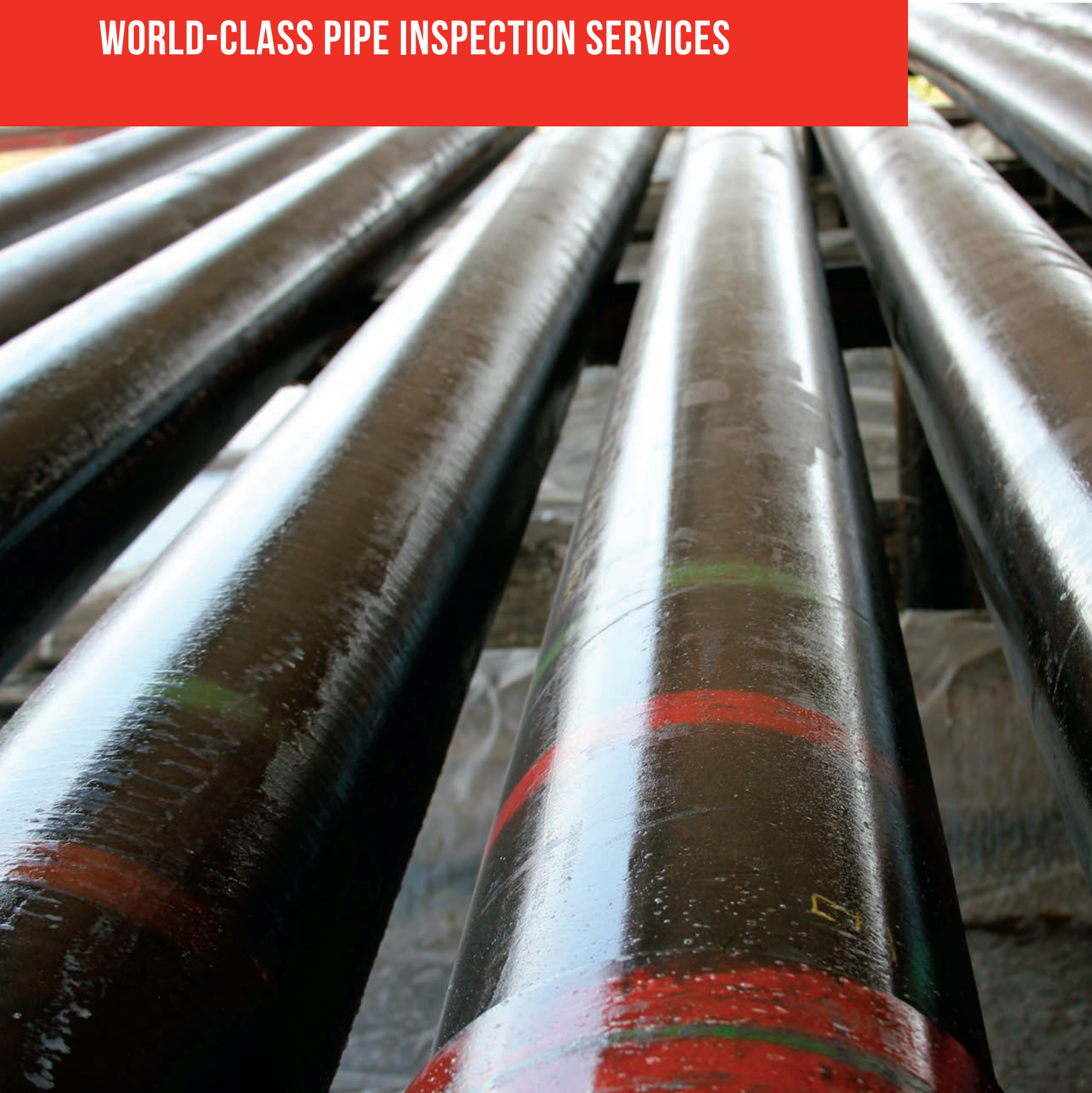




CUSTOMER FOCUSED.
TECHNOLOGY DRIVEN.

