INDEX

ABERDARE Co.:

See Contract No. 8.

 ${f A}$ ccounts:

Moberly, 425. Wilson, 526. See Book-keeping and Banking; Nizon's Purveyorship.

ALLEGED IMPROPER CONDUCT:

Sutherland, 342.

Wilson, 534. Murdoch, 800.

ALLOWAY, W. F.:

Nixon's purveyorship, 382, 432.

Anderson & Co.:

See Contracts Nos. 17, 39.

Andrews, Jones & Co.:

See Contract No. 42.

APPOINTMENTS:

FLEMING, S.

manner of appointing officers, 1314. sectional, political and religious considerations consulted under all

Administrations, 1314.

insufficiency of skilled men at inception, 1314.
difficulty of getting rid of inefficient political nominees, 1315.
cannot recollect having remonstrated, 1315.

officers appointed in defiance of witness's recommendations to the

contrary, 1316. public interest has suffered through political patronage, 1317.

power of dismissal sparingly used, 1319.

on political grounds, 1666.

Assisting Newspapers:

WHITEHEAD, J.

especting assistance given to Mackintosh, 242, also a newspaper in Winnipeg, 243. witness persuaded by Mackintosh that Parliamentary Committee required looking after, gave Mackintosh acceptances to arrrange

matters, 606.

amount about \$11,000 or \$12,600; had given him some before; in all, perhaps, \$25,000, 607.

Bain recovered \$11,200, 607.

Mackintosh to look after witness's business in Ottawa, 608.

found him sureties on several different occasions, 609. departmental intimation to witness that he had better communicate direct to the Department, 609.

kind of service rendered by Mackintosh, 610. assistance to Winnipeg Times, 611. reasons why given, 611. further as to transactions with Mackintosh, 628.

WHITEBEAD, C. sent his father's attorney to recover acceptances from Mackintosh,

acceptances to amount of \$11,000 given up, 329. believes Mackintosh must have received acceptances for \$30,000, 329

of which about \$20,000 was paid, 330.

BAIN, J. F. undertook to arrange with Whitehead's creditors, became for a time trustee, 614. communicated with Mackintosh as to notes, 614.

which were given back, 614.

Assisting Newspapers—continued.

BAIN, J. F .- continued.

Mackintosh's book-keeper had probably notified him of witness's intended visit; he had recently visited Winnipeg for purpose of collecting acceptances, 615.

Mackintosh made condition as to exonerating letter, 617.

LUXTON, W. F.

complains of Whitehead's strictures regarding Winnipeg Free Press, 681.

offers evidence in contradiction, 686.

SCHULTZ, J., M.P.

Whitehead stated to witness his reasons for assisting Tuttle, 717.

Tuttle without political influence. 718.

TUTTLE, C. R.

Whitehead advanced moneys taking lien on plant, 723.

never pretended to Whitehead to have influence with Ministers, 723.

LITLE, W. B.
labourer on Fort Frances Lock, 825.
paid for working in the cut and for publishing newspaper besides, 826.

paid for working in the cut and for publishing newspaper besides, 826. arrangement that he should publish paper, and Government should pay for his labour, 826.

arrangement made with Hugh Sutherland, 826.

paid for full time by Government, but gave most of his time to newspaper, 827.

so paid for a year, 827. gave value by trying through newspaper to open up country, 827.

SUTHERLAND, HUGH.

knows nothing of arrangement by which Litle was paid for publishing a paper, 829.

how newspaper came to be started, 830.

understood that Litle worked at his newspaper at night, 830.

MACKINTOSH, C. H.

witness reads a statement as to his transactions with Whitehead, and is cross-examined thereon; receipt of money from Whitehead; service was rendered therefor of a commercial not political character, 869-915.

Bain, John F.:

contract No. 15, 613. assisting newspapers, 614.

BANNATYNE, ANDREW G. B.:

Red River Crossing, alleged improper influence, 724.

BARNARD, F. J.:

See Contract No. 3.

BARROW HÆMATITE STEEL Co.:

See Contracts Nos. 44-47, 53-55.

BEATTY, HENRY:

See Contracts Nos. 34, 69, 70.

BIRRELL, JAMES:

Fraser & Grant-Whitehead partnership. 264.

BOLT AND NUT Co. :

See Contract No. 31.

BOLTS AND NUTS:

See Contracts Nos. 30, 31, 51.

BOOK-KEEPING AND BANKING:

Sutherland, H., 337. Sutherland, J., 452, 807. Brown, 508 Conklin, 556, 628. Ourrie, 577. Thompson, 625.

See Nixon's purveyorship; Fort Frances Locks

BOULTBEE, ALFRED, M.P. :

contracts Nos. 41 and 42, 1109. alleged improper influence, 1111. Bowie, Alexander:

contract No. 15, 1150. No. 66, 1144, 1151. No. 41, 1142.

alleged improper influence, 1152.

BOWIE & McNaughton:

See Contract No. 66.

BOWN, WALTER R.:

Nixon's paymaster-and-purveyorship, 721.

BRAUN, FREDERICK:

practice of Department, 1753, 1756, 1763. contract No. 5A, 1754, 1761, 1765. steel rails, 1763

Horetzky's claim, 1766.

BRIDGES:

See Contracts Nos. 56, 64, 71.

British Columbia:

transportation of rails. See Contracts Nos. 17, 39. bolts and nuts. See Contract No. 31. construction. See Contracts Nos. 60, 61, 62, 63.

Brown, Grorge:

Fort Frances Lock, 508.

Nixon's paymaster-and-purveyorship, 509, 737, 763. assisting newspapers, 727, 764.

Brown, P. J.:

contract No. 4, 773.

BURPE, T. R.:

section 5, telegraph, 1344-contracts Nos. 6—11, 1664.

BUTE INLET:

Fleming, 1339, 1384.

CADDY, JOHN S.:

contract No. 4, 657. Nos. 13, 25, 649. Nos. 25, 41, 642, 650.

CAMPBELL, GEORGE:

transportation of rails, 1119.

CAMPBELL, H. M.:

contract No. 48, 144.

CANADA CENTRAL RAILWAY SUBSIDY:

See Contract No. 16.

CARRE, HENRY:

exploratory survey, party K, 122.
North-east Bay to Sturgeon Falls, 131.
contract No. 14, 176, 1446, 1457, 1462.
Nos. 14 and 15, 129, 149, 1447, 1455, 1469, 1471.
No. 15, 130, 153, 178, 1452, 1458, 1466, 1474, 1489, 1499.
Red River Crossing, 177.

CARRE'S ALTERNATIVE SOUTHERN LINE:

See Contract No. 15.

Chapleau, Samuel E. St. Onge:

contract No. 42, 850. No. 66, 860.

influencing clerks, 850 See Influencing Clerks; Contracts Nos. 42, 66.

563*

CHARLEBOIS & Co.:

See Contract No. 41.

CHARTERS & Co.:

See Contract No. 13.

CHEVRETTE, Moses:

See Contract No. 19.

CLAIM BY ENGINEER:

See Engineer's Claim.

CLAIMS BY CONTRACTORS:

See Contractors' Claims.

CLARK, ALBERT H.:

contract No. 14, 259.

CLOSE, P. G.:

contracts Nos. 41 and 42, 1160. alleged improper influence, 1170.

CONKLIN, ELIAS G.:

Nixon's paymaster-and-purveyorship, 556, 628.

CONNERS, JOHN L.:

contract No. 1, 595. No. 4, 601. Nos. 14 and 15, 603. location, north of Lake Manitoba, 599, 604.

CONSTRUCTION:

See Engineering; Contracts.

