG ARE THEY? When PIGs are used to inspect Duke Energy natural gas lines, they can be up to 18 feet long and can inspect pipes that are up to 30 inches in diameter.



PIPE WALL THICKNESS SENSORS are powerful magnets. CALIPER SENSORS measures any dents on the pipe. BATTERY AND DATA STORAGE CONTAINER



DRIVE CUPS for propulsion through the pipe.

ODOMETER WHEELS

keep the PIG centered in the pipe and measure speed and distance traveled.

Smart Clean Pigs

D Siedentop

Smart Clean Pigs:

Smart, Clean Pigs , Smart, Clean Pigs Allan Fowler,1993 Briefly describes where pigs live what they look like and how they behave Natural Gas Pipelines United States. General Accounting Office,1992 []]]]]]]]]]]]]]],2004 Great Smoky Mountains National Park Amy Graham,2008-10-01 Learn about the Great Smoky Mountains National Park s history and varied attractions as well as its resident wildlife Low pressure liquid pipelines in the North Slope, Greater Prudhoe Bay, Alaska: hearing, My Friend the Potbellied Pig Joanne Randolph,2010-12-15 Introduces the potbellied pig and provides information on whether to keep one as an indoor pet and on caring for a potbellied pig

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the pig through the system This strategy avoids rinsing loss of valuable product provides reduction of adverse environmental impacts and gains high efficiency for less investment The book describes clearly and methodically the important basic equipment required for the planning and design of pigging units Many practical examples are shown for the operation of industrial pigging units drawn from the authors longtime experience in this technology. In this form and scope the book is an unrivaled presentation of this technology Engineers and chemists who plan construct operate and maintain production plants in the chemical food cosmetics pharmaceutical and petrochemical industry will find an invaluable source of advice and reference for pigging units Advances in Natural Gas: Formation, Processing, and Applications. Volume 6: Natural Gas Transportation and Storage Mohammad Reza Rahimpour, Mohammad Amin Makarem, Maryam Meshksar, 2024-04-04 Advances in Natural Gas Formation Processing and Applications is a comprehensive eight volume set of books that discusses in detail the theoretical basics and practical methods of various aspects of natural gas from exploration and extraction to synthesizing processing and purifying producing valuable chemicals and energy The volumes introduce transportation and storage challenges as well as hydrates formation extraction and prevention Volume 6 titled Natural Gas Transportation and Storage is separated into three sections The first section discusses different natural gas transportation technologies such as LNG CNG ANG GTS etc The second section introduces related apparatus for natural gas transportation and storage including measurement systems compressors pumps etc as well as pipelines and controlling equipment The last section explains challenges of natural gas transmission including inhibition of pipeline corrosion cracking and wax deposition accompanied with pipeline cleaning challenges Introduces various natural gas transportation technologies LNG CNG ANG Describes different apparatus for natural gas transportation and storage Includes various challenges of natural gas transportation such as pipeline corrosion and wax deposition The Safety of Hazardous Liquid Pipelines United States. Congress. House. Committee on Transportation and Infrastructure. Subcommittee on Railroads, Pipelines, and Hazardous Materials, 2010

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