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The company always pays attention to fulfilling its corporate responsibility and caring for social undertakings. Over the years, it has won numerous honors. Leaders at all levels of Xinjiang Autonomous Region and Bayin Guoling Prefecture have visited the company many times to guide and know about its development.
1.1 Company Overview

Andong Testing Company was established in 2002 and is the earliest private company engaged in oil field testing business in China. After more than 10 years of efforts, the total assets of the company is 32 million yuan, with seven domestic and three overseas operation bases and a number of on-site operation teams; more than 150 testing technicians constitute a professional testing team, including 12 ASNT qualifications, 75 qualifications of China Nondestructive Testing Society and 10 qualifications of Chinese special equipment testing. The testing range covers oil drilling tools, tools, rigs and derricks. The company provides testing and evaluation service in Tarim Oilfield, Tahe Oilfield, Tuha Oilfield, Sichuan Oil and Gas Field, Changqing Oilfield, Kazakhstan, Turkmenistan, Uzbekistan, Chad and Colombia and other foreign oilfields, and becomes the largest international third-party oilfield testing technology institution in China.
1.1 Company Overview

Lunnan Base Testing Workshop

Luntai Base Testing Area

Kuche Base Testing Workshop

Daerxian Base Testing Workshop
### 1.2 Company Qualification - Industry

<table>
<thead>
<tr>
<th>Certificate</th>
<th>Certification Authority</th>
<th>Certification Range</th>
<th>Certification Period</th>
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<tbody>
<tr>
<td>CNAS-Xinjiang Tongao</td>
<td>China National Accreditation Service for Conformity Assessment</td>
<td>Nondestructive testing of oil pipe, drilling tools and drilling and production equipment</td>
<td>2017.12.15—2023.12.15</td>
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<td>API Q2-Xinjiang Tongao</td>
<td>American Petroleum Institute</td>
<td>Testing and maintenance of drilling derrick</td>
<td>2018.04.12—2021.01.29</td>
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<td>DNV.GL-Xinjiang Tongao</td>
<td>DNV-GL</td>
<td>Nondestructive testing projects for ocean engineering</td>
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<td>API 5Q1-Xinjiang Tongao</td>
<td>American Petroleum Institute</td>
<td>Manufacture and inspection of tubing and casing</td>
<td>2018.04.12—2021.01.29</td>
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<td>CMA-Xinjiang Tongao</td>
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<td>Measurement of oil drilling tool testing data</td>
<td>2018.12.17—2024.12.16</td>
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**ANTON 安東**
### 1.2 Company Qualification - Industry

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<tr>
<td>Quality management system certification</td>
<td>Beijing Zhongjing Kehuan Quality Certification Co., Ltd.</td>
<td>Nondestructive testing and grading of drilling tools; nondestructive testing of tools</td>
<td>2018.02-2021.02</td>
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<td>Occupational health and safety</td>
<td>China Petroleum Health Safety Environment Audit Center of Beijing</td>
<td>Nondestructive testing technical service for petroleum special pipes</td>
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<td>Certificate of environmental management system</td>
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<td>2018.02-2021.02</td>
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### 1.3 Personnel Qualification-Nondestructive

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<tr>
<td>UT-3, MT-3</td>
<td>The Chinese Society of NDT</td>
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<td>ASNT UT-2</td>
<td>American Society for Nondestructive Testing</td>
<td>Pang Quan, Zhao Chong, Wang Liqui</td>
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<td>DNV</td>
<td>DNV</td>
<td>Cao Wenchao, Wu Pengyu</td>
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<td>China Association of Special Equipment Inspection</td>
<td>Wang Changxu, Liu Mingqiang, Lin Jingliang</td>
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1.4 Personnel Qualification-Nondestructive
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<tbody>
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<td>03</td>
<td>Chapter III Typical Project</td>
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## 2.1 Service Item

<table>
<thead>
<tr>
<th>Unit</th>
<th>Category</th>
<th>Detail</th>
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<tbody>
<tr>
<td>Petroleum pipes and</td>
<td>Petroleum</td>
<td>Various specifications of drill pipes, weighted drill pipes, drill collars, square drill pipes, crossover coupling, lifting joints,</td>
</tr>
<tr>
<td>Drilling &amp; Testing</td>
<td>tools</td>
<td>high-pressure manifolds, pipeline hangers, crushing jars, hooks, rings, tap coring barrels, flanges, gate cores, gate hooks, Christmas</td>
</tr>
<tr>
<td>Branch</td>
<td></td>
<td>trees, etc.</td>
</tr>
<tr>
<td>Drilling equipment</td>
<td></td>
<td>Oil rig, workover rig derrick, drilling platform and wellhead facilities, etc.</td>
</tr>
</tbody>
</table>
2.2 Service Area