CONTRACTORS' CLAIMS:

CONTRACT No. 1: Sifton, 326. CONTRACT No. 2: Fuller, 464. CONTRACT No. 3: Trudeau, 45. CONTRACT No. 12: Fleming, 1364. Trudeau, 64. Sifton, 102. Fleming, 1319. CONTRACT No. 14: Sifton, 104, 112, 264. Clark, 260. Molloy, 315. Forrest, 358. Molesworth, 593. Rowan, 704. Fleming, 1319. Smith, M., 1610. CONTRACT No. 37: Smith, M., 951. Trudeau, 995. CONTRACT No. 43; Trudeau, 1047. CONTRACT No. 48:

Rowan, 750.

CONTRACT No. 1 .- Telegraph:

TENDERING-

TRUDEAU, T.
tenders advertised for, schedule of tenders produced, 5.
lowest: R. Fuller, including maintenance, \$68,750, 5.
second, H. P. Dwight, \$93,750, 6.
third, Waddle & Smith, \$121,250, 6.

CONTRACT No. 1.—Telegraph—continued.

TENDERING-continued.

```
TRUDBAU, T .- continued.
           fourth, Sifton, Glass & Co., excluding maintenance, $107,850, 6.
            maintenance a subject of subsequent correspondence, 6.
            no doubts as to Fuller's standing, 6
            Fuller's additional demand for clearing, 7.
                 making his tender, say $128,750, 7.
            contract offered to Dwight, 7.
            dates at which tenderers offered to complete, 7.
            Dwight requires modifications; declined, 8.
            tenders received up to 22nd July, 1874, 8.
            envelope attached only to Sitton, Glass & Co.'s tender, 8.
            alterations in tender, 8.
            Sifton, Glass & Co's tender for whole line, not for section 1, 9.
            Waddle & Smith offered section 5, 9.
           failed to put up security, 9.

Fleming reports on Fuller's amended offer, 10.
            Sifton & Glass get $20,000 maintenance plus profits of operating, 11.
            Waddle & Smith estimate profits at half cost of maintenance, 11.
            Law Clerk requires an Order-in-Council, 13.
                 usual in such cases, 13.
                 not procured in this case, 13.
           twelve days between receiving and opening tenders, 13.
Sifton, Glass & Co.'s tender comparable only as to construction, 15.
Fuller's figures for construction better by $9,100, 16.
            negotiations, Sifton, Glass & Co. and Fleming, 16.
Sifton, Glass & Co.'s letter of 30th October, 1874, interpolation, 17.
            Fleming's report no recommendation, 38.
            witness's view of Sitton, Glass & Co.'s tender as modified, 40.
            profits not referred to in tender, 41.
            first mention of receiving profits in letter of Sifton, Glass & Co., 41. return of 11th March, 1878, asked for by House of Commons, not
                 laid before the House, 42
            Sifton, Glass & Co.'s letter, 30th October, and Chief Engineer's reply
                 not included in return, 42.
            no Order-in-Council passed, 43. correspondence with Dwight, 44.
            statement of expenditure, 60.
    SIFTON, J
           M. Fleming, Glass and himself in Ottawa when tenders received, 90. saw Chief Engineer before filling in amounts, 98.
            presumes clause 13 to be offer for section 1, 91. knew nothing of lower tenders for some days, 92. information from Chief Engineer, 93.
           tender completed day it was put in, 94. no information from Department of moment, 94.
            ceased to expect contract, 95.
            letter of 14th October, in Glass's handwriting, 95.
            no consultations as to maintenance, 95.
            maintenance of section 1 less costly than section 2 by 15 to 25 per cent.
            final arrangements in Glass's hands, 97.
            operating not an element in tender, 97.
telegraphic correspondence with Department, 98.
            thinks Glass made first overtures of partnership, 105.
                 he had no practical experience, 105.
            tariff for messages, 105.
    Fleming, S.
           latitude as to form of tender, 1323. -
            a pioneer line, 1323.
            maintenance clause a guarantee, 1324.
            disappointed at result, 1324.
            Sifton, Glass & Co's tender no offer for section 1, 1326.
            profits a further advantage, 1329. profits a new proposition, 1329.
            cannot explain how Sifton, Glass & Co. were considered tenderers
                 on section 1, nor why profits were added, 1330.
            took no part in negotiations, 1330.
            remembers Glass's visit, 1330.
    MACKENZIE, HON. A.
```

contracts were awarded upon the calculations of the Engineer, 1787.

assumed to be lowest available, 1788.

1838

CONTRACT No. 1.—Telegraph—continued.

TENDERING-continued.

MACKENZIE, How. A.—continued.

decision invariably in acquiesence with the views of the officers of
the Department, 1788.
thought there was a distinct tender for this section, 1788.

CONSTRUCTION AND MAINTENANCE-

TRUDBAU, T.
inefficiency of section 1 the subject of report to House, 18.
report not printed, 18.
RUTTAN, H. N.
difficulty of telegraphic communication in 1876, 34.
lines down weeks at a time, 34.
owing chiefly to construction through muskegs, 35.
SIFTON, J.
telegraph poles mainly poplar, life three years, 93.
purchased wire from Government, 99.
character of country, 100.

purchased wire from Government, 99.
character of country, 100.
piles and poles carried away by ice, 326.
claim on Government for piers, 326.
CONNERS, J. L.

operator and repairer, 595.
as to poles put in ice, &c., 595.
witness sole repairer over 165 miles, 595.
line not properly maintained, 596.
destruction by falling trees, 597.
poles nearly all poplar, 598.
mode of repair described, 598.
STRONACH, J.

operator and book-keeper, 639.
statistics as to efficiency of line, &c., 640.
lowan, J. H.
line down a month at a time, 691.
maintenance clause too much relied on, 691.
recommended inspector over construction, 692. 730.

maintenance clause too much relied on, 691.
recommended inspector over construction, 692, 730.
thought unnecessary by Chief Engineer, 730.
MULHOLLAND, J. H.

foreman, 1021.
describes method of construction, not considered permanent, 1022-1031
FLEMING, S.
maintenance unsatisfactory, 1335.

OPERATING-

Fron, J.
operating not an element in tender, 97.
no arrangement with Government as to rates, 99.
tariff of messages, 105.
as to operating receipts and expenditure, 324.

CONTRACT No. 2.—Telegraph:

TENDERING-

TRUDBAU, T.

part of section No. 3, Fort Garry to Edmonton, 18.

Fuller's tender the lowest for No. 3, 18.

amount of contract, \$180,250, 19.

section 3 embraced also section 1, 19.

as finally let No. 3 costs \$310,100, 19.

statement of expenditure under contract, 60.

FULLER, R.

did not tender separately for this section, 462.

arranged by subsequent negotiation, 462.

FLEMING, S.

section not tendered for separately, 1331.

how arrived at, 1331.

alterations in tenders not usually allowed, 1332.

alterations in tenders not usually allowed, 1332.
exception herein on pecuniary grounds, 1332.
McKenzie, Grier & Oo.'s tender for No. 3, \$202,900, 1332.
Fifton & Oo. and Fuller's price as contracted, \$225,100, 1333.
Fuller's tender for section 3, \$216,000, 1333.

CONTRACT No. 2.—Telegraph—continued.

TENDERING-continued.

FLEMING, S .- continued. most favourable tender not adopted, 1334. maintenance unsatisfactory, 1335.

MACKENZIE, HON. A. never dealt with any contractors except through officers of the Department, 1789. cannot recollect details, 1790.

guided solely by Engineer's opinion, 1790. comparative merits of tenders dealt with solely in the interests of economy, 1792.

CONSTRUCTION AND MAINTENANCE-

FULLER, R. a lump sum per annum for maintenance, 463. respecting extra claims, 464. cutting through a wood, 464. stoppage by Indians, 464. movement of material, 465. line not fully located, 467. cutting trees, 468. operator to Edmonton, 469. difficulties from fires, 471. tariff, particulars of, 472. deduction made by Government for deviations on account of lakes

Lucas's view sustained by Fleming, 475.

character of country traversed, 475.