WORLD-CLASS PIPE INSPECTION SERVICES



PATTERSON TUBULAR SERVICES

MORGAN CITY, LOUISIANA

Strategically located for optimal transport capabilities, the Patterson Tubular Services (PTS) Morgan City facility offers 95 acres of storage and can accommodate the transload of oil country tubular goods (OCTG) by truck, rail, or barge, bringing value and versatility to customer operations. The onsite BNSF and Union Pacific-served rail spur can accommodate up to 14 railcars, and our Avoca Island Cutoff barge dock, located on the Intracoastal Canal, offers 14 ft of draft and 945 ft of bulkhead with direct barge access to the Gulf of Mexico. The dock has ample room to “buck doubles” and load them directly onto the barge with our high-capacity cranes, reducing costs and eliminating risks associated with road transport.

PTS Morgan City brings near real-time inventory data and movement information to oilfield services with exclusive online database access. Inspection personnel are trained and certified by an independent ASNT Level III inspector to Level I or Level II standards. For additional high-quality and professional assurance, our Quality Management System is certified by independent auditors to meet the requirements of ISO 9001-2015.

MORGAN CITY FACILITY OFFERS
94 ACRES OF STORAGE



PHASED ARRAY ULTRASONIC TESTING (UT)

PTS phased array UT units offer cutting-edge, full-length ultrasonic inspection technology with the highest documented repeatability in the industry of $\pm 2\text{dB}$. Our phased array units can inspect in the longitudinal, transverse, and oblique orientations, as well as perform numerous specialty inspection services. PTS phased arrays have proven extremely versatile since their introduction in 2006, employing the ability to quickly reconfigure and execute different types of inspections quickly and efficiently. Available specialty testing includes performing lamination inspection, OD ovality inspection, wall thickness measurement, and geometry mapping, including wall data acquisition. Our units can inspect within 1.5x the wall thickness of the end of a plain-end pipe and produce 50%, or greater, inspection overlap. Auditable digital inspection records are archived for three years or per customer requirements.



Capabilities and Benefits

- Industry-leading repeatability of $\pm 2\text{dB}$
- Inspection beam size and shape electronically optimized for anticipated defects
- Inspection overlap adjusted to meet specific requirements
- Able to inspect tubulars with large wall thickness ($>2\text{ in.}$)
- Minimal untested ends
- Compatible with ferromagnetic and non-magnetic materials

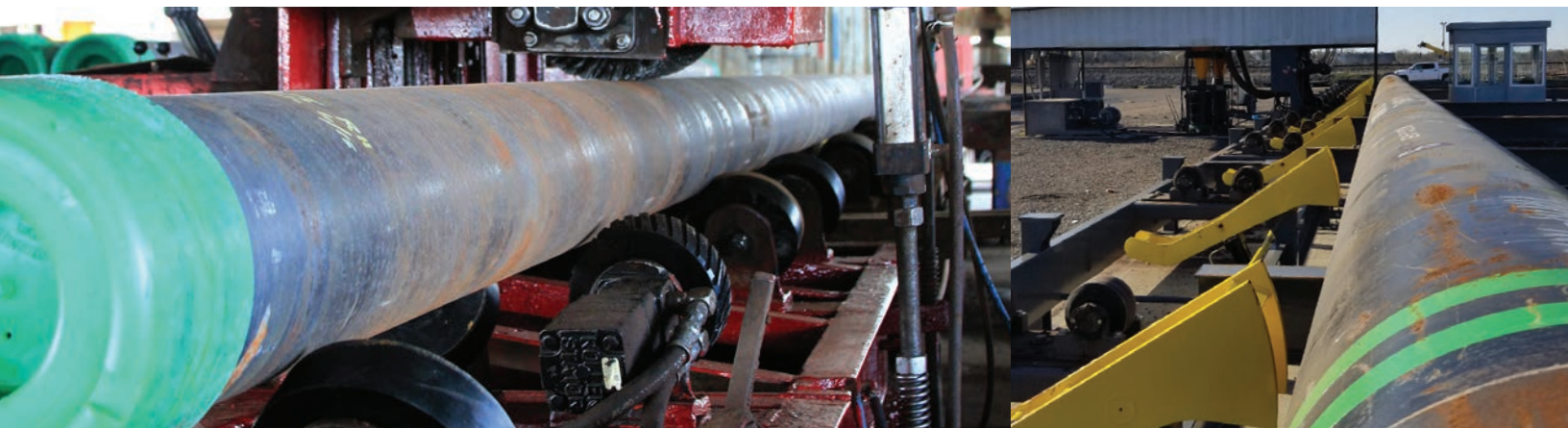
Features

- Can inspect most OCTG ranging from 2-3/8 to 18-in. OD and 8 to 48-ft length
- Can inspect tubulars with plane ends, upsets, threaded and coupled, and integral connections
- Detects flaws in the longitudinal, transverse, and oblique orientations
- Computer-programmable oblique inspection angles

MAINTENANCE SERVICES

Tubular maintenance and preparation are critical components of OCTG management. PTS can help maintain tubulars in like-new, ready-to-run condition with our custom-tailored maintenance and preparation programs. We offer brush and spray (including large OD), rig preparation, and rig return services to customer specification.

