

EXHIBIT D—continued.
MEMO. RE COST OF WORKS.

	Two Weeks ending 17th July.		Two weeks ending 31st July.		Contract Price per Cub. yd. plus 6 per Cent.
	Cub. yd.	Shillings per Cub. yd.	Cub. yd.	Shillings per Cub. yd.	
Otira—					
Excavation ...	910	29·56	796	32·23	22·26
Lining concrete ...	171	47·35	159	50·63	60·42
" blocks ...	38	78·94	18	89·84	65·72
Bealey—					
Excavation ...	340	24·11	242	30·58	22·26
Lining-concrete ...	35	44·88	36	52·77	72·08
" blocks ...	24	62·88	38	65·36	78·44
Steam shovel for four weeks	...	...	1,347	2·87	4·24

PROGRESS OF WORKS, 31ST JULY.

	Distance from Portal to Face.		Equivalent Total Length of Tunnel excavated.		Equivalent Total Length of Tunnel lined.	
	M.	ch.	M.	ch.	M.	ch.
Otira end ...	1	71·17	1	52·88	1	35·15
Bealey end ...	0	27·91	0	25·73	0	24·66
Total ...	2	19·08	1	78·61	1	59·81

EXHIBIT E.

My estimate of £100,000 to complete tunnel was based on bare figures at our disposal, providing for no special contingencies. On more careful consideration another £30,000 or £40,000 to provide for all possible contingencies should be added.

RATES OF WAGES PAID, OTIRA TUNNEL.

	Commencement of Contract.		From April, 1912.		
	s.	d.	s.	d.	
Shift bosses, per day of eight hours	12	0	13	6	
Machinemen, top and bottom headings	11	0	12	6	
" all others	11	0	12	0	
Chuckmen	10	6	11	0	
Shovellers in bottom headings	10	6	11	0	
" all others	10	6	10	6	
Truckers	10	0	11	0	
Motormen	11	0	12	0	
Concretemen	10	0	11	0	
Block-lifters	10	0	11	0	
Block-layers	10	6	12	6	
Power-house and compressor-shed	11	0	12	0	
Steel-sharpeners and smiths	11	0	12	0	s. d.
Strikers	10	0	10	0	and 13 0
Fitters	11	0	11	0	and 10 6
Carpenters	11	0	12	0	to 13 0
Wagon-drivers (five-horse teams)	11	8	12	6	
Horse-drivers (one-horse)	10	0	10	0	
All other outside labourers	10	0	10	0	
Tunnel foremen, per week	£4	0 0	£4	10 0	and £5 0 0
Foreman carpenter	£4	10 0	£4	10 0	

ARTHUR'S PASS TUNNEL CONTRACT.

	Wages.	Engineering and Salaries.	All other Charges.	Total.
	£	£	£ s. d.	£ s. d.
1909—30th September ...	18,471	4,998	17,798 0 9	41,267 0 9
1910 " ...	43,459	3,341	17,329 18 5	64,129 18 5
1911 " ...	44,875	4,778	16,980 16 5	66,633 16 5
1912—31st July ...	31,650	3,642	6,040 2 2	41,332 2 2
	138,455	£16,759	£58,148 17 9	£213,362 17 9