FLEMING, S. maintenance of Sifton, Glass & Co. and Fuller unsatisfactory. 1335.

CONTRACT No. 3.—Telegraph:

TENDERING-

TRUDEAU, T. equivalent to section 4, as advertised, 45. matter now before Department of Justice, 45. statement of expenditure, 60. documents in hands of Department of Justice, 833. WADDLE, J. understood his tender to be lower than Barnard's, 1118. contract was not offered to him, 1118. Fluming, 8.

witness recommended Barnard, 1336. report of 12th August produced, 1336.

CONSTRUCTION AND MAINTENANCE-

Fleming, S. line from Edmonton to Tête Jaune Cache not proceeded with, 1337. various instructions to contractor, 1338. reasons for diverting line via Fort George, 1339. Bute Inlet then the probable terminus, 1339. losses, consequent on changes, not the contractor's, 1339. modifies previous statement as to Bute Inlet, 1384.

CONTRACT No. 4.—Telegraph:

TENDERING-

TRUDBAU, T. lowest tenderer, Waddle & Smith, failed as to security, 45.
second lowest, Sutton & Thirtkell, \$214,450, also failed, 45.
third lowest, Sutton & Thompson, did not get contract, 48.
contract given to Oliver, Davidson & Co. at Sutton & Thompson 3 figures, 46. correspondence with Oliver, Davidson & Co., 46. transaction contrary to usual practice, 47. witness cannot explain why it was done, 47. no correspondence with Sutton & Thompson, 47.

CONTRACT No. 4.—Telegraph—continued. TENDERING-continued. TRUDEAU, T .- continued. Sutton & Thompson's tender \$28,200 higher than that of Sutton & Thirtkell, 48. managed by the Minister, 47. no report of engineer as to this award, 48. no Order-in Council authorizing contract, 48. statement of expenditure put in, 60. took no part in arrangement of this contract, 1817. can find no formal notice (nor recollect) given to Waddle & Smith. of Oliver, Davidson & Co., 773. did not tender; took Sutton & Thompson's tender, 773. negotiations: Oliver at Ottawa with departmental telegram to Sutton, 773. Thompson & Thirtkell ignored by Sutton, 775. witness subsequently purchased Davidson's interest, 775. SUTTON, R. T. Thirtkell's tender awarded, but passed over in favour of Thompson's, through influence of Oliver, Davidson & Co., 1033. negotiations; higher price paid, 1034-1040. Oliver, Davidson, and witness in Ottawa, 17th or 18th December (1874), 1069. telegram from Judge McMahon, 1070. Braun to Sutton & Thirtkell, 12th December, and reply 16th December (1874), 1070. Oliver, Davidson & Co. arranged with Department, 1070. WADDLE, J. tendered for all sections and whole line, 1103. interview with R.W. Scott, 1103. correspondence with Mackenzie as to security, 1104. agreement with A. M. Smith's nephew, 1104. never knew why contract not awarded to him, 1105. Minister attributed it to delay as to security, 1105. promised further chance if Thirtkell failed, 1106. interview with Minister, 6th or 7th December, 1106. further interview, 1107. Glass offered \$10,000 for contract; refused by witness, 1108. further as to security; interview with Minister, 1113. Sutton in Ottawa while these negotiations with Minister going on, interview with Cartwright; promised chance never afforded; witness had ample means, 1117. Davidson, J. of Oliver, Davidson & Co., 1126. negotiations with Sutton, 1126. subsequent visit (19th December, 1874) to Ottawa, 1127. interview with Chief Engineer, 1129. thinks Oliver had communication with Fleming after leaving capital, 1131. Oliver's interview with Mackenzie, 1134. remembers nothing about Sutton & Thirtkell's tender, 1139. cannot explain how he knew Sutton & Thompson's tender was next lowest, 1139. or how latter was substituted for former, 1140. thinks they got higher price than first talked of by Sutton, 1141. accompanied Waddle to Department; recollections vague, 1246.

FLEMMEG, S.

Waddle's tender without profits, \$239,520, 1340.

Sutton & Thirtkell's offer, \$214,950, 1340.

Sutton & Thompson's offer, \$243,150, 1340.

Braun the official mouthpiece of Department, 1341.

in this case witness acted as such on Minister's instructions, 1341.

no reason assigned for passing Sutton & Thirtkell's tender for one \$28,200 higher, 1342.

no explanation as to how negotiations came to be opened by letter from Oliver, Davidson & Co., 1342.

up to 19th December Oliver, Davidson & Co. prepared to assume tender of Sutton & Thirtkell, 1343.

CONTRACT No. 4.—Telegraph—continued.

TENDERING-continued.

FLEMING, S .- continued. on leaving Ottawa decided to take higher tender, 1343. witness remembers their visit, 1344. cannot explain above-mentioned circumstances, 1344.

MACKENZIE, HON. A. does not believe Waddle was passed over without notification of a

fixed day to bring up security, 1792. denies Waddle's statement as to giving him a further chance, 1793. denies managing this transaction, 1794. no recollection of conversation with Oliver or Davidson, 1794.

CONSTRUCTION AND MAINTENANCE-

CONNERS, J. L. Winnipeg to Whitemouth in fair condition, 601. Whitemouth to Cross Lake carelessly erected, 601. Cross Lake to Rat Portage too cheaply put up, 601.

defects as to working due to improper men on repairing staff, 602. STRONACH, J.

frequent interruptions during construction of section 15, 641. since blasting completed line works well, 641.

describes state of line, faults of maintenance, delays therefrom, 657--659.

Rowan, J. H. defective; line down one-sixth of time, 692.
JENNINGS, W. F.

as to general insufficiency of maintenance, 768.
Brown, P. J.

defective maintenance chargeable to contractors and engineer, 776. poles on section 42 all tamarack, 777.

OPERATING-

TRUDEAU, T. Order-in-Council produced as to operating line, 75.

CONTRACT No. 5.—Railway construction:

TRUDEAU, T. invited by advertisement: lowest: C. Peach, 48. wanted time; refused, 49. Whitehead and A. H. Clark, same amount, 22 cts., 49.

Order-in-Council awarding contract, 7th September (1874), 49. description and specification produced, 50,

WHITEHEAD, J.

one of three lowest tenderers, 212.
lowest tenderer became witness's foreman, 212. explanations as to changing tender from 28 cts. to 22 cts., 214. financially assisted by Senator McDonald, 214. reasons for building Pembina Branch then, 215. extent of contract, 215. work remeasured, 215.

subsequently allowed 65,000 yards more than certified, 215.

Roway, J. H. construction begun before surveys complete; no estimate of quantities, 687.

line not located when tenders invited, 1344.

CONTRACT No. 5 A.—Railway construction:

TENDERING-

Whitehead's offer reported on by Fleming, 51.
Order-in-Council specifying conditions and limiting cost to \$60,000, actual cost to 31st December, 1879, \$141,800, 52. no contract made; treated as extension of contract No. 5, 52. \$87,589 for work not mentioned in contract No. 5, 53.

1842

CONTRACT No. 5 A.—Railway construction—continued.

TENDERING-continued.

TRUDBAU, T .- continued.

this portion never submitted to competition, 53.

Braun telegraphs instructions: 22 cts. earth, and other work at prices in contract No. 15, 53.

off-take ditches paid for at 45 cts. as against 23 cts. in contract No. 14. 53.

no advertisement for tenders, 54.

Order-in-Council defines specific items as to which prices of contract

No. 15 shall apply, 54. witness cannot say why other prices of No. 15 were made to apply, 54. does not know Braun's authority for telegram, 55.