- Karamay Oil Field
- Daqing Oil Field
- Jidong Oil Field
- CNOOC, Zhanjiang
- Sichuan Oil Field
- Tuha Oil Field
- Tarim Oil Field
- Northwestern
- North China, Central Plains
- Liaohe Oil Field
- Jidong Oil Field
- Shengli Oil Field
- Sichuan Oil Field
- CNOOC, Zhanjiang
- Middle East
- Chad
- North America
- Columbia
- North America
2.3 Oil Pipes and Tools

- Service Capacity
- Process Flow
- Main Equipment
- Personnel Qualification
- Quality Control
## 2.3.1 Service Capacity

<table>
<thead>
<tr>
<th>Item</th>
<th>Name</th>
<th>Productio Capacity</th>
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<tr>
<td>Content</td>
<td>Various specifications of drill pipes, weighted drill pipes, drill collars, square drill pipes, transfer joints, hoisting joints, high-pressure manifolds, pipelines, etc.</td>
<td>Testing: 400,000 pieces/per year</td>
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<tr>
<td>Remark</td>
<td>Special tools can be tested after making operation cards.</td>
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</table>
2.3.2 Process Flow

- 大钻具检测
  - 接受指令
  - 钻具接放
  - 螺纹检测
  - 几何尺寸测量
  - 钻杆检测
  - 管体检测
  - 几何尺寸

- 螺纹检测
  - 超声探伤
  - 磁粉探伤
  - 整体超声探伤
  - 外径
  - 内径
  - 密封面台肩
  - 总长

- 检测
  - 辉度
  - 管体ET检测
  - 管体测厚
  - 腐蚀坑检测
  - 加厚区UT检测
  - 接头外径
  - 接头长度
  - 密封面台肩

- 抽检
  - 待修
  - 分级
  - 检测确认
  - 报告
  - 成品
  - 钻具分类
  - 存储及返还
  - 废
  - 标识

- ANTON 安东
2.3.3 Main Equipment

American OEM and EMT Drill Pipe Electromagnetic Testing System

Ultrasound Testing

Fluorescent Magnetic Particle Testing
2.3.4 Main Equipment

IV380M Endoscope  
DM5E Thickness Gauge  
Pit Gauge

Supersonic reflectoscope CTS2020, 9006, sonar 380, portable drill pipe electromagnetic testing system
2.3.5 Cleaning Equipment

Drill pipe cleaning device: thoroughly clean the inner and outer walls of drill pipe, 300 pieces per day

Fully automatic control console: it can realize the whole process monitoring of drill pipe transmission and cleaning

Water tank: maximum water storage capacity 24,000 liters

Circulating flume: realizing recycling of drill pipe cleaning fluid
## 2.3.6 Personnel Qualification

<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>Gender</th>
<th>Age</th>
<th>Position</th>
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</tbody>
</table>
2.3.6 Personnel Qualification
2.3.7 Quality Control

- **机构保证**
  - 组织机构落实
  - 岗位职责分配
  - 配备资源

- **环境保证**
  - 环境设施到位
  - 监控记录

- **设备保证**
  - 设备到位
  - 正常维护维修
  - 定期校准

- **人员保证**
  - 培训考核
  - 上岗操作
  - 定期培训

- **方法保证**
  - 确定标准
  - 编写细则
  - 验证比对

- **抽样/送样**
  - 样品接收、处置
  - 外购耗材
  - 分包

- **检测过程质量控制**
  - 仪器设备确认
  - 保证在有效期内

- **环境、设施确认**
  - **样品接收、处置**
  - 数据、记录控制

- **设备原因**
  - 人为原因
  - 采取补救措施

- **不符合工作控制**
  - 编制计划
  - 程序

- **文件控制**
  - 文件

- **管理评审**
  - 制定计划

- **内审**
  - 制定

- **申诉处理**
  - 相关部门受理

- **结果数据是否正确**
  - 有
  - 向客户通知

- **持续改进**
  - 纠正措施跟踪验证

- **内部质量反馈**
  - 制定计划
  - 实施审核

- **检查表**
  - 检查

- **会议纪要**
  - 修改体系文件

- **首席执行者主持会议**
  - 讨论决策

- **计划**
  - 分议题准备

- **报告/证书编制**
  - 服务客户
2.3.7 Quality Control

The equipment, probe and test block in use are regularly checked and marked to ensure their use within the validity period.
2.3.7 Quality Control

Work instructions and process cards clearly specify preparation, instrument adjustment, defect assessment, record and report during the testing process, and the whole testing process is controlled.
## 2.3.7 Quality Control

