NEW SOUTH WALES.

ELECTRIC TELEGRAPHS.

(REPORT FROM SUPERINTENDENT.)

Presented to both Houses of Parliament, by Command.

REPORT of the Superintendent of Electric Telegraphs, on the progress and general condition of Electric Telegraphs in New South Wales, for the years 1863 and 1864.

Department of Public Works.

Electric Telegraph Branch,

Office of Superintendent,

Sydney, 18 February. 1865.

SIR.

I have the honor to forward, for the information of the Honorable the Secretary for Public Works, a Report shewing the progress and financial condition of the Electric Telegraph Department to the end of the year 1894.

EXTENSIONS COMPLETED.

The extension of the Western line from Orange to Forbes, Young, and Wagga Wagga, was completed and handed over to the Government, May the 5th, 1803, and has since worked satisfactorily—having proved a valuable addition to the Southern inter-colonial lines—and has reduced the interruptions between Sydney and Victoria to a minimum, in all only amounting to six hours during the year 1804.

From Deniliquin to Hay, eighty-one and a half miles; contract price, £43 per mile, and £15 per mile for wire on existing posts from Deniliquin to Conago, a distance of twenty miles; total cost, £3,367 2s. 10d. The station at Hay was opened, 7th May, 1864.

From Braidwood to Queanbeyan, thirty-six and a half miles; contract price, £37 per mile; total cost, £1,991 6s. 10d. Queanbeyan station opened, 13th August, 1864.

From Wellington to Dubbo, thirty and a half miles; contract price, £41 10s. per mile; total cost, £1.471 10s. 9d. Dubbo station opened, 12th November, 1864.

The additional wire between Sydney and Newcastle was completed and opened 1st January, 1864; since which, the receipts at the principal stations on the Northern Line have considerably increased.

The extension from Braidwood to Araluen, fifteen and a half miles, contract price £34 per mile, is completed, and will be opened in a few days.

LINES IN PROGRESS.

The line from Murrurundi to Mudgen, 130 miles, the contract price for which was accepted at £37 per mile, is rapidly progressing, and will be completed about the end of Pebruary, 1865. This very necessary work will connect the northern with the western circuits, and insure more regular communication with the northern stations in this Colony and those in Queensland.

A contract has also been entered into for a line from Queanbevan to Cooma, a distance of seventy miles, at £37 15s. per mile, to be completed in four months.

The South Australian Government having, after considerable delay, at length agreed to the division of receipts originally proposed by me, viz., two-thirds to accrue to New South Wales, and one-third to South Australia, on telegrams between Sydney and Adelaide, a contract has been entered into for the construction of the direct line from Deniliquin to our western boundary, at £36 10s. per mile, to be completed in eight months, by which time the South Australian section will also be ready.

When in operation, this line will relieve the Victorian lines of the whole of the business between New South Wales and South Australia, and will greatly facilitate the transmission of messages between the two latter Colonies, as one repetition only will be necessary, instead of three as at present. I have every reason to believe that there will also be a tolerable and increasing business with the several stations on the Edward and Murray Rivers ; but in the mean time, the annual amount now paid to Victoria for business which this line will take, will almost cover the working expenses of the new stations, independent of their own receipts.

PROPOSED EXTENSIONS.

The Select Committee of the Legislative Council on Light-houses, in 1863, recommended that lines of Electric Telegraph should be extended to the several light-houses along the coast of the Colony. With a view to the accomplishment of so desirable an object, it will be necessary to carry the present lines to the nearest convenient townships. where permanent telegraph stations, worked on the Morse system, should be established, and from which points the light-house lines might branch; for which latter, alphabetical instruments, for the sake of economy and easy manipulation, should be used.

To connect the Gabo Island light, a line from Cooma to Eden, a distance of eighty miles, via Merrimbula and Panbula, would be required; the estimated cost of which would be £3,750, thence to Gabo Island, thirty-five miles, about £2,000.

The Jervis Bay light could be connected by extending the present line from Kiama to Shoalhaven, with an alphabetical line from Shoalhaven to the light; the distance would be about forty miles, and the cost about £2,000.