WHITEHEAD, J.

did not tender, 243.

reasons for award of contract; made an offer, 244.

off-take ditches paid for at 45 cts.; could have been done for 20 cts.

or 25 cts.; this item \$25,000, 245.

ROWAY, J. H.

reported probable cost 16th July, 1877, 731. this work facilitated carrying rails to contract No. 14, 748.

FLEMING, S.

not offered to public competition, 1345. Whitehead's offer; reasons for acceptance, 1345.

cost limited by Order-in-Council to \$60,000, exceeded very largely, 1345

Braun telegraphed authority, 1347.

the whole thing a mistake, 1346.

SMELLIE, W. B.

prices for off-take ditches reduced by witness, restored by M. Smith, 1349.

every item beyond the four mentioned in Fleming's letter paid without authority, 1349. no investigation made, 1349.

Braun, F.
thinks instructions to telegraph received from Minister, 1754.

remembers the circumstance, 1755. cannot state positively his authority to telegraph, 1756. can find no authority, but message could not have been sent without authority, 1761.
telegram sent four days before receiving Order-in-Council, 1762.

no instructions as to details from Engineer's Department, 1765.

CONSTRUCTION-

FLIMING, S.

Smellie notified Department as to high prices, 1348. received no reply, 1348.

MACKENZIE, Hon. A.

prices fixed by engineer, of course, 1815. discussed off-take ditches with Fleming, 1815. especially careful to authorize nothing not in engineer's report, 1815.

ONTRACT No. 6.—Steel rails, &c.:

TRUDBAU, T.

public competition invited by advertisement; time postponed, 833. contractors: Guest & Co., 10,000 tons, 834. no Order-in-Council awarding contract, 844. See Steel Rails.

CONTRACT No. 7.—Steel rails, &c. :

TRUDBAU, T.

evidence under contract No. 6 equally applicable, 833. contractors: Ebbw Vale Co., 5,000 tons, 834. no Order-in-Council awarding contract, 844. See Steel Rails.

CONTRACT No. 8.—Steel Rails, &c. :

TRUDEAU, T.

Mersey Steel Co. tendered for 5,000 to 10,000 tons, 834. Cox & Green lower price, 834. awarded contract for 20,000; why increased, 834. telegrams to and from Cox & Green, 836. cannot produce any proof; merely impression, 841. CONTRACT No. 8.—Steel Rails, &c.—continued.

TRUDEAU, T .- continued. increased quantity ordered from Cooper & Co., 841. thinks lower tenderers applied to first, 842. cannot explain correspondence between Cooper and Buckingham, 843. no record indicating by what authority secretary informed tenderers of acceptance, 843. no Order-in-Council awarding contract, 844. COOPER, J. of Cooper, Fairman & Co., 915. as to postponement of tenders, 916. made two tenders: one purports to be on account of Cooper, Fairman & Co.; one on account of Mersey Co., 917. relations with Charles Mackenzie, 917, 919—923. FAIRMAN, F. extent of Cooper, Fairman & Co.'s authority as agents, 1176. no authority to tender for bolts, &c., 1178. Mersey Co. repudiated bolt contract, 1179. agreement mutilated by witness; no authority can be given, 1180. Charles Mackenzie's relations to firm, &c., 1187. subsequent retirement, 2188. does not remember whether before recommending this contract he enquired if more favourable purchase could be made elsewhere, 1357. See Steel Rails. CONTRACTS Nos. 9 AND 10.—Steel rails, &c.: TRUDEAU, T. slight deviations between tenders and contracts as to delivery, 834, 841. contractors: West Cumberland Co., 5,000 tons, 834. Cox & Green, agents, 834, 841. See Steel Rails. CONTRACT No. 11.—Steel rails, &c.: TRUDEAU, T. contractors: Naylor, Benzon & Co., 5,000 tons, 834. witness cannot explain correspondence between Cooper and Buckingham, 843. COOPER, J. as to correspondence with Buckingham, 922. FAIRMAN, F. of Cooper, Fairman & Co., 1187. interest of firm in contract defined, 1184. no formal tender, only a letter, 1184. tendency of market downward, 1185. Bee Steel Rails. Contracts Nos. 6 to 11.—Steel rails, &c.: TRUDBAU, T. public competition invited, 833. schedule of tenders (twenty-five) produced, 833. report by Chief Engineer, 832. tenders and correspondence in return of 2nd March, 1876, to House of Commons, 833. no Order-in-Council awarding contracts, 844. no report on record showing quantity of rails required for use in 1874, 1817. no record of Buckingham's replies to Cooper's telegrams, 1817. not usual that correspondence between tenderers and private secretary should take place, 1818. the Minister decided upon these contracts himself, witness's judgment not asked, 1818. REYNOLDS, T. agent Ebbw Vale Co. and Aberdare Co., 1001. tendency of market in fall of 1874 downward, 1001. steady fall till 1879, 1002. thought in November, 1874, market had touched bottom, 1002.

reasons for purchasing, &c., 1350-1353.

no recollection of Crawford's offer, 1802. See Steel Rails.

no public competition, 1802.

Fleming, 8.

MACKENZIE, HON. A.

CONTRACT No. 12.—Railway location and construction:

TENDERING-

TRUDBAU, T. tenders regularly advertised, &c.; schedule produced, 844. awarded to A. B. Foster, 844. abandoned by consent, 844. \$41,000 paid for surveys under Order-in-Council, 845.

ENGINEERING-

MURDOCH, W.

after leaving Government service, in 1874, became Foster's engineer,

instrumental survey: French River to Amable du Fond, 801. condemned proposed road, corroborated by Shanly, 802. opinion not shared by Hazlewood, his examination not thorough,

no probability of feasible route when contract awarded, 803.

route with heavier grades might be had, 803.
witness proposed Ottawa Valley route, 804.
determines terminus on Canada Central Railway on Lake Nipissing,

December, 1878, soundings Lake Nipissing, 805. size of party eighteen, 805.

FLEMING, S.

Georgian Bay Branch part of Canada Pacific Railway system, 1358. direction and location established by Order-in-Council, not recommended by witness, 1358. Order-in-Council passed on Hazlewood's report, 1359.

never could see immediate necessity for that work, 1359. thinks line not selected on engineering grounds altogether, 1359.

witness trusted to Hazlewood, 1360.

Foster reported 20th December, 1875, difficulties as to gradients, 1361. endorsed by W. Shanly, 1361. witness recommended further surveys, 1362.

as to Lumsden's location, 1363. Foster's claim for \$63,000, 1364.

witness reported that expenditure would be available in future, 1365. Foster's detailed account for Georgian Bay Branch survey, \$24,532, paid \$31,838, 1365. witness cannot explain this, 1365.

Smith, M.

in 1877 Lumsden started to locate from French River to South River, Lake Nipissing, 1569. survey from French River westward, 1570.

MACKENZIE, HON. A.

\$41,000 paid Foster on Fleming's recommendation, 1804. Fleming mistaken as to feasibility of route, 1804.

CONTRACT No. 13.—Railway construction:

TENDERING--

TRUDEAU, T.

public competition, 60. lowest tender Charters & Co., 61. Charters withdrew offer, 62.

second lowest, Taylor, who abandoned contract, 63. no claim made against sureties, 63.

Siftor, J.

witness's brother and Ward chief actors, 101. Fairbanks and Farwell joined afterwards, 101. no negotiations with other tenderers, 102.

FLENING, S.

would have preferred, for engineering reasons, letting had been postponed, 1368.

ENGINEERING-

TRUDEAU, T.

change in location, Shebandowan abandoned, 64. contractors claimed damages for delay in locating, 64,

CONTRACT No. 13.—Railway construction—continued.

ENGINEERING-continued.

SIFTON, J.

as to claim on account of delay, 102.

location changed, 102.

thought bill of works nearly correct when tendering, 103. experience as to correctness of estimates with other railways, 103.

