

Supplementary Material 4

Herman Beckler. Notes on plants by Herman Beckler, Including remarks on plants collected on a journey from Darling River depot to Duroodo swamp, 24 Dec 1860 – 3 January 1861. 9 pp. Records of the Burke and Wills Expedition, 1857–75. [manuscript]. State Library of Victoria. SLV MS 13071. Box 2082/5c.

Transcribed by Beverley Wood.

Herman Beckler. Notes on plants by Herman Beckler, Including remarks on plants collected on a journey from the Darling River depot to Duroodoo swamp, 24 Dec 1860 – 3 January 1861¹

1.

Remarks on plants collected on a journey from the depot Darling River to the swamp Duroodoo

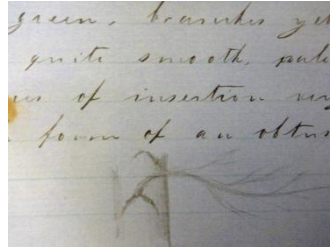
- Decbr. 24.** [p1.] **Nandurungee Creek.** About the camp and the adjacent sandhills. Sand pale red, loose, deep, country undulating.
- Nro 1. Low shrub, branchy and leafy. Bark dark grey. Younger branches smooth with white pimples. Older parts of the epidermis split longitudinally and horizontally, furrows superficial, bottom yellowish, H. 4.' diam. 2½ - 3" Flowers scentless, corolla pale yellow with pink streaks and darker red spots sparingly distributed oil cells. The outwards turned lobes of the corolla containing many red spots.
- Nro 2. Fine shrub of frequent occurrence of slender habit, branchlets bending and leaves drooping. Branches and stem almost white, whitish-grey, smooth, with small pimples and horizontal cicatrice. H 3 – 7', diam. 1 - 1¼".
- Nro 3. Long, slender herb, some 4' h.
- Nro.4. Conifera. Tree 20' -25 h. diam. 4". straight, branchy, branches tapering towards the top.

¹ The data recorded has been placed in columns, to assist the reader.

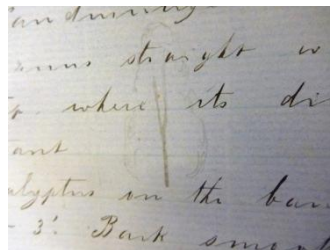
Bark grey. Fissures in different layers crossing each other spirally.

A beautiful tree, always of the same outline, sending branches from the base tapering, branchy and leafy, unfortunately without blossoms or fruits. H. 25'. diam. 7 – 8".

Branches bending outwards, some drooping, leaves of a bright characteristic green, branches yellow or reddish, smooth trunk quite smooth, pale red, almost flesh-colour, cicatrices of insertion very remarkable black, rough in the form of an obtuse angle opening downwards.



- Nro 5. [p2]. This tree I met with first about half-way between Bodurga and Nandurungee in a single specimen. Here (Nandur.) it is of frequent occurrence but its proper habitat on the sandhills between Nandurungee and Wonamenta Creeks. The trunk runs straight without dividing until near the top, where its division is characteristic and constant



- Nro 6. Eucalyptus on the bank of the creek. H. 40 - 50' diam. 2½ - 3'. Bark smooth all over, seems to shed its bark in irregular flame-like pieces, lower side of branches whitish-green, as if dusted with flour, upper side of a deep yellow bronze like colour with almost metallic lustre.

Decemb. Camp at the swamp Duroodoo [Dooroadoo].

27.

Sandhills par excellence. Sand red, loose, very deep. Most of the plants have roots of an enormous length.

- Nro 1. Tree, 12 - 15' h. diam. 4 – 5". Never met with anywhere else. Foliage thick in branches of a lively green, branches few, small, bending and drooping. Bark light grey, scales large, very rough, at the margin, consisting of many epidermis layers, these of paper-

- Nro 4. Shrub, 3 - 4' h, diam. ½," leafy, spreading with many branches. Bark light grey, closely and net like furrowed, older branches rough, scales blackish, connected, angular, not uneven.
- Nro 5. Little shrub, 2½ - 3' h., radiating, very branchy and leafy, dense, round, bark light grey, not quite smooth, fissures small, linear, black.
- Nro 6. Tree or shrub, 10 - 12' h. dividing at the base into many branches, diam. 4," branches radiating, running out almost horizontally, branchy and leafy, bark white-gray, almost white, smooth with a light green hue, at the base furrowed in long narrow, band-like connected strips, furrows long, dark.

Decemb. Mountain Goningberri.

30.