Port Stephens light could be reached from Newcastle, at a cost of about £1,500.

The above lines would prove of the utmost value in cases of shipwreck, or vessels in distress; also, for the purpose of transmitting warning signals during severe gales or storms, and more particularly in the event of war, when immediate information could be transmitted throughout the Colonies on the approach of an enemy's vessels.

A line from Bathurst or Orange to Carcoar and Cowra might be carried out, and prove a great boon to the inhabitants of that district. I also feel satisfied that, if the residents in the neighbourhoods interested would give the usual guarantee, the sum to be made up in order to indemnify the Government would be but trifling to commence with, and in a short time would cease altogether.

GUARANTEED LINES.

The lines guaranteed by individuals against loss to the Government have so far proved a success, and there is little doubt that, in a short time, they will cease in any degree to be a burthen on those whose public spirit induced them to become responsible. The following table will shew the amounts required to cover the loss in the case of each guaranteed line :-

			£42	6	9	
Braidwood to Queanbeyan	 	 	2	6	1	
Deniliquin to Hay line	 	 	20	4	2	
Wellington to Dubbo line	 ***	 ***	£19	16	6	

BRANCH LINES FOR PRIVATE FIRMS.

No additional lines have been erected for private firms or companies, to connect the nearest line stations with business establishments, since 1862, although several applications have been received; it having been considered necessary to amend the Tedegraph Act, in order to empower the Government to undertake such works—which smendment it is proposed to submit to Parliament during the present session—when there is every reason to believe the public will await themselves of the facilities for communicating between their several places of business and the nearest Government Tedegraph Office. The Coal Companies near Newcostel and in Illawarn will derive important advantages from the connection of their collieries with their principal offices, which will be effected on the texture of a small amana cental.

CONDITION OF THE LINES.

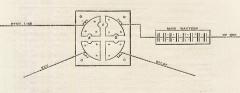
The Southern Lines have worked very satisfactorily since 1862. The Main Southern Lines have been put in thorough repair, a gang of men having travelled through from Sydney, and are now at work in the neighbourhood of Gundagai. Considering that these lines have been nearly seven years in operation, the repairs required have been trifling, beyond the clearing of overgrown serub.

On the Western Line, between Penrith and Hartley, considerable damage has been done by the railway works; with this exception, the Western Lines have required nothing beyond the ordinary repairs.

The Northern Line, since the alterations on the southern portion, has not been to troublesome, the interruptions between Sydney and Queenland having been less frequent. On the completion of the Junction Line between Midgee and Murrurundi, the public will seldom feel the inconvenience of delay, as there will not be more than 275 miles to the Queenland Boundary which will not be duplicated by a separate route.

The several branch lines are in good working order, and have seldom required
ment that the line-men have been able to manage in keeping them in repair, except the
Grafton Branch, which has been washed away by the Upper Clarence at Tabulam, necessitating the removal of the line to a less dangerous crossing-place.

The lines in this Colony during the summer months appear to be much more
affected by lightning than those in the neighbouring Colonies; and it requently occurs
that not only the lightning conductors, but the relay coils, are fixed by the intensity of
the stronopheric charges. To guard against this wholesale destruction. I have arranged
a simple cutting-out switch, which completely disconnects the conductors and instruments
from the line, leaving only the main battery in circuit. This plan has been found to
work very astisfactorily, and has saved the destruction of many instruments, and the
consequent delay of business at the several stations so visited. The following is a sketch
of the cutting-out switch:—



When the station is cut out and the line switched through, a plug is inserted at 1: when the instrument is in circuit, plug 1 is removed, and two plugs inserted at 2' 2'.

LENGTH OF LINES AT PRESENT IN WORK.