Brush and spray is a maintenance process used to clean and protect OCTGs. involve a maintenance process used to clean and protect OCTGs. We brush the outside of tubulars by helically conveying them under a fixed rotating brush head (either wire or synthetic nylon) to remove rust and scale from the surface. PTS Morgan City can brush up to 30-in. OD tubulars—ranging from 20 to 62 ft and weighing up to 31,000 lbs—in 10 minutes or less. Tubulars can then be sprayed with an environmentally friendly water-based varnish for long-term protection. Brush and spray services are frequently coupled with ID brush, full-length drift, visual condition check, visual thread inspection, or clean and re-dope services.



Rig preparation prepares tubulars for rig service to customer specification. It typically involves a visual thread inspection, full-length drift, and clean and re-dope with running compound.

Rig return is a value-added process that restores tubulars to usable condition for rig service, resale, or long-term storage after coming back from a rigsite. The service typically involves a visual thread inspection, visual condition check, full-length drift, silver nitrate test, and a clean and re-dope with storage compound.

SPECIAL END AREA (SEA) INSPECTION

Special end areas are the regions of a tubular not inspected by full-body systems such as a phased array UT. During an SEA inspection, the full circumference of the untested length, plus a 25% inspection overlap, is inspected on both the inner and outer diameters to ensure complete inspection coverage of the tube. Untested ends are generally limited to 18 in. or less in length and are inspected by wet or dry magnetic particle, liquid penetrant, or UT hand-scan method. All tests can be performed on tubulars with plain ends, upsets, threads, couplings, or integral connections.

INVENTORY

PTS Morgan City manages a comprehensive inventory system to monitor all material movement throughout the facility. Customers have exclusive online access to near real-time inventory and material movements. Inventory data can also be conveniently downloaded to an Excel spreadsheet for customer records and further analysis.

MISCELLANEOUS SERVICES

PTS provides the following supplementary services, making us your preferred, one-stop tubular services provider:

- Bolstering/Unbolstering
- Pre-Slinging Service
- Full Length Drift (FLD)
- Heat Number Verification Services
- ID Grinding
- Sample Cuts
- ID/OD Dimension
- ID/OD Fresh Water Rinse
- Laser Tally
- OD Drift
- Paint Bands
- Paint/Engrave Stencils
- Pipe Segregation
- Remove Mill Markings
- Replace Thread Protectors
- Thread Protector Visual Inspection
- Thread Gauge w/PD and Ovality
- Visual Thread Inspection (VTI)



QUALITY

Patterson Tubular Services is committed to providing high-quality services by exceeding customer requirements. We accomplish this through mandatory employee participation in regular professional development training along with continuous improvement of our ISO 9001:2015 certified quality management system.



HEALTH & SAFETY

We believe safety is a choice, which is why we strive for an incident-free work environment at all our facilities. Our Behavioral Improvement Safety Observation Network (BISON) helps facilitate our incident-free safety culture by encouraging contributions from each employee and operate under the best practices and procedures for which our operations are known.

ENVIRONMENT

We continuously strive to operate in a responsible manner and make business decisions with the environment in mind. Our goal is to be responsible stewards of our locations by minimizing our environmental footprint.

We work closely with environmental regulatory agencies to ensure compliance in managing our solid and liquid wastes, air pollutants, and accidental spill prevention measures. Some of the ways we have reduced our environmental impact include using biodegradable rust inhibitors, water-based coatings, and 100% recyclable Varsol substitutes.

Founded in 1945, Patterson Tubular Services, a business unit of RPC, INC. (NYSE:RES), is an accredited third-party inspection company providing non-destructive testing (NDT) of oil country tubular goods (OCTG) as well as logistics, maintenance, and storage services for customer OCTG inventory. PTS specializes in phased array ultrasonic testing (UT), a state-of-the-art inspection method for detecting discontinuities in tubular goods. The company also provides custom-tailored rig preparation, rig return, and tubular maintenance programs.

For more information on how PTS can serve your operation, visit pattersontubular.com today.



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