<table>
<thead>
<tr>
<th></th>
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<tr>
<td>2</td>
<td>Nondestructive Testing Contact Ultrasound Pulse Echo Method for Thickness Measurement</td>
<td>GB/T 11344-2008</td>
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<td>Nondestructive Testing of Pressure Equipment Part III Ultrasound Testing</td>
<td>NB/T47013.3-2015</td>
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<td>5</td>
<td>Nondestructive Testing of Pressure Equipment Part IV Magnetic Particle Testing</td>
<td>NB/T47013.4-2015</td>
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<td>Nondestructive Testing of Pressure Equipment Part V Permeation Testing</td>
<td>NB/T47013.5-2015</td>
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<td>7</td>
<td>Nondestructive Testing Methods for Oil Well Tubing Part III: Magnetic Particle Testing for Drilling Tool Threads</td>
<td>SY/T 6858.3-2012</td>
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<tr>
<td>8</td>
<td>Management and Use of Petroleum Drilling Tools Square Drill Pipe, Drill Pipe and Drill Collar</td>
<td>SY/T 6858.4-2012</td>
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<td>9</td>
<td>Nondestructive Testing Method for Oil Well Pipe Ultrasound Thickness Measurement</td>
<td>SY/T6858.5-2016</td>
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<td>10</td>
<td>Drill Pipe Classification and Testing Method</td>
<td>SY/T 5824-1993</td>
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<td>11</td>
<td>Scrap Technical Conditions of Drilling Tools</td>
<td>SY/T 5956-2004</td>
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<td>12</td>
<td>Non-ferromagnet Thread Penetration Testing of Oil Well Pipe</td>
<td>SY/T 6508-2000</td>
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<td>13</td>
<td>Drill Thread Ultrasonic Testing Specification</td>
<td>Q/SY TZ0266-2010</td>
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<td>14</td>
<td>In-service Drill and Tubing Electromagnetic Testing Specification</td>
<td>Q/SY TZ0265-2010</td>
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2.4 Drill Equipment

- Service Capability
- Process Flow
- Main Equipment
- Personnel Qualification
- Quality Control
<table>
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<th>No.</th>
<th>Name</th>
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<tr>
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<td><strong>Content</strong></td>
<td>Oil rig, workover rig derrick, drilling platform and wellhead facilities, etc.</td>
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<td></td>
<td><strong>Remark</strong></td>
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</tbody>
</table>

**2.4.1 Service Capability**
2.4.2 Process Flow

钻机井架检测工艺流程图

安东检测公司

钻机底座检测

开始 → 作业前准备 → 预处理工序 → 超声波探伤 → 荧光磁粉探伤 → 现场清理 → 结束

井架检测

开始 → 作业前准备 → 预处理工序 → 超声波检测 → 荧光磁粉探伤 → 几何尺寸测量 → 动静态平衡测试 → 钻机井架评估 → 钻机井架评估报告 → 资料收集与归档 → 现场清理 → 结束
2.4.2 Introduction of Main Process Flow
2.4.2 Introduction of Main Process Flow

- Dynamic and Static Balance Testing of Drilling Derrick-Bonding and Welding of Strain Gauge

(1) The patch part is polished with grinding wheel, cleaned with sandpaper, and then wiped with acetone or anhydrous ethanol.

(2) Firstly, the copper contact (terminal) is bonded to the polishing place with 502 glue, and then the strain gauge is bonded to the copper contact.

(3) Weld the conductor on strain gauge separately, and check whether the stress gauge and the conductor are short-circuited with multimeter (no short-circuiting).

(4) Connect the wires with the wireless collector in a counterclockwise direction.
2.4.3 Main Equipment

Dynamic and Static Stress Analysis Test and Analysis System

It is suitable for product performance testing and multi-channel analog signal (voltage, current, temperature, flow, strain, etc.), digital signal acquisition, monitoring, analog and digital output in various industrial environments. It is suitable for composing distributed data acquisition and process control system with various microcomputers.
2.4.3 Data Analysis of Dynamic and Static Stress Equipment

Data Acquisition and Analysis of Dynamic and Static Balance Testing of Derrick
2.4.3 Data Analysis of Dynamic and Static Stress Equipment

Data Acquisition and Analysis of Dynamic and Static Balance Testing of Derrick
2.4.4 Main Equipment

IV380M Endoscope

DM5E Thickness Gauge

Pit Gauge

Supersonic reflectoscope CTS2020, 9006, sonar 380, portable drill pipe electromagnetic testing system
### 2.4.5 Personnel Qualification

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2.4.5 Personnel Qualification

ANTON 安東
2.4.6 Quality Control

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2.4.6 Quality Control

Work instructions and process cards clearly specify preparation, instrument adjustment, defect assessment, record and report during the testing process, and the whole testing process is controlled.
2.4.6 Quality Control