							Number of Miles of Line.	Number of Miles of Wire.
	Sor	THER	LINES					100
Sydney to Albury							365	730
Do. to Kiama							94	91
Do. to South Head							 7	7
Do. to Picton							 53	53
Goulburn to Braidwood			0.00				54	54
Gundagai to Kiandra							 99	99
Do. to Moama							 271	271
Braidwood to Queanbey			4				36	36
Do. to Araluen							16	16
Deniliquin to Hay			-	7			 81	81
	317	ESTERN	LINES.					
	W	ESTERN	LINES.				34	34
Sydney to Penrith			***					
Do. to Wagga Wag				***			 387	387
Bathurst to Wellington					***	***	 146	146
Wellington to Dubbo		***					 30	30
Mudgee to Murrurundi							130	130
	Non	HERN	LINES.					
Sydney to Queensland I	Bound	lary					517	679
Maitland to Newcastle							20	20
Do. to Morpeth							4	4
Newcastle to Singleton							 48	48
Muswellbrook to Scone							16	16
Tenterfield to Grafton							 112	112
							2,520	3.047

Making a total of 2,520 miles of line, and 3,047 miles of wire, which, on the completion of the lines in progress, will be increased to 2,990 miles of line, and 3,517 miles of wire.

RECEIPTS AND EXPENDITURE.

The receipts still shew a fair profit, although several branch lines have been constructed which, at present, do not return sufficient to cover their working expenses : but as the trade and importance of the districts which they connect with the main lines are undergoing a steady development, the lines in question are becoming remunerative.

The effects of the failure of crops, disastrous floods, and general depression of business during the last two years, are perceptible in this as well as in other branches of the public revenue.

		1863.		1864.
STATIONS.	No. of Messages.	Receipts.	No. of Messages.	Receipts.
si armitan m	1,000	£ s. d.		£ 8. d
Sydney	40,743	13,215 12 9	43,980	13,865 10 9
	1,345	179 19 11	1,065	150 15
	1,798	179 3 10	1,386	128 17
Liverpool	434	58 18 5	297	36 12
a 1.111	1.242	175 3 2	803	103 2
	1,289	206 7 3	1,230	187 10
	621	107 8 2	509	85 6
	627	88 2 8	747	89 6
Berrima	511	85 12 0	410	75 12
Foulburn	2,742	757 7 7	2,521	646 6 1
	1,209	380 2 7	1,487	445 5
Yass	1,901	474 6 9	1,690	448 5
Gundagai	1,032	234 11 10	1,266	343 11
	80	17 17 11	199	43 1

		1863.		1864.
STATIONS.	No. of Messages.	Receipts.	No. of Messages.	Receipts.
Albury	15,826	£ s. d. 540 17 8	18,030	£ s. 590 3 1
Tumut	900	274 11 9	874	234 12
Kiandra	266	88 9 2	305	105 7
Wagga Wagga	1,514	434 18 8	1.924	582 17
Urana	490	192 17 6	422	132 10 1
Deniliquin	1.923	755 13 11	2,346	860 19
South Head	237	14 7 0	180	8 19
Penrith	1,480	203 13 7	1,350	184 15
Hartley	509	88 12 1	425	79 0
Bathurst	5,461	1,537 11 8	4.162	949 11
Orange	1,610	353 18 8	1,619	376 14 1
Forbes	3,850	1.124 1 4	1.840	563 0
Young	2,077	846 0 11	1,665	570 7
Sofala	936	158 2 10	640	103 6
Fambaroora	1.087	207 17 6	939	193 7
Windever	409	96 0 8	298	65 5
Mudgee	2,770	771 0 0	2,261	552 18 1
Wellington	783	196 0 6	759	200 6 1
Windsor	1,107	202 19 4	976	137 17
Wollombi	115	23 2 1	117	20 14
Maitland	5.008	1,174 19 0	5,823	1.282 15
Morpeth	1,390	252 15 0	1,327	216 13
	4,600	1.084 4 7	6.685	1.657 1 1
Singleton	1,940	360 2 6	1,976	344 5
Muswellbrook	1,010	170 4 10	1.158	178 19
3	443	84 2 5	386	74 10
Murrurundi	875	261 16 11	695	173 0
Famworth	1,054	287 10 6	842	235 13 10
0 1	298	61 3 7	471	117 0
4	3,300	459 16 3	1,509	397 18 8
CII T	459	113 15 7	555	135 9 5
0	4,197	301 3 9	7,554	278 14 1
7 0	1,132	320 2 5	1,089	
2 . 35 22 3	58	12 9 4	431	292 10 8 93 7 1
T	90	12 9 4	669	
1			353	245 17 1 95 17 10
Moama			103	
Dubbo			103	
Rent of Bellambi Branch		10.10	122	27 14 (
Line Balances due from other		12 10 0		12 10 (
Colonies on business		370 11 8		593 10 9
Due on Guaranteed Lines				42 6 9
that one to make	124,638	29,599 0 0	130,500	29,678 8 4