CADDY, J. S.

section 13 well finished when he took charge, 619.

Fleming, S.

not ready for contractors, 1319.

damages claimed in consequence, 1319.
first effort to find direct route from Red River to harbour on Lake Superior, 1367.

effort to find route by Shebandowan, 1367. more accurate information should have been had, 1368.

engineering reasons outweighed by public ones, 1368.

water stretches, 1369.

Rat Portage a governing point, 1369. contract let before route determined, 1369.

not much work abandoned, 1370.

no very great inaccuracy as to estimates, 1371.

McLennan, R.

contractor's men arrived before proper location made, 1530. work began 22 miles from Prince Arthur's Landing, 1531. better location had more time been allowed, 1531. work west of Sunshine Creek stopped, 1532.

SMITH, M.

examined section 13 in 1876, 1570.

walked over 20 miles; portions graded, 1570. not satisfied as to measurements, 1570.

left to junior assistants, 1571.

chief causes of extra cost, 1604.

See Engineering.

CONTRACT No. 14.—Railway construction:

TENDERING-

TRUDEAU, T.

let by public competition after advertising, 65.

lowest tender, Wallace & Co., 65.

application for extension of time refused, 65.

contract covers 77 miles, 66.

awarded by verbal order of Minister, 66.

Fleming did not report recommending passing over lowest tender, 67.

SIFTON, J.

had no negotiations with Wallace & Co., 103. conversations with Trudeau before contract awarded, 106. not nearly completed within contract time, 107.

CARRE, H.
bill of works made up from profiles of witness and Brunel, 178.

MACKENZIE, HON. A.

at the time contract was let, was not aware line was not located from river, 1807.

ENGINEERING-

SURVEYS.

CARRE, H.

heard that adoption of southerly line would involve abandonment of work worth \$65,000; net saving by southerly line, say,

\$200,000, 149. does not think abandonment necessary, 150.

a good reute from Falcon Lake to Winnipeg, 150. location of contract by Brunel to Brokenhead, thence by Forrest, 176.

witness's survey only preliminary, 176. Brunel's survey expedited work about a fortnight, 176.

laid out two lines in neighbourhood of, and another south of Cross

Lake, 1446. Jarvis ran line half a-mile north of pesent crossing, 1446. points out in map line he thinks better than that adopted, 1447

CONTRACT No. 14.—Railway construction—continued.

ENGINEERING-continued.

SURVEYS-continued.

CARRE, H .- continued. better line at Cross Lake was found by Forrest, witness not aware of it till long after final location of crossing at Cross Lake, 1455. particulars as to Forrest's line, 1455.

after section 14 put under contract, witness had nothing to do with

it, 1457. how a better line was sacrificed to etiquette, 1458 1462.

section 15 might have been slightly diverted to join improved line at eastern end of 14, 1461.

MURDOCH, W.

told Fleming in 1872 about swamps, Rowan contradicted, 816. ROWAN, J. H.

produces map showing profiles of Cross Lake surveys, 821. survey of contract made in winter, 821.

FLEMING, S. Selkirk terminus selected chiefly on account of its immunity from floods, 1372.

considers it preferable to Stone Fort, 1372. connection with deep water navigation at Lake Winnipeg, 1372. proximity of a large inlet for sheltering shipping in winter, 1372. reasons against Stone Fort, 1373.

Government ownership of land at Selkirk a reason for the selection. 1373.

witness interested in no land there, 1374.

no serious engineering difficulty in making bridge anywhere be-tween Winnipeg and Selkirk, 1374.

river navigable to Stone Fort, 1375.

Вытн, М. walked over some 20 miles under construction in 1876, 1574. suggested to Carre alternative line at Cross Lake, 1580.

Carre found one, but grades not approved by Fleming, 1580. point of junction with 15 an unfortunate selection, 1609.

a mile and a-half rock should have formed part of contract No. 15. 1609

CONSTRUCTION.

RUTTAN, H. N.

east end transferred to Whitehead, 33.

subsidence of muskegs, 33.

embankments, through drained muskegs, unnecessarily high, 33.

SIFTON, J. considered quantities in bill of works correct, 104.

turned out about 60 per cent, in excess, 104. excess in rock due to deviations in line, 104.

contractors making claim on Government (Julius Muskeg), 104. delay in completing contract due to work not having been laid

out, 107. twelve hundred men left because Engineers were not ready, 108.

had to commence five miles back from river, 108. had to build road to get out supplies, 108.

were stopped all winter at Julius Muskeg, 108.

delayed a whole year, 108.

line not located east of Julius Muskeg, 108.

correspondence respecting re-location, 110.

Marcus Smith not satisfied with progress, 110.

suggested arrangements with Whitehead to complete eastern end, 111.

threat to take contract out of contractors' hands, 111. interviews with Whitehead, 111.

arrangement made with Whitehead, 111.

contractors' price 26 cts. per yard and extra haul, 112.

Whitehead got 40 cts., 112. copy of agreement produced, 113.

Marcus Smith said he was acting under instructions, 113.

his threat was made in September, 1878, 114. contractors were quite able to complete the work, 115. contractors' claims for compensation, 116, 121.

coffer-dams, 264.

CONTRACT No. 14.—Railway construction—continued.

ENGINEERING-continued.

```
CONSTRUCTION—continued.
```

SIFTON, J .- continued. teaming plant, 265.

waggon roads, 265. increase of rock, 269.

station ground at Selkirk, 271.

Whitehead's sub-contract, 271-274. CARRE, H.

construction commenced before location of southerly line, 149.

Whitehrad, J.

took over completion of Sifton & Ward's contract under agreement approved by Minister, having necessary plant, which original contractors had not, 238.

has been filling Cross Lake since spring of 1879, 239.

two steam-shovels, three locomotives and 100 men at work night and day, 239. thinks big bay at Cross Lake might have been avoided, 246.

CLARK, A. H. employed two years as walking boss, 259.

contractors' claims for compensation, 260-264.

MOLLOY, J.

contractors' claims for compensation, 315.

Julius Muskeg, 315. re-location of line, 319.

witness's claim on Government, 321.

WHITEHEAD, C

negotiations with Sifton & Co., 327. Rowan, J. H.

contractors' claims: delay, compensated for by extension, 704. changes of location, advantageous to contractor, 704. coffer-dams, foundationless, 704. use of contractor's roads, worthy of consideration, 705. Selkirk station ground, recommended, 705. two miles of contract transferred to Whitehead, 706 original contractors have no claim under this, 707.

question of haulage thoroughly discussed, 709-711.

Carre's southerly line, 1376. some delay, but contractors magnify difficulties, 1378. explains why no maximum limit to haul, 1616.

limited by discretional power of engineer, 1616. limit established in subsequent specifications, 1617.

SMITH, M.

Julius Muskeg, 1575.

muskeg can only be measured in excavation, 1575.

muskeg should have been sounded, 1576. never knew work in Europe being let without fallest previous infor-

mation, 1576.

witness advised cross-logging, 1579.

suggested no material improvement in location, 1579.

Chief Engineer returned in spring of 1877, 1580.

a mile and a-half rock, which should have formed part of contract No. 15, subsequently transferred to Whitehead, 1609. Sifton's claim, 1610

excessive quantities arose from change of location and shrinkage of embankments, 1611.

MACKENZIE, HON. A. transfer of Cross Lake Section to Whitehead, 1807. mere substitution of contractors, 1808. See Engineering.

CONTRACT No. 15 .- Railway construction :

TENDERING-

TRUDBAU, T. submitted to public competition, and let after three advertisements, 67. lowest tender, A. P. Macdonald & Co., 68.

second lowest, Martin & Charlton, 68.

CONTRACT No. 15.—Railway construction—continued.

TENDERING-continued.

