

Bore - Pump - Pump Jack - Electric Motor Driven

| Last Issue Date: 30/01/2008 |   | Type Of Service |   |   |   |   |
|-----------------------------|---|-----------------|---|---|---|---|
| Activity                    |   | A               | B | C | D | E |
| 1                           | <p>BORE DATA SHEET</p> <p>The Bore Data Sheet shall be used in conjunction with this Technical Data Schedule and shall have all sections acknowledged and details of equipment, tests, findings and results recorded.</p>   |                 |   |   |   | Y |
| 2                           | <p>WATER SAMPLING AND TESTING</p> <p>Water sample to be:-</p> <ul style="list-style-type: none"> <li>- collected in an approved sterile container.</li> <li>- processed/tested within 24 hours of collection.</li> <li>- analysed for iron bacteria and iron levels.</li> <li>- tested by NATA or ISO registered body or organisation.</li> </ul>   |                 |   |   |   | Y |
| 3                           | <p>BOREHOLE TREATMENT</p> <p>Treat borehole with approved sterilising and disinfecting agent.</p> <p>*Note: Prior approval to be obtained and work to be carried out in accordance with the authorising agents requirements and instructions.</p>   |                 |   |   |   | Y |
| 4                           | <p>GEARING</p> <p>Check condition and operation of:-</p> <ul style="list-style-type: none"> <li>- pinions and gearwheels, especially backlash.</li> <li>- pinion, main and gearwheel bearings.</li> <li>- connecting rods and crankpins.</li> <li>- crosshead, guide loop and guide roller.</li> <li>- oiling system to ensure operating correctly.</li> <li>- pulley to ensure it is secure and especially for any signs of wear.</li> </ul> <p>Drain oil from reservoir, flush reservoir clean and refill with fresh oil to manufacturer's specifications, if applicable.</p> |                 |   |   |   | Y |
| 5                           | <p>ELECTRICAL CONTROLS</p> <p>Check condition and operation of all electrical controls including:-</p> <ul style="list-style-type: none"> <li>- all safety devices.</li> <li>- overloads and circuit breakers.</li> <li>- switches, indicator lamps and alarms.</li> <li>- contactors and relays, especially for noise and/or wear.</li> <li>- all control equipment and sensing devices.</li> <li>- all terminals and connections for contact,tightness and corrosion.</li> <li>- control cabinet,especially hinges,locks and for general cleanliness</li> </ul>               |                 |   |   |   | Y |
| 6                           | <p>ELECTRIC MOTOR</p> <p>Check condition and operation of motor including:-</p> <ul style="list-style-type: none"> <li>- current reading on all phases under load against manufacturer's specified ratings.</li> <li>- winding integrity.</li> <li>- insulation integrity.</li> <li>- voltage between phases under load.</li> <li>- all terminals and connections for contact,tightness and corrosion.</li> </ul>   |                 |   |   |   | Y |

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Government of South Australia  
Department of Planning,  
Transport and Infrastructure

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| <b>Activity</b>             |   |                 |   |   |   |   |
|                             | <ul style="list-style-type: none"> <li>- motor bearings.</li> <li>- condition, security and alignment of pulleys.</li> <li>- condition, alignment and tension of V belts.</li> </ul>  |                 |   |   |   |   |
| 7                           | <p>DIFFERENTIAL COMPENSATOR</p> <p>Check barrel and install new buckets or cups.</p> <p>Check condition and operation of:-</p> <ul style="list-style-type: none"> <li>- compensator rod and connecting rod especially for straightness, damage or corrosion.</li> <li>- compensator rod especially for correct alignment with its connecting rod.</li> </ul>  |                 |   |   |   | Y |
| 8                           | <p>PUMP, COLUMN AND PUMP ROD</p> <p>Check column pipe especially for any signs of damage or corrosion.</p> <p>Withdraw pump rods from column and check condition especially for straightness, damage, wear or corrosion.</p> <p>Check rod sockets especially for wear, damage, fractures or corrosion.</p> <p>Check condition and operation of pump including:-</p> <ul style="list-style-type: none"> <li>- barrel.</li> <li>- fit new buckets or pump cups.</li> <li>- ensure plunger rod is secure in plunger cage.</li> <li>- plunger valve/s and bottom valve for wear and correct sealing.</li> </ul> <p>Check condition and operation of footvalve including:-</p> <ul style="list-style-type: none"> <li>- dismantle and service all components.</li> </ul> |                 |   |   |   | Y |
| 9                           | Check bore pit, plinth and/or shed floor is clean & free of any debris  |                 |   |   |   | Y |
| 10                          | Provide completed copy of service report sheet and written report on tests, results, findings and any recommendations.  |                 |   |   |   | Y |
| 11                          | Record all results in log book.   |                 |   |   |   | Y |

**Special Comments and Technical Data**

- \*ALL CARE SHOULD BE TAKEN AND EQUIPMENT STERILISED WITH AN APPROVED STERILISING AGENT TO PREVENT THE TRANSFER OF ANY CONTAMINATION, ESPECIALLY IRON BACTERIA.
- \*APPROVED STERILISING AGENT, SODIUM HYPERCHLORIDE 12% AT THE RATE OF 120 MG/LITRE, EQUATING TO 120 PPM.
- \*ENSURE BORE SITE IS LEFT FREE OF ANY CONTAMINANTS OR REFUSE E SERVICE AS REQUIRED NOT AT ANY SPECIFIC FREQUENCY. REFER TO S24 OR S24AA FOR ROUTINE MAINTENANCE.

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