£	8.	d.	3:	s.	d
			118,440	12	2
			500	0	C
			118,940	12	2
370	11	8			
		-			C
			20,449	3	1
	12	29,215 18 12 10 370 11		500 118,940 29,215 18 4 12 10 0 370 11 8 29,599	12 10 0 370 11 8 29,599 0

RESULT of Year ending 31st December, 1864.

Expenditure by Colonia	Archite	eet							132,025	18	
						£	8.	d.			
Revenue collected during 186 Contract for Bellambi Line Balances of 5 per cent. 6			con		nal	29,623 12	11 10				
Lines, viz. :— Dubbo Hay			19 20		6 2						
Queanbeyan			2	6	ĩ	42	6	9	00.070	8	
						000000000000000000000000000000000000000			29,678	3	

Being net profit on cost of construction of 6 per cent. per annum.

Note.—There was a considerable diminution in the number and value of Government messages transmitted, but an increase in private business, during the year.

It has been frequently asserted that the present rates of charge for telegrams are too high, and that a reduction would induce on increase of business and revenue. It is natural, of course, that those who are interested in obtaining a reduction should advocate a lower charge; but, as I have shewn in a previous Report, there is nothing to warrain the assumption that the result would justify the anticipation. In further support of my opinion, I may here quote the fact that, induced by the force of competition, the English Companies reduced their scale of charges to a minimum, in the belief that they would thereby increase their receipts; but although they have the advantage of a large population to operate upon, the dividends of the leading Companies have, in consequence, been reduced from 12½ to 7½ per cent., and some Companies now pay no dividend at all.

In proportion to the population, the lines in this Colony contrast well with those more pepulous countries; and it is a self-evident fleet, confirmed by experience, that it is impossible to force a telegraph business where the population is limited, and where their business transactions are not of an urgent nature. Reductions have been made in their tariff by a neighbouring Colony, which resulted in considerable loss of revenue; and I feel assured it would prove suicidal to the best interests of the department, if a similar step were at present adopted here.

COMPARATIVE Table, shewing the number of Telegrams transmitted by the following Countries, in proportion to their Population; also, the number of Stations, and average number of Messages from each.

Countries.	Population.	Telegrams per Annum.	Telegrams in proportion to Population,	Length of Wire.	Number of Stations.	Average Messages per Station.
United Kingdom	36,000,000	03,000,000	1 to every 12	53,000	1,375	2,182
France	38,000,000	+2,500,000	1 ,, 15	64,300	1,301	1,921
New South Wales	379,000	130,500	1 ,, 3	3,047	52	2,384

* Including foreign and continental messages.

It will be seen by the above table, that in New South Wales one message is sent by every three persons, whereas in England and France it is one to twelve, and one to fifteen, respectively. The average number of messages from each station in this Colony is also greater than in either of the kingdoms above mentioned.

It has been sometimes urged that the Telegraph Service should be more immediately connected with the Post Office. This I consider quite unnecessary, and has been tried in Europe and failed In France Russia Prussia Austria Spain Relgium and Switzerland, the Telegraph and Postal Services are under the respective Governments, but are in no way connected

In Spain and France the telegraphs are under the Minister for the Interior. In Russia Prussia Italy Belgium and Switzerland they are under the Minister for Public Works. In Austria the Administrations of the Telegraphs and Post Office were for a time united, but it was found expedient to separate them,

A great deal of jealousy has already shewn itself in this Colony, through the Country Post Offices forming portions of the telegraph buildings; and claims have actually been made by the Country Postmasters to an equal share of the stations, which, if complied with, would have been clearly unjust to the officers of this department, as not only is the major part of the cost of erection defrayed by the Telegraph Service, but the accommodation supplied (four rooms only) is calculated as part of the Station Master's salary.