TRUDBAU, T .- continued. third lowest, Sutton & Thompson, 69. contract awarded to them by Order-in-Council, 69. further Order-in-Council, recognizing Whitehead as contractor, 69. deposits made with tenders, 71. WHITEHRAD, J lives at Winnipeg since 1874, 211. followed railroading since 12 years old, 211. tender thirteenth lowest amongst twenty-six, 216. did not get contract on his tender, 216. joined Sutton & Thompson after consulting Minister, 216. paid Sutton & Thompson \$10,000, 218, admitted by Order-in-Council as sole contractor, 218. correspondence with Minister respecting Charlton, 218. information as to tenders easily obtainable at Ottawa, 220. the \$10,000 paid to Sutton & Thompson by McDonald in witness's presence, 220. Senator McDonald put up witness's security, 221. agreed to pay him 10 per cent. and share profits with his son equally, 221.

Mitchell McDonald neither wealthy nor experienced, insolvent at the time, 222. paid him \$20,000 which he gave to his father, 222. subsequent settlement with McDonald, \$112,000, 223. Senator McDonald not satisfied with arrangement, 223. reasons why witness was willing to adopt tender \$188,000 less than his own, 226.
respecting Charlton, 228.
McDonald paid Charlton \$20,000, 229. arrangement with Charlton made a few days before contract was let, 231. further evidence as to transaction with Charlton, 236. relative position of tenders well known, 236.
produces agreement and statements of account with Senator McDonald, 241. Senator McDonald charged 10 per cent. on security to Government though that security was in lands, 242.

money paid Charlton at Prescott station, not Cornwall, as stated, 606. further as to agreement with McDonald, 612. MACDONALD, A. P. tendered each time section advertised, 977.

third time contract awarded to his firm, 977.

required conditions Department not willing to concede, 977--980. Charlton and Sutton & Thompson, 981.

SUTTON, R. T.

tendered in name of Sutton & Thompson, 1040. Thompson only lent his name, 1040. virtually sold out to Whitehead for \$10,000, 1041.

respecting telegram denying payment to Charlton, 1043.
negotiation and understanding with Whitehead and McDonald, 1045. when he sold out, thought Charlton had contract, 1045.

Whitehead knew how tenders stood, 1045.

MACKENZIE, HON. A.

extent of witness's knowledge as to Sutton & Thompson's partner-ship arrangements with Whitehead, 1809. not aware of Senator McDonald's interest in contract, 1809. McDonald denied effecting the withdrawal of Charlton, 1809. why Martin was not considered, 1810. Kane & McDonald wanted to impose a condition, 1810.

ENGINEERING-

SURVEYS.

TRUDEAU, T.

work largely exceeds estimated quantities, 69. progress estimates did not give that information, 69. no record of estimated quantities kept, 70. change of grade discussed, 70.

CONTRACT No. 15 .- Railway construction - continued.

ENGINEERING-continued.

SURVEYS-continued.

CARRE, H.

in charge of location survey, June, 1874, 129. party over forty men, 129,

so engaged till January, 1875, 129.

witness afterwards took soundings on Red River, while the party ran a line from Shoal Lake to Selkirk, 129.

in December, 1874, asked to send in plan and profile, 129.

made it roughly on unprinted wall paper, 130.

Frank Moberly and party calculated the quantities from it in Ottawa, 130.

thinks the profile made from it correct, 130. not cross-sectioned or test-pitted, 130.

when in Ottawa, scheduled out quantities, they were enormous, 131. asked to find a better route, 131.

returned for that purpose, June, 1875, 131.

the survey was exploratory and location combined, 131. line finished in December, 1875, 131.

thinks party consisted of fifty, 13i.

ran also the Dalles line at same time, 132. returned to Ottawa, until May or June, 1876, 132.

FLEMING, S.

thinks cross-sections taken two years before advertising for tenders,

essential in such country, 1379.

reads his report of May 16th, 1879, accounting for discrepancies,

corrects statement as to cross-sections, previous page, 1380.

SMELLIE, W. B.

reads letter from Chief Engineer, respecting Carre's evidence, 1484. west of Cross Lake, Carre undertook no more than trial location,

thinks there is no point in Fleming's letter, 1486.

never saw Forrest's line until yesterday (22nd April, 1881), 1488. cannot say if Carre's plans of 1875 survey are in the Department, 1488.

SMITH, M.

found the works would be heavy, 1573. grades about 40 feet, 1573 terminus established by letting section 14, 1574. was not at Cross Lake in 1876, 1574.

CONSTRUCTION.

RUTTAN, H. N.

became engineer for contractor Whitehead on Fleming's recommendation, April, 1877, 25.

reached section 15 in May, 1877, 25.

permanent location not then completed, 25.

ground very rough, could get no cross-sections, 25.

allignments and grades changed, 26.

instructions as to rock bases in water stretches, 26.

Carre the division engineer in charge, 27. final instructions not practicable, 27. rock protection walls authorized by Rowan, 28.

Carre's instructions in June, 1877, to borrow earth, 29.

differences between contractor's engineer and Carre as to classification of material, 30.

thinks Government in April, 1880, owed Whitehead \$60,000 more than admitted, 31.

at that date work taken out of Whitehead's hands, 31.

Rowan's instructions as to earth embankments in July, 1877, 31. saw on first inspection that all material for embankments could be borrowed, no trestle work necessary, 32.

not enough timber on section to build trestle work, 36. should have been well known after five years' surveys, 36.

CARRE, H. appointed engineer on construction, May or June, 1876, 132.

original location line of 1874 adopted, 132. re-located whole section between June and December, 132.

CONTRACT No. 15.—Railway construction—continued.

ENGINEERING -continued.

CONSTRUCTION—continued.

```
CARRE, H -- continued.
       four assistants took measurements of cross-sections and were respon-
                 sible for their correctness, 133.
            thinks final returns were correct, 134.
       cross-sections completed in March, 1877, 134. tenders asked for about time cross-sections were commenced, 134.
       quantities not calculated from cross-sections till 1878, 134.
       changes in grade and allignment, increased rock cuttings and earth
            excavations, 135.
       without specific data, tenders were necessarily speculative, 138.
       accurate quantities conducive to economy, 138.
       cross-sections necessary to accurate calculations, 154.
       quantities calculated from cross-sections, January, 1878, 154.
            after lowering grade two feet, 154.
       rock cutting increased by lowering grade, 113,200 yards, 154. earth excavations increased by changes, 224,000 yards, 155.
       line thereby improved, 155.
       increased cost mainly due to changes and substitution of earth embankments for trestle work, 156.
       deep fillings in water stretches, 160.
       Cress Lake probably requires 222,000 yards, equal to $82,000, 161. trestle work probably $17,500, 161.
       if filled according to original specification, full rock base and trestle,
$345,832, 162.
       as actually executed, $142,500, 162. trestle cheaper in heavy land voids, 163.
       instructions from superior officer, 161.
       refused contractors certain information, and why, 164.
       cross-sections not returned from Ottawa till September, 1877, 164.
            meantime change of grade, 165.
            grade determined in Ottawa four months after contract com-
                 menced, 166.
       solid rock bases found impracticable, 166.
       witness proposed protection walls, approved October, 1877, by
            Rowan, 166.
       protection walls temporarily approved in August, 167.
       instructed to substitute earth for trestle wherever possible in summer
       of 1877, 168.

ordered by Rowan not to touch a stake, 169, 1476.
Rowan's inspection of line described, 170.
       witness's suggestions ignored at Ottawa, though supported by Rowan, since carried out by Schreiber, 171.
       in charge of construction four years, 171
       Haney made superintendent in June, 1880, 171.
       Rowan's letter permitting earth borrowing produced, 172.
       left in uncertainty as to grades, 172.
       statement showing comparative quantities for rock bases and protec-
      tion walls respectively, produced, 175.
differences between Government and contractor's engineers as to:
            bottoms left in cutting, 179.
            loose rock, 180.
            margin for finishing work, 180.
       rock outside of prism, 180.

Fleming's and Smith's interpretation of loose rock clauses, 181—187.
       recommended permanent bridge at Lake Deception, 188.

not responsible for discrepancies between bill of works and estimate of 1879, 1474.
        grades were altered, 1474.
       bill of works did not include fillings for shallow voids, 1475.
       determining grades determined quantities irrespective of his calculations, 1477.
       trestle work superstructures very expensive, 1477.
```

calculation as to increase of quantities by lowering grades, 1478. increase due to caange in definition of loose rock, 1478.

proposed rock protection walls adopted by Smith, 1483,

trestle work as originally designed worth \$52,180 per mile for super-

further items of increase accounted for, 1481.

structure alone, 1481.