Arrived there in the afternoon, the day being very hot, I preferred to collect on the hills, and along the numerous dry creeks close to the Mount proper.

- Nro 1. Small tree. Rich drooping foliage, drooping branches. Bark grey, with dark grey sulci, small, dark [excisions?], scales longish rough, edges little upturned, fissures deep, narrow brown, scales laminated. (Found before)
- Nro 2. An Acacia. This tree and another shrub like species have at a short distance quite the appearance and the habit of coniferae. H. 12 - 15', diam. 4 - 6". bark ashgrey. Younger branches have white horizontal marks, scales networklike, sometimes twisted, adherent, connected, fissures rough, brownish, not deep.
(N. 1 - 2 are from near a creek, about 3 miles from the mountains, all the rest from the immediate proximity of the mount)
- Nro 3. [p4.] Shrub, 10' h, diam. 3". dividing at the base into several branches, branchy. Foliage rich, drooping. Bark dark grey, rough, superficially broken, scales sitting in the superficial sulci scales rough, adherent little prominent, dark sulci brownish.
- N. 4. Shrub, 4-5' h, diam 1", branchy, not spreading bark light grey, little rough, marked for fissures, fissures brownish not deep, epidermis bursting into small, narrow connected pieces, of dark grey.
- N. 5. A poor, slender, thinny [thorny] shrub, branches and foliage drooping, bark grey, almost white little rough, fissured superficially, below a few dark fissures with rough edges and dark pimples. H 8'diam 1½".
- N. 6. Thin, slender, shrub, bark almost white, little rough, fissured, fissures reticulate, superficial scales or pieces of bark, adherent and connected.
- N. 7. Shrub, 4' h. diam 1½". radiating, little spreading, branchy, not leafy, branchy, bark blueish, dark grey, smooth, entire, below a few fissures, longish rough, scales thin.

- N. 8. Shrub, ... [?]' 3 ½' h. spreading branchy and leafy. Bark ashgray, smooth, with white horizontal marks, very slightly fissured.
- N. 9. Shrub, round, radiating and spreading 4' h. 1" diam. Branchy and leafy, bark ashgray, rather smooth, [slightly] but narrowly fissured, fissures linear, scales not prominent, brownish, only at the base.
- N. 10. Small shrub, branchy, little spreading h. 4' diam ¾" bark ashgray, slightly and narrowly fissured.

2

- N. 11. [p5.] Tree 15 – 35' h, diam. 6 – 8". Mostly straight, not very branchy leaves in bunches, bark very rough, solid looking, scales large, longish, rough, prominent fissures deep, rough, scales as well as fissures almost black. A splendid tree on the side of mountain watercourse, some also noticed on Balrumati C. [Creek] distant 6 miles from Goningberri.
- N. 12. Shrub, spreading gradually, 4 - 5' h, diam. 2". white-grey smooth, lower down fissured, scales reticulate, of equal breadth, thin and flat, fissures not deep, brownish.
- N. 13. Slender thiny [thorny] shrub, spreading towards the top, bark ashgrey fissured up to the smaller branchlets, fissures reticulate, epidermis connected, adherent, not prominent, whitish below the fissures, narrow, linear, brownish, superficial scales adherent connected, dark not rough.
- N. 14. Shrub, 5 - 6' h. diam 2". spreading from the ground upwards, bark grey, brownish, slightly fissured or fissures marked below narrow and well defined fissures, scales broad adherent, thin, not rough, fissures brown.
- N. 15. Shrub, trunk dividing at the base in several strong branches (shrub of large circumference, branchy and leafy, spreading, 10 - 12' h, 2½" - 3" diam, bark thin, white, pliable paper-like layers, stripping easily.
- Note. These plants are from the lesser elevations on the south western side of Mt. Goningberri. The formation slate rocks, uncovered. The same in the now dry watercourses.

Decemb 31. **Mt Goningberri proper.** Slate to ⅓ of the height of the mountains, from there upwards sandstone rocks, much broken and confused.

- Nro 1. Shrub, branches radiating, spreading, not leafy, 4' h, ½" diam. bark brownish grey, rough, scales adherent, thin edges turned upwards, fissures smooth, light brown.
- Nro 2. [p.6.] Conifera on the top and the steep sides of the mountain, 8 - 12' h, 5" diam. bark grey, split vertically in ridge-shaped fissures with prominent laminated ridges between them.