I see no objection to the same number of rooms being provided for the Postmasters on the telegraph allotments, and would recommend that a sum he placed on the Estimates for that purpose, as I feel convinced that disagreements of a serious nature will occur as long as the same buildings are used by both departments

LINES IN OTHER COLONIES.

Through the courtesy of Mr. McGowan, the General Superintendent of Telegraphs in Victoria, who has kindly supplied me with the following information, I am able to shew the progress of the Telegraph Department in that Colony, to the end of 1864.

The following new Offices have been opened for business in Victoria:-

Swan Hill14 April, 1863.	Castlemaine Railway 23 July, 1863.
Smythesdale18 June, 1863.	Kerang 6 Aug., 1863.
Moonambal25 June, 1863.	Colae
Ballarat Railway 13 July, 1863.	Camperdown 6 Oct., 1863.
Sandhurst Railway 22 July, 1863.	Newstead
Red Bank	Mortlake
Sale	Port Albert
St. Arnand	21 Jan., 1865.

LINES IN PROGRESS.

A line is being carried from Hamilton to Casterton, from which place it is, I believe, intended to extend the line to the South Australian boundary, to join the lines in that Colony, which will form another loop-line which will be available in the event of interruptions.

Another line is in progress, from Benalla, on the North-eastern Line, to Wood's Point-a new gold field in the north of Gipps Land.

A Statement of Receipts, Expenditure, and number of Messages, for the years 1863 and 1864, is shewn, page 10.

IN SOUTH AUSTRALIA.

From Mr. Todd's voluminous and valuable Report for 1863, I find that the following Extensions were completed during the year:-From Kadina to Wallaroo, rather more than seven miles, opened, 23rd March,-total cost, £416 13s. 7d.; from

Penola to Kincraig, 31 miles,-costing £1,496 11s. 5d.; Kincraig was opened on the 20th July; a station was also opened at Wellington, on 17th March; Riverton was opened in March, and Halendorf in April, 1864. Mr. Todd appears to be unable to procure suitable timber in South Australia for

re-poled with Swan River mahogany, as the local timber will not last, on an average, more than six or seven years in the ground. Contracts, I have since been informed, have been accented for this purpose, at 17s. 104, per pole 23 feet long.

The long-talked-of direct line between South Australia and New South Wales is at last fairly started; and the first section, between Gavler Town and Blanch Yown, on the Murray, is under construction. From Blanch Town to the boundary it is intended to carry the line direct to Overland Corner, where it will cross the river; the high cliffs on one side being made available to give sufficient elevation to the wire, so as not to interfere with the traffic on the river during floods. The length of line from Gawler Town to the boundary near the Satt Creek, will be about 100 miles.

The receipts on the South Australian lines show a steady increase, which can be referred to at page 10.

IN QUEENSLAND.

The lines in operation previous to 1863 were from Brisbane to the New South Wales boundary at Maryland, a distance of 157 miles; also, a short line to Lytton, near the mouth of the Brisbane River; since which date, the following extensions have been added:—

Brisbane to Cape Moreton, 891 miles; opened, August 2nd, 1864.

Dalby to Rockhampton, 455½ miles; opened, January 5th, 1865. Rockhampton to Gladstone, 90 miles; opened, January 14th, 1865.

Total number of miles, 792.

Lines in Progress.

Broad Sound to Port Denison.—A branch line to Clermont, and a line from Hawkwood to Taroom.

I have not been favoured with any information respecting the receipts and expenditure of the lines in the above Colony, so am unable to give a detailed account, but I believe they about cover their working expenses.

IN NEW ZEALAND.

