



# ESPRAT

Providing Turnkey Engineered Solutions

## Drilling Equipment Inspection Services

### Our Service

Regular inspection of OCTG components is an integral part of the quality assurance process and ensures drilling activities are conducted safely with no failures. ESPRAT offers inspection and refacing services for drill pipe, BHA and all completions equipment. We carry out full body length inspections utilising the latest inspection units in maintenance programmes and specifications. Our Head of OCTG has over 20 years NDT experience working to all relevant standards including DS-1, API and NS-2.

### Experience

Our experienced inspectors are highly trained and qualified to appropriate industry standards. Our inspectors draw on their expertise and experience to ensure an inspection product of the highest possible standard. Our inspection service works as a self-contained team on board any drilling unit / vessel, or land based site ensuring minimum disruption to day to day operations.

### Flexibility

ESPRAT can undertake inspections offshore and onshore, at workshops, pipe yards or remote drilling locations. Our equipment is calibrated as per inspection specification requirements. ESPRAT has all test joints available in its



inventory for checking buggies prior to inspection. Our equipment is extremely portable allowing us to mobilise to locations quickly and in a cost effective manner. Our portable refacing units ensure repairs can be conducted easily at any location.

### Quality Assurance

ESPRAT have been independently certified to ISO9001:2008 ensuring that we meet the stringent requirements expected of us by our customers. Our robust processes and procedures guarantee full traceability of our work from start to finish. Our in-house designed electronic management system,

OpSys, ensures that equipment and personnel are continually monitored to ensure compliance to all industry standards.

ESPRAT prides itself on our report packages, which are of the highest quality and can be tailored to individual client requirements. First hand reports are formulated in the field, on a daily basis, with computer generated test certification enabling the client to carry out any required repairs directly, post-inspection.

Inspection reports are maintained on a database and made available to customers through a protected file sharing application that allows for full traceability of products.



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### Drill Pipe Inspection

Drill pipe inspection is carried out at regular intervals determined by the client, accepted standards and practices and dependent upon drilling conditions and past history. ESPRAT utilises Techscope EZT-II electro magnetic inspection (EMI) units to provide mobile, electronic operations. The units allow for high speed operation and increased productivity. With its durable design and proven dependability it is engineered to meet or exceed the industry's toughest quality standards and harshest conditions. It is capable of inspection pipe sizes ranging from 2-3/8" to 6-5/8" OD.

Ultrasonic wall thickness gauging detects remaining wall thickness of tubing and ESPRAT's drill pipe end area inspection includes visual thread inspection, magnetic particle inspection (MPI) of connections, comprehensive data recording of measurements as per DS-1, API or NS-2 requirements and/or customer specifications. Our services include mechanical gauging of threads using lead gauges, micrometer and vernier calipers for precision measurements. Techniques used allows detection of:

Wireline damage, formation damage, cracks, pits and surface imperfections, such as outside / inside corrosion damage, outside



transverse and longitudinal slip and tong cuts, inside surface drill pipe wear and tranverse cracking.

### Bottom Hole Assembly Inspection

ESPRAT provides inspection of all BHA components, including drill collars, heavy weight drill pipe, cross overs, reamers, stabilisers and subs. Our inspections are carried out to DS-1, API, NS-2 and / or customer specifications.

All of our equipment is mobile and we carry refacing equipment to allow field repairs to be carried out

on minor damage to rotary shouldered connections. If damage is found to be more substantial, machine shop repair is required and ESPRAT will work closely with the machine shop to conduct a full reinspection post-repair.

### Specialty Tool Inspection

ESPRAT can carry out inspections on any specialty tools as per manufacturers / customer inspection standards by employing traditional NDT methods to ensure full compliance.



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## Mobile Tubular Cleaning Services



### Our Service

ESPRAT is able to offer a fully mobile tubular cleaning service which allows for full preparation of drill pipe for inspection at any location, no matter how remote.

Our cleaning units are self contained, and complete with all of the necessary components to allow for full ID and OD cleaning of tubulars.

### OD Tubular Cleaning

Our OD cleaning units are Australia's only fully mobile tubular cleaning solution and can be mobilised anywhere throughout the country. The units are powered by the supplied diesel generator and much like a fixed tubular cleaning system, the units work by rotating the pipe, while steel brushes rotate

Opposite directions to one another, with the brushing unit moved up and down the pipe. End results are comparable with fixed cleaning machines, with cleaning times significantly reduced from traditional manual methods.

### ID Tubular Cleaning

For ID cleaning we have both wet and dry cleaning options.

Our wet ID cleaning units consist of high pressure, skid-mounted, diesel powered water jetters, complete with a range of different nozzles allowing tubulars from 2-3/8" to 6-5/8" to be cleaned quickly and easily.

Our dry ID cleaning units are extremely portable, easy to operate and come as an integrated package with our dry OD cleaning unit.

Both wet and dry cleaning options come complete with portable bunded wash mats to ensure maximum environmental protection is achieved.

All of our equipment can be easily mobilised via semi-trailer.

### Operators

All cleaning units are supplied with trained and competent operators.

Where required multi-skilled personnel can be supplied to offer both the cleaning services and drilling tools inspection service.