CONTRACT No. 15.—Railway construction—continued.

ENGINEERING-continued.

CONSTRUCTION—continued.

Carre, H.—continued.

muskeg material described, 1483.

correct figures given in previous evidence, 1489.
length of treatle, 11,841 feet, at \$9.83 a foo for superstructure; cost per mile, \$51,902, 1489.

further details as to superstructure, 1490.

Rowan's visits to the section, 1491.
grades and curves used under Schreiber's directions which witness was not allowed to use, 1493.
grades increased from '35 to '50 per 100, 1494.
superseded by Haney, February, 1880, 1500.
differences between Haney and witness, 1501.

WHITEHBAD, C.

lived on section 15 from June, 1877, till May, 1880, as contractor's manager, 203.

difficulties between contractors and Government engineers, 204.

determination to substitute earth filling for treatles first known through Rowan, September, 1877, 205.

instructions as to Lake Deception, 205.

Rowan's directions, 206.

Government took over contract without negotiation, 207.

thinks Marcus Smith's first visit was December, 1878, 207.

differences with Government engineer as to loose rock, &c., 207—210.

difficulty with Rowan as to culling ties, 211.

WHITEHEAD, J.
expected when contract entered into that specifications would be adhered to, 225.
change from trestle to earth work beneficial to contractor, 225.
trestle work could not have been completed in twenty years, 225.
his reasons for this statement, 225

signed contract January 9th, 1877, 230.
understood in February trestle work would be used, 230
was not examined before Parliamentary Committee, 231.
dispute with Government Engineer as to loose rock, ties, &c., 232.
thinks about \$96,000 was kept back, 232.
got advance about \$45,000 on plant, 232.
advised to take partners, 232.

Fraser & Grant's names sugges ed by Cooper, Fairman & Co., 234. had large ransactions with Cooper, induced by his pressure to take partner, 235.

expects net proceeds of contract as carried out by Government, 236.

conversations with Rowan as to earth fillings, 240.
Government have advanced large proportion of margin retained under contract as security, 626.
Fracer, J. H.

arranged to buy half Whitehead's contract, 256.
arrangement made through Cooper, Fairman & Co., 257.
no conversation with any one at Ottawa respecting partnership,
258.

found Whitehead more involved than they thought, 259.
partnership with Whitehead not due to departmental influence, 648.
made by Grant through Cooper, 648.

ROWAN, J. H.

trial line made to avoid Cross Lake, 703.
heavier rock, greater curvature, increased length, 703.
difficulty of getting grades, 703.
change from trestle to earth authorized by Marcus Smith, 738.
increased cost probably \$250,000, 739.
further increase due to change of grade, and partly to inaccuracy

rther increase due to change of grade, and partly to inaccuracy of quantities originally given, 739. explanations in reference thereto, 739.

quantities based on centre line only, 740. how far Carre was responsible for discrepancy, 740. differences with contractor's engineer as to rock measurements, &c.,

742.
trestle and warth bank equal at eighteen feet, 744.
value of work done when discrepancy discovered, \$437,000, 821, 822.

INDEX.

CONTRACT No. 15.—Railway construction—continued.

ENGINEERING-continued.

CONSTRUCTION-continued.

SCHULTZ, J., M.P.

Whitehead in financial difficulties, 718.

Grant's offer seemed only way out, 718. reasons for thinking no Ottawa influence used, 719.

Brown, G.

never heard from Whitehead or Tuttle that hope of political influence led former to assist latter, 727.

Whitehead attacked by Winnipeg Free Press, wanted means of defence, 728.

TUTTLE, C. R.

Cooper, Fairman & Co. furnished contractors, not the Government, with supplies, 764.

Cooper & Co. assisted witness long before he started a newspaper. 765.

how he came to know Whitehead, 765.

COOPER, J.

part taken in Whitehead's partnership arrangements, 924.
purely on business basis; thinks no Government influence used, 924.
had large claim against Whitehead for explosives, 925.

HAGGART, J., M.P.

object of moving for Committee of enquiry, 1012.

no prior conversation with Whitehead, 1013.

Committee reported before witness spoke to Mackintosh, 1014.

conversation with C. Whitehead, 1014.

Mackintosh's relations with Whitehead first known to witness, 1880, 1015.

Bowis, A.

one of Whitehead's sureties with Mackintosh, 1150.

considered signing Whitehead's bond mere matter of form, 1151.

TUPPER, SIR CHARLES.

drawback allowed to Whitehead in pursuance of departmental

practice, 1278.

Order-in-Council surrendering drawback covered what had been advanced by predecessor, 1278.

Mackintosh's relations with Whitehead, 1279.

ample security, 1281.

Order-in-Council doing away with sureties, 1282.
Whitehead supported on public grounds, 1283.
advances not applied towards progress of work, therefore stopped, 1283.

finally taken over by Government, 1284.

why partnership with Fraser not assented to, 1284

embankment substituted for trestle during preceding Administration, 1285.

Council recommending embankment acted on by Minate to Department as if approved by Council, 1286.

POPE, HON. J. H.

advance to Whitehead, 1303.

bill of sale on plant, 1303. negotiations with Whitehead, not Mackintosh, 1303.

interview with Macdougall, 1304.

advance to Whitehead made in public interest, 1304.

FLEMING, S.

reasons for location of line, at Cross Lake, 1380.

SMELLIE, W. B.

increase of grades extends over short portion of line, 1497. as to reduction, 1498.

SMITH, M.

suggested slight changes reducing cost, 1605. location on the whole not bad, 1605.

difficulty of getting timber for treatles, 1606.

trestles in some cases impossible, 1606.

some trestles would have been 60 feet, 1607.

cost of moving rock, 1607.

Cross Lake, 1608.

considering required grades, present location at Cross Lake as good as any, 1608.
question of re-locating line at junction of 14 and 15 not taken up

by witness when on ground in 1878, 1609.

CONTRACT No. 15 .- Railway construction -continued.

ENGINEERING-continued.

CONSTRUCTION - continued.

SMITH, M -continued.

junction badly selected, 1609.

section 15 should have extended a mile further west, 1609.

SCHREIBER, C.

vis:ted section December, 1879, 1769.

character of work good but torce on work deficient, 1769.

financial inability of contractor led to Government assuming work in March, 1880, 1770.

change in general location impracticable at that time, 1770. work too far advanced to consider advisability of any alternative lines, 1771.

CARRE'S ALTERNATIVE SOUTHERN LINE.

RUTTAN, H. N.

describes more southerly feasible line by which \$500,000 to \$750,000 might have been saved between Keewatin and Winnipeg, 34.

southerly route would have saved \$275,000, 140.

reported strongly to Rowan in favour of southern line, 142. alternative line run before second advertisement inviting tenders

appeared, 1453.

detailed evidence respecting proposed line, 1464. would have cost less, 1464.

estimated difference in cost \$472,986, 1466.

explains evidence before Senate Committee in May, 1879, 1469.

fewer water stretches, 1470.

his views submitted to Department in winter of 1875-76, 1471.

if adopted, \$68,000 expended on section 14, would have been lost, 1471

Julius Muskeg would have been avoided, 1472.