I have been favoured with a report from the Telegraph Engineer in this Colony, from which it appears that the Southland Provincial Government have creeted a line from the Bluff to Invercargill; which line, it is recommended, should be purchased by the General Government, to form a portion of their Main Trunk Line.

From Invercargill to the Mataura River, the whole of the posts have been erected.

From Mataura to Molyneaux the contractor is busily engaged erecting poles; and between the latter place and Dunedin, the posts have been erected under a contract entered into with Mr. James M'Kenzie, by the Otago Provincial Government, which is now to be transferred to the General Government.

From Dunedin to Waitaki the posts have been erected under contracts entered into with the Otago Provincial Government; but some difficulty appears to have arisen which necessitated the transfer of nearly the whole of the poles, which had been erected in the midst of bush, and so mixed up with the poles of the private line of Telegraphs to Port Chalmers, as to reader the working of either line a matter of impossibility.

Waitaki and Timaru. Posts have been deposited at points marked out by telegraph surveyor.

Timaru to Christchurch.—Most of the posts for this section have been laid along the line, and are ready for erection.

The section between Christchurch and Nelson does not appear at present to be in a very forward state, but the whole of the contracts have been let for the supply and delivery of the poles.

The distances are not enumerated in the report, and at present I am unable to state the total length of the lines in this island.

state the total length of the lines in this island.

From Auckland I have little or no information, beyond the fact that there exists a military telegraph from Auckland to Drury, a distance of about forty miles.

luen.

LIST OF STATIONS IN EACH COLONY.

NEW SOUTH WALES.

Sydney.	Tumut.	Wellington.	Araluen.
Redfern.	Kiandra.	Morpeth.	Moama.
Parramatta.	Wagga Wagga.	Newcastle.	Hay.
Liverpool.	Urana.	Singleton.	South Head.
Campbelltown.	Deniliquin.	Muswellbrook.	Penrith.
Wollongong.	Hartley.	Scone.	Dubbo.
Kiama.	Bathurst.	Murrurundi.	Windsor.
Picton.	Orange.	Tamworth.	Wollombi.
Berrima.	Forbes.	Bendemeer.	Maitland.
Yass.	Young.	Armidale.	Glen Innes.
Gundagai.	Sofala.	Goulburn.	Tenterfield.
Kyamba.	Tambaroora.	Braidwood.	Grafton.
Albury.	Mudgee.	Queanbeyan.	East Maitlan

Gundagai.	Sofala.	Gomourn.	Tenterneia.
Kyamba.	Tambaroora.	Braidwood.	Grafton.
Albury.	Mudgee.	Queanbeyan.	East Maitland.
	Length of	line-3,047 miles.	
	100		
	7	Tictoria.	
Melbourne.	Beaufort.	Inglewood.	Footscray.
Williamstown.	Streatham.	Kerang.	Mortlake.
Geelong.	Hexham.	Swan Hill.	Chiltern.
Queenscliff.	Otway.	Gisborne.	Woodend.
Point Londsdale.	Creswick.	Kyneton.	Taradale.
Sandridge.	Daylesford.	Castlemaine.	Werribee.
Schnapper Point.	Maldon.	Sandhurst.	Buninyong.
Cape Schanck.	Dunolly.	Echuca.	Hamilton.
Portland.	Carisbrook.	Kilmore.	Smythesdale.
Belfast.	Maryborough.	Longwood.	Ararat.
Warnambool.	Avoca.	Benalla.	Stawell.
Camperdown.	Moonambel.	Wangaratta.	Talbot.
Colac.	Red Bank.	Beechworth.	Heathcote.
Port Albert.	Clunes.	Yackandah.	Newstead.
Ballarat.	Wahgunyah.	Rutherglen.	Sale.
St. Arnand.	Tarangulla.	Belvoir.	

Length of line-2,826 | miles.