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<tbody>
<tr>
<td>1</td>
<td>Inspection, Maintenance, Repair and Use of Drilling and Workover Derricks and Substrates</td>
<td>API Spec 4G-2012</td>
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<tr>
<td>2</td>
<td>Specification for Drilling and Oil Production Lifting Equipment</td>
<td>API Spec 8C</td>
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<td>3</td>
<td>Specification for Control System of Drilling Well Control Equipment</td>
<td>API Spec 16D</td>
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<td>4</td>
<td>Specification for Drilling and Oil Production Lifting Equipment</td>
<td>API Spec 8A</td>
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<td>5</td>
<td>Specification for Drilling Equipment</td>
<td>API Spec 7K</td>
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<td>Nondestructive Testing</td>
<td>ASME V</td>
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<td>Nondestructive Testing Contact Ultrasound Pulse Echo Method for Thickness Measurement</td>
<td>GBT 11344-2008</td>
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<td>Technology, Testing Grade and Evaluation of Nondestructive Testing of Weld Seam and Ultrasound Testing,</td>
<td>GBT 11345-2013</td>
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<td>Test and Assessment Method and Classification Specification for Bearing Capacity of Derrick Base of Oil Drilling and Workover Rig</td>
<td>SY/T 6326-2012</td>
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<td>Water Taps for Oil Rigs and Workover Rigs</td>
<td>SY/T 5530-2013</td>
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<td>12</td>
<td>Specification for Acceptance of Oil Rigs and Workover Rigs</td>
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<td></td>
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</tbody>
</table>
3.1 Typical Projects

**PetroChina Tarim Oilfield**

**Independent General Contracting Testing Service Provider of Tarim Oilfield**

- **Classified testing of drilling tools**
  - Over 250,000 pieces were tested in 2002-2014
  - 470,000 pieces were tested in 2013

- **Wellhead tool testing**
  - Over 500,000 pieces were tested in 2002-2014
  - 170,000 pieces were tested in 2013
3.2 Typical Projects

Sinopec Northwest Oilfield Branch

Main Testing Service Provider of Tahe Oilfield

Classified testing of drilling tools

• Over 150,000 pieces were tested in 2002-2014
• 120,000 pieces were tested in 2013

Wellhead tool testing

• Over 300,000 pieces were tested in 2002-2014
• 50,000 pieces were tested in 2013
3.3 Typical Projects

**PetroChina Chuanqing Drilling**

- **Classified testing of drilling tools**
  - Over 300,000 pieces were tested in 2012-2014
  - 120,000 pieces were tested in 2013

- **Wellhead tool testing**
  - Over 90,000 items were tested in 2012-2014
  - 40,000 pieces were tested in 2013

**Independent General Contracting Testing Service Provider of Chuandong Drilling**
3.4 Typical Projects

**Zhananol Oilfield, Kazakhstan**

- **Classified testing of drilling tools**
  - Over 500,000 pieces were tested in 2009-2014
  - 140,000 pieces were tested in 2013

- **Wellhead tool testing**
  - Over 120,000 items were tested in 2009-2014
  - 50,000 pieces were tested in 2013
3.5 Typical Projects

**Meta Oilfield, Columbia**

- **Classified testing of drilling tools**
  - Over 120,000 pieces were tested in 2010–2014
  - 40,000 pieces were tested in 2013

- **Wellhead tool testing**
  - Over 50,000 items were tested in 2010–2014
  - 20,000 pieces were tested in 2013
3.6 Typical Projects

Meta Oilfield, Columbia

- Derrick Testing • Testing 12 rig derricks in 2014-2015

- Steel Wire Testing • Testing steel wire for more than 3000 meters in 2014-2015

CERTIFICATION

ANDES PETROLEUM COMPANY SAS

We certify that ANTON OILFIELD SERVICE SUCURSAL COLOMBIA, identified with NIT 900.514.624-7 and established in Bogota, has maintained trade relations with ANDES PETROLEUM COMPANY SAS, for providing inspection service of Drilling rig masts and structures.

It is issued at November 10th, 2014.

Sincerely

Andes Petroleum Company SAS
3.7 Typical Projects

Zhananol Oilfield, Kazakhstan

- Testing 10 rig derricks in 2014-2015
- Testing steel wire for more than 2500 meters in 2014-2015

3.7.2 Typical Projects

Derrick Testing

- Testing 10 rig derricks in 2014-2015

Steel Wire Testing

- Testing steel wire for more than 2500 meters in 2014-2015

Prueba Negocio

| PARTE A | SERINCO DRILLING S.A.
|---------|-------------------
| ARTÍCULO | EQUIPOS Y HERRAMIENTAS DE PERFORACIÓN, SOLIDAR HANDANDING, REPARACIÓN DE ROSCA |

Evaluación: desde 2012, antoio nos ofreció los servicios de perforación y solidar handanding, reparación y alineación. Los trabajadores de antoio pueden cumplir con las tareas disponibles con eficiencia, son responsables y profesionales. Deseo que podamos cooperar profundamente en el futuro y para obtener más éxito.

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2015 年 7 月 25 日
THANKS!
Helping others succeed...