- N. 3. Creek near mountain. Tree, 20 - 30' h, 12 - 14" diam, bark grey, greenish and white, smooth, bark shedding over the whole of the tree in longish, thin scales.
- N. 4. Shrub, procumbent, radiating, spreading much pine-like 8 - 10' h. 4 - 5" diam. bark grey, very rough, lower end of scales upturned, scales rough thin, equally broad, fissures superficial, foliage dense, with silver grey lustre.
- N. 5. Shrub 6' h. diam. 2'. tending upwards, branchy, not spreading. Bark blueish grey, smooth with many small horizontal marks, lower down narrowly fissured, scales gray, connected, adherent thin, fissures brown, narrow.
- Nro 6. Shrub, 6' h. thiny [thorny] , branchy, erect, bark light grey, fissures marked as if chafed, fissures red brown, quite superficial, narrow, scales lower down rough thin removable.

Jan 1. From Wonamente to Nandurungee.

1861.

- Nro 1. Shrub, erect, 4' h 1¼" diam, branchy, wiry, stiff bark blueish grey, fissures marked, lower down slight fissures, narrow, scales adherent, connected (epidermis).
- Nro 2. Tree, erect, 12-15' h, 2-4" diam, branchy, bark pine-like, rough, scales connected, twisted.
- Nro 3. Small shrub, 3-5' h, not branchy, thin, erect, blueish grey, with a whiteish, dust like [cover] and reddish spots looking like chafed.
- Note. Very characteristic sandhills, with deep red loose sand, a dense and luxurious vegetation, many grasses, acacia, cassia, [malvaceens]
[p7.] and solanaceens plants principally remarkably salsolaceous plants bearing a small proportion.

Jan 1. Nandurungee Sandhills.

- N. 4. Stunted tree, 8 - 10' h. 4 - 5" diam, spreading, leafy, branches drooping, light grey, rather smooth, scattered short fissures with dark edges. Trunk short, bark rough, but not hard, dark grey, scales prominent, often loose, laminated lamellae of paper thickness, grey, easily removable, fissures deep. (Quandong fruits around the base of the tree.