	South	Australia.	
Adelaide.	Gawlertown.	Mount Barker.	Guichen Bay.
Bowden.	Roseworthy.	Nairne.	Mount Gambier
Alberton.	Freeling.	Woodside.	Penola.
Port Adelaide.	Kapunda.	Strathalbyn.	M'Donnell Bay.
Peninsula.	Clare.	Willunga.	Kadina.
Dry Creek.	Burra.	Port Elliott.	Wallaroo.
Salisbury.	Gumaraeka.	Yankalilla.	Auburn.
Smithfield.	Glenelg.	Goolwa.	Wellington.
Hahndorf.	M'Grath's Flat.	Kineraigs.	Riverton.

Length of line-1,074 miles.

QUEENSLAND.

Brisbane.	Durah.	Rockhampton.	Moreton Island.
Lytton.	Maryborough.	Towoomba.	Banana.
Dunwick.	Hawkwood.	Warwick.	
Ipswich.	Dalby.	Gladstone.	

Length of line-792 miles.

COMPARATIVE STATEMENT of Receipts and Expenditure in New South Wales, Victoria, and South Australia. 1863

	NEW SOUTH WAI	ES.				VICTORIA.					SOUTH AUSTRAL	IA.		
С	APITAL—£118,040 15	s. rd.			C	APITAL—£222,846 5	s. 11d.							
		£	8.	d.			£	8,	d.			£	s.	d
Messages,	Cash receipts	29,509	0	0	Messages.	Cash receipts*	25,763	15	8	Messages,	Cash receipts	8,420	19	
124,638.	Working expenses	20,449	3	9	156,482.°	Working expenses	35,645	11	9	86,411.	Working expenses	9,105		1
	Net revenue	9,149	16	3		Net loss	9,876	16	1		Net loss	678	1	1

1864.

	NEW SOUTH WAL	LES.				VICTORIA.					SOUTH AUSTRAL	JA.		
c	apital—£132,025 1	8s. 3d.			Ca	PITAL-£238,616 5s.	11d.							
Messages, 139,560.	Cash receipts Working expenses Net revenue	22,058	8	4 7		Cash receipts* Working expenses Net loss	35,978	18	1 3	Messages, 106,874.	Cash rectipts Working expenses Net revenue	9,500	13	8

THE ANGLO-AUSTRALIAN TELEGRAPH.

Since my last report on the Anglo-Australian Telegraph, in March, 1863, nothing of a definite character has been done towards the realization of this important object. The lines are gradually stretching down from the northward towards India, and appearances warrant the assumption that, with so many Imperial interests urging on the undertaking, they will soon be extended to Singapore, on their way to China and these countries respectively. Arrangements made by the Dutch Government, leave no doubt that the continuation from Singapore to Batavia will be a matter of early accomplishment. From Java to this continent, the extension of the line may be said to be the special business of those Colonies which, by geographical position, are immediately interested in this great question.

With the view of connecting the Indo-Australian cable, the Queensland lines are now steadily extending northward; and that Government, I have no doubt, will at once complete their system to the Gulf of Carpentaria; more particularly, should the South Australian Government agree to carry on the work from thence to their northern settlement at Adams Bay, Adelaide River, which would be of the greatest importance to the latter Colony.

The Queensland lines are now open as far north as Rockhampton, and are in progress of construction from thence to Port Denison, so that considerably less than 700 miles of line would place the head of the Gulf of Carpentaria in communication with the rest of Australia, leaving about 800 miles, which would cost perhaps £50,000, to be provided for by the South Australian Government, in which line they would have a double interest. The question, therefore, becomes reduced to that of the sub-marine cable from Adams Bay to Java; and as this point is one which involves no risk, either as to the security of the cable or the remunerativeness of the outlay, I would strongly recommend that (even should the South Australian Government decline to form their land portion of the line to Adams Bay, and thus shut itself out from a participation in the extension) this Colony should join with Queensland in assuming the whole interest in the construction of the line from the Albert River to its connection with the Dutch

Even if formed by a Company, it will be recollected that a subsidy must be guaranteed, representing a certain return on the outlay for the line, while experience warrants the assertion that the undertaking would yield a magnificent return, which has hitherto been the case with all main trunk lines, so much so, that I have no doubt there would be little or no difficulty in obtaining contractors who would manufacture and lay the cable, and undertake the working, for a fixed annual subsidy, in the same manner as Messrs. Glass and Company are working and maintaining the Malta and Alexandria line. Should

Should the proposition be entertained, that the three Colonies most interested at once enter into preliminary arrangements for starting the project, it will be borne in mind that not only will a large profit accrue from the sub-marine portion, but that an increased business will also be necessarily thrown upon the existing lines, which business will prove an indirect source of revenue of no small magnitude, as the proposed line will form the sole telegraphic channel of communication between Australia and nearly the whole of the World.

