



Surveyor General's Office.  
Brisbane March 1889.

Circular Memorandum  
To Mr. Lieut Surveyor

Requirements and general instructions in connection with the survey of Grazing  
Farms

These surveys may be carried out with the circumferential (the needle of which, not less than 4 inches in length, must be in perfect working order) and steel band. The latter may be 5 chains in length where the country will admit of its use.

An allowance of .00318 link per 330 feet must be made for each degree of Fahrenheit over or under the temperature at which the tape was standardized, a fixed strain or tension, by means of a spring balance, being applied. Boundaries of portions are to follow cardinal bearings as far as practicable; but where the country is altogether unsuitable for grazing purposes, or the leading features justify a departure, it is left to the discretion of the surveyor to adopt other bearings; wherever practicable, existing fences are to be adopted as boundaries of the farms.

Economy in fencing, that is to say the enclosure of a farm by the shortest surrounding boundaries, and the location of the boundaries in positions where fences can be easily erected, is of great importance and must be kept in view.

Large areas of unavailable scrub and worthless broken country should be excluded, but where such would not exceed 1/5 of the total area of the portion they may be included in survey, in order that a rectangular and symmetrical form for portions may be maintained.

Where Ranges or well defined watersheds are adopted as boundaries of Grazing farms it is not required that lines and corner posts with reference trees should be marked to fix such boundaries, but in lieu thereof the surveyor is to determine the position by ordinary traverse, and by driving in sound pegs (say 2" square 15" long 12" in the ground) at each station; in addition to which the nearest stations at distances 1 mile apart are to be marked by substantial posts and reference trees in the manner laid down in the Regulations; for these latter, payment will be allowed at usual rate of 2/6 each. The same course is also to be followed in the case of rivers & creeks where forming external boundaries between the land or farm being surveyed and vacant crown land.

Previously surveyed boundaries, whether those of Grazing or Agricultural farms should not be resurveyed in any case unless under special instructions, but connections only will be required to one or more of the above mentioned marked stations or corner of an Agricultural farm as the case may be.

Rivers or creeks which have already been surveyed are not to be again traversed, connections only being established with the nearest marked tree. Copies of plans of rivers &c. will be supplied from this office when required.

In all other respects the marking of the portions is to be strictly in accordance with the rules of the Department respecting field operations. At some convenient point in the survey the variation of the needle must be determined, and the result communicated to the office and also noted on plan.

After inspection of the country, a design of the proposed arrangement of farms is to be submitted to the Surveyor General; permanent marking should not be proceeded with until the design has been approved.

### Roads.

Roads in present use, and those necessary for access to portions only, are to be marked as specified below, but such roads as may be required at some future time through portions, for access to adjoining lands, whether leased or otherwise, should be provided for by reserving sufficient areas in those portions likely to be intersected.

Main stock routes are to be, as a rule, 1 Mile wide, but may be reduced in places if circumstances render such a course desirable. Roads over 3 chains wide and roads for stock driving, (10 chains wide,) where forming boundaries of portions, are to be marked on both sides, but on one side only where they intersect portions. Roads separating portions should not be less than 3 chains wide, and require marking on one side only. Where roads are marked on one side only the opposite angles, at changes of bearing, are to be fixed and marked on the ground and the width offsetted, pegged, trenched &c. at distances as far apart as will enable fencers to follow the lines, offsets to be entered in field book & shown on plans. See clauses 60 and other clauses relating to Roads. - General Directions for Surveyors.

### Reserves.

Reserves for travelling stock, and for other purposes in connection with the requirements and conveniences of selectors and the general public, are to be provided. Also reserves must be provided to include sites which have been selected by the Government or by Divisional Boards for Dams, Boring operations &c. and for the supply and conservation of water. See clauses 68, 69 General Directions.

### Payment of Accountants.

Payment for the survey of grazing farms will be at the rate of (30/-) thirty shillings per lineal mile, and 30 per cent additional will be allowed for lines through dense scrub only (ordinary scrub will not be allowed for) together with the usual payment for corners and for inspecting the country to enable you to furnish design for farms. No extra District allowance is paid for this class of work.

Wm Davidson  
for Sur. Genl