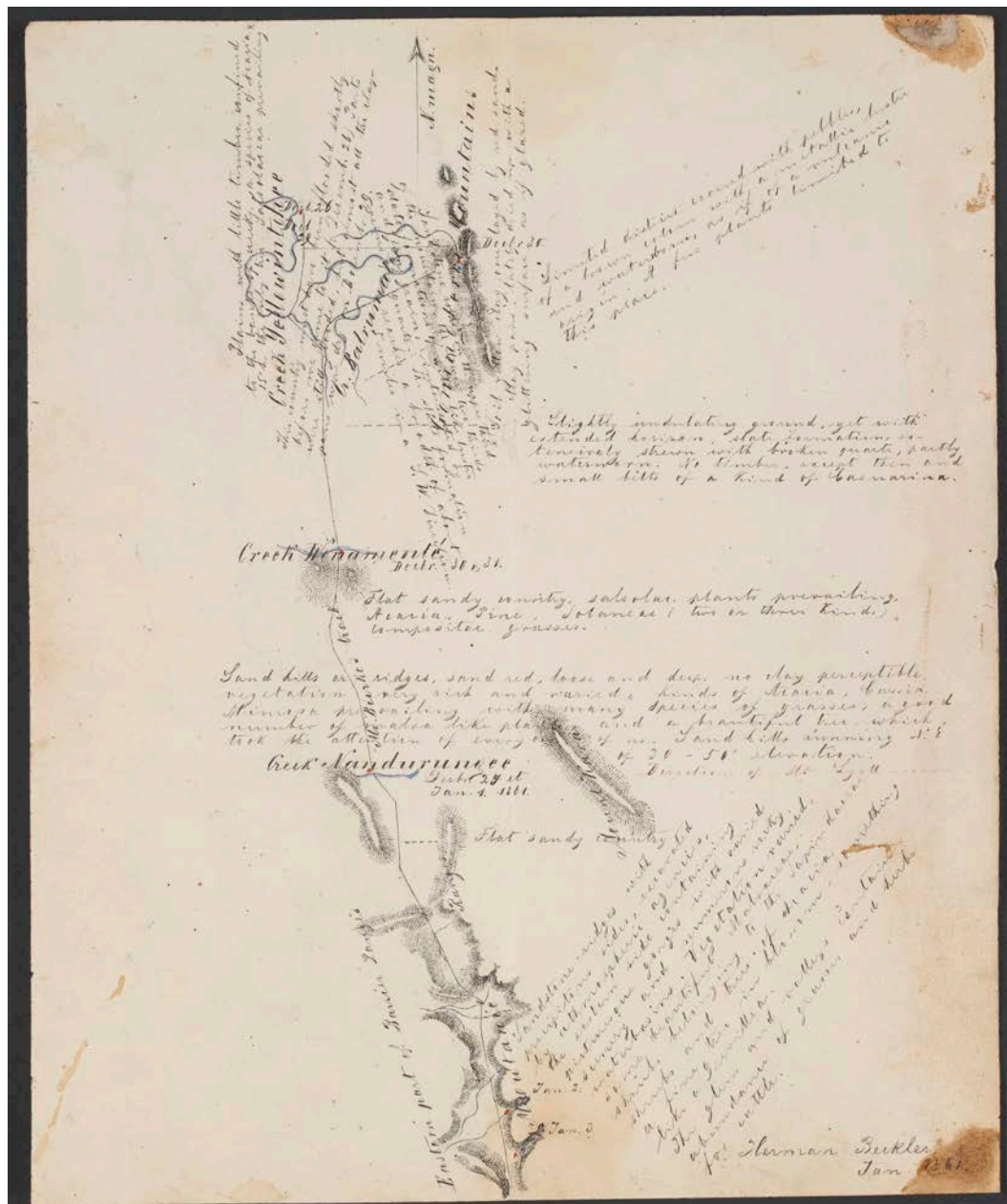


Figure 2. Beckler H. [Map showing the country north of the eastern part of the Barrier Ranges, including geographical descriptions and dates] [January 1861]. State Library of Victoria. SLV H16486

- Nro 5. Tree, 15 - 18' h, 3 - 4" diam. erect, branches and foliage drooping, bark grey, reticulately fissured, fissures regular, brownish, scales adherent and even, frequently split, horizontally, lower down rather rough. Very nice plant.
- Nro 6. Shrub, not quite erect, 3 - 4' h, diam ½" – branches dividing and tending upwards, broom-like, bark light grey, fissured light brown, pretty deep, lower down with rough edges, scales long, uneven, but not hard.

Jan. 2. From Nandurungee Cr [Creek] to Mutanie/ Ranges, soil sandy, salsolac plants prevailing, no timber, except a few groups of pine, and scattered small trees of acacia, mostly dead from old fires.

Nro 1. Tree, 20' h, 12" diam. not very branchy, foliage dense, bark almost black, very rough, scales small, twisted, upturned, cork like, hard, prominent ridges, fissures narrow light brown.

Jan 3. Mutanie/ Ranges.

Gully, formed by steep sandstone rocks with waterbasins in the rock.

N. 1. Shrub, 3 - 4' h, 1" diam, very dense, branchy, radiating, spreading, bark dark grey, rough

[p8.] even on the younger twigs, epidermis bursting in reticulately connected scales, leaving broad superficial fissures between them of a light brown, below scales stronger prominent, rough, but removable and not hard.

Nro 2. Shrub, very beautiful, 4 - 7' h, diam ¾", half spreading. Bark whitish grey, looking smooth, but slightly fissured, allover and covered with pimples. Epidermis connected, fissures insignificant.

Nro 3. Shrub 5' h. diam. 1". bark grey, rough, epidermis in epiphloia [epiphloeum] bursting in longish reticulate connected scales, leaving broad fissures between them fissures light brown below the same character but more prominent no flowers.

N. 4. Shrub. 5' h. 1" diam. spreading out radiating bark dark grey, smooth, partly fissured, or fissure-marked, small horizontal whitish marks, lower down slightly and narrowly fissured.

Nro 5. Shrub, 4 - 8' h, diam 1½," spreading, bark light gray, long fissures all over. Reticulate connected scales epiphloia [epiphloeum] fibrous removable lower down prominent ridges separated by narrow fissures.

N. 6.

N. 7. Shrub, 6' h. 1" - ½" diam, marked, dense, full of little twigs, spreading to one side, bark light ash grey, epidermis connected(above) in longish, soft, thin pieces, lower down fibrous looking frequently split, dark grey, fissures superficial, of a light brown.

N. 8. Tree, 10 - 16' h, diam 2 - 2½," spreading, branchy and leafy, pine-like. Bark brownish with a blueish tint. Epidermis bursting into a network of scales, leaving broad fissures, marked all over with white horizontal spots.

3.

[p9.] Lower down bark rough, scales connected, not [narrow], fissures not deep, light

brown.

- Nro. 9. Small shrub, procumbent, very branchy, dense and confused looking – bark blueish grey, fissured all over, scales adherent, connected in narrow strips, dark fissures, browner than scales, white superficial.

[sgnd.] Herman Beckler