The Persian Gulf cable has proved a success; and it is now time for active measures to be taken, to secure to these Colonies one of the greatest boons which mankind possess, which can be accomplished without serious risk or outlay; as I am satisfied that a subsidy, after the first year, would not be required, and that the entire scheme would be selfsupporting.

There is one other matter which should not be passed over, that is, the immense saying which would be effected in freights and insurance by manufacturing the cable in Australia. Instead of steam-vessels being required, provided with tanks and other expensive fittings, for the bringing out and protection of so delicate a freight, the whole of the material could be shipped in its unmanufactured state at ordinary rates in England. Of course, in such case, experienced engineers and artisans would be required, who could be sent from Europe with the material. The difference in the expense saved by these means would be at least 20 per cent, on the entire contract.

It may be urged that steam-vessels fitted up with water-tight tanks will be required, and must be brought out from England, to lay the cable: this is quite unnecessary, as there would not be the slightest difficulty in procuring suitable vessels for the purpose in this country, at a far less expense; the time occupied in coming out and returning home being saved. The tanks, paying-out machinery, and all the necessary fittings, could also be put on board in the Colony, at a very trifling additional cost.

I am still of opinion that the only satisfactory mode of initiating the preliminaries for carrying out this undertaking would, as previously recommended by me, be by a meeting of representatives from the several Colonies interested, to take place in Sydney or some other convenient place, to fully discuss the subject and bring up a joint report. recommending the best route, and the most economical plan, for the accomplishment of so desirable an object as the completion of an unbroken line of Telegraph between England and Australia

E. C. CRACKNELL

Superintendent of Telegraphs.

rst lines

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	APPENDIX						
owing the capital invested, nu in New So	mber of messages and r ath Wales, in 1858, to the	eccipt end o	the y	n the rear 18	opening 64.	of	the
	1858.				3.	5.	d.
	Capital invested-£17,253	3 12s.	11d.				
No. of messages—9,141.	Cash receipts Working expenses	::	::	::	1,932 2,087		
	Net loss Number of stations	 —11.			154	18	9
	1859.						
	Capital—£23,816 19	s. 9d.					
No. of messages—36,867.	Cash receipts Working expenses	::	::	::	7,826 4,646	9	10 9
	Net profit				3,179	10	1
	Number of stations						
	1860.						
	Capital-£48,454 2:	. 2d.					
No. of messages-53,951.	Cash receipts Working expenses	::	::	::	12,136 9,408		
	Net profit Number of stations	 -23.			2,728	0	10

	1861.			
	Capital-£60,615 13s. 3d.		£ s	. d.
No. of messages-74,224.	Cash receipts		16,542	
	Working expenses	•••	12,915 1	, +
	Net profit		3,626 1	3 5
	Number of stations-36.			
	1862.			
	Capital invested-£116,234 11s. 7d.			
No. of messages-104,660.	Cash receipts			8 7 5
	Working expenses		16,780	7 5
	Net profit		8,733	2 3
	Number of stations-47.			
	1863.			
	Capital invested-£118,940 12s. 2d.			
No. of messages-124,638.	Cash receipts			0 0
	Working expenses	*	20,449	3 3
	Net profit		9,149 1	6 3
	Number of stations-48.			
	1864.			
	Capital invested-£132,025 18s. 3d.			
No. of messages-120,500.	Cash receipts			8 4
	Working expenses		22,085	1 7

Net profit

Number of stations-51.

7,593 6 9

Cutting out Switch Doun line Key

Litergraphed at the Surveyor Generale Office Sydney 0x1865