ROWAN, J. H.

views as to alternative southern line, 702.

Carre's southerly line in some respects favourable, 731.

but work executed on contract No. 14 would have had to be aban-

doned, 732.

had route west been south of Lake Manitoba. Carre's line would have been cheaper, 732.

FLEMING, S.

suggested line compared with present one, 1376.
thinks rough land less, but quantities and mileage greater, 1376.

work on contract No. 14 not proceeded so far that abandonment precluded adoption of suggested line, 1376.

still thinks selection of existing route judicious, 1377. suggested line might have been preferable had Winnipeg been

objective point, 1380.

produces letter of 4th May, 1881, from Rowan, asserting saving only \$100,000 from its adoption while lengthening line five miles and

a-half, 1630.

SMITH, M.

witness's views endorsing this route, 1596. See Engineering.

CONTRACT No. 16.—Railway construction:

TRUDEAU, T.

extension, Douglas to Nipissing, 846.

no public competition; Order-in-Council granting \$12,000 per mile, 846

work abandoned, 846.

letter of President, 22nd August, 1874, praying for subsidy, 1215.

reported on by Chief Engineer, 6th October, 1874, 1215. Order-in-Council, 4th November, 1874, ratified by House of Commons, 13th March, 1875, 1215.

company contract with A. B. Foster, 1215.

26th October, 1875, Foster reports difficulties, 1216.

10th February, 1877, route by Ottawa Valley proposed, 1217.

approved by Order in Council 18th April, 1878; subsidy, \$1,440,000,

1218.

Contract No. 16.—Railway construction—continued.

TRUDBAU, T .- continued. formal contract thereunder with McIntyre & Worthington, 1218. FLEMING. S.

route not chosen on engineering grounds, 1366.

contract let on walking exploration, 1366. witness's authority for action, Order-in-Council, 4th November, 1874,

MACKENZIE HOR. A. as to loan of rails to Foster, 1811.

CONTRACT No. 17.—Transportation of rails:

TRUDBAU, T.

arranged through Cooper, Fairman & Co., 846. Braun telegraphs offer to Cooper, Fairman & Co., 846. further correspondence in relation thereto, 847;

no correspondence as to specific contract with Anderson & Co., the shipowners, 847.

FAIRMAN, F.

Cooper, Fairman & Co.'s offer at £2 per ton, 1182.

witness acted in shipper's interest, 1163.

did not hear that less than £2 was paid, or that more than £2 was agreed on, 1185.

FLEWING, S.

witness not concerned in this contract, 1381.

CONTRACT No. 18.—Transportation of rails:

FULLER, R.

tendered, but did not get contract, 472. contract given to Red River Transportation Co., 473.

witness's offer the lowest, 473.

namely, \$13.50 per long ton, American currency, from Duluth toWinnipeg, or \$15 to Selkirk, 473.

no conditions as to channel of Red River, 473. competing lines justified witness's offer, 1294.

remarks as to long and short ton, 1295.

ROWAN, J. H.

produces letter from Ottawa, 25th June, 1875, his first communication on the subject, 731.

told contractor to land rails at Selkirk; he refused, 748.

TRUDBAU, T.

no formal contract, 848. no advertisement for tenders, 848.

produces Fleming's report on Fuller & Milne's offer, 848. which is simply acknowledged, 849. cannot explain why another offer at a higher price was accepted, 850. nine thousand short tons for Pembina Branch, the rest for Selkirk, 967.

Fuller's offer more favourable than that accepted by \$13,500, 967. that advantage increased if offer based on long ton, 967.

no conditions by Fuller as to depth of water, 968.

rails did not reach Selkirk by water, 967. necessity for their transport hastened Pembina Branch North, otherwise \$11,500 additional expense incurred, 968.

Fleming estimates transport expenses saved by prematere building of

Pembina Branch North, at \$30,000, 968. possibly verbal arrangement with Hill made by Minister before receiving Fuller's offer, 969.

witness places the loss at \$15,000, 970.

CAMPBELL, G.

a ton of rails understood to be 2,240 lbs., 1120.

Pluming, S.

can recollect nothing about it, 1382. the long ton understood in respect of rails unless otherwise specified, 1398

MACKENZIR, Hon. A.

reasons why Kittson.get contract at higher price than Fuller, 1812. does not remember whether question of long or short ton was considered, 1813.

See Contract No. 28.

CONTRACT No. 19.—Engineer's house at Read :

TRUDBAU, T.

amount of contract, \$1,600, 867. contractor : Moses Chevrette, 867.

CONTRACT No. 20.—Transportation of rails:

TRUDEAU, T.

arranged through Cooper, Fairman & Co., 927. public competition invited; tenders produced, 927. contractors not mentioned in schedule, 927. B. Samuel lowest tenderer, \$6, 927. Order-in-Council 30th April, 1875, awards to Cooper, Fairman & Co.,

contract claimed under Mersey Co.'s tender, 929.

witness thinks their claim not a good one, 931. \$12,400 would have been saved had Perkins & Co.'s offer been accepted: instead of Cooper, Fairman & Co.'s, 931.

no authority from Mersey Co. to tender for inland transport, 1187. Uooper, Fairman & Co. interested with contractors, 1190. tender in own names, 1191. no reference to transportation in Mersey Co.'s tender, 1192, price, with extras, \$6.20, 1193.

Plumine, S.

had nothing to do with this, 1382.

CONTRACT No. 21.—Transportation of rails:

TRUDEAU, T. tenders asked for by Morin, 867. cannot explain how Cooper & Co. had prior information, 867. managed entirely by the Deputy Minister, 1382.

CONTRACT No. 22.—Transportation of rails:

TRUDBAU, T. offered to public competition by circular, 932. Chief Engineer's report recommending Holcomb & Stewart produced, 932.

explains his recommendation, 1382.

CONTRACT No. 23.—Railway ties:

TRUDBAU, T. let after public competition, 868. satisfactorily fulfilled, 868.

CONTRACT No. 24.—Erection of a house:

TRUDBAU, T.

amount of contract, \$3,500, 868.

Fleming, 8.

instructed, 15th May, 1875, to authorize Hazlewood to enter into-arrangements as above, 1383.

CONTRACT No. 25.—Railway construction:

TENDERING-

TRUDBAU, T.

report of engineer, 72. Purcell lowest tenderer, 72. tenders opened on day stated in advertisement, usual delay of two or three days not accorded, 72.

interested in tender of Brown, Brooks & Ryan, 1220. not lowest and not accepted, 1220. contract awarded to Purcell, whom witness joined, 1220. Purcell's tender lower than any other by \$100,000, 1239.

Sugar ..

CONTRACT No. 25 .- Railway construction -continued.

TENDERING—continued.

FLEMING, S.

Purcell lowest tenderer, 1384.

bonus to hasten construction, 1384.

figures on tender altered, 1384.

explanation of witness's part in transaction, 1386. respecting increase of bonus and penalty, 1387.

McLennan, R.

had no communication with contractors before contract awarded. 1535.

ENGINEERING.

SURVEYS.

FLEMING, S.

object of surveys to obtain most favourable line irrespective of soil, 1390.

summer surveys were made but no boring done, 1390.

how contents of embankments should be paid for, 1391.
these views not of general applicability, 1391.
two and a-half yards of muskeg moved to make one in embankment, 1392.

thinks borrowing might have been resorted to, 1393.

took steps to prevent similar difficulty in future, 1393, facts as to difference between McLennan's and Bell's measurements, 1396.

has not been on ground himself, 1397.

McLennan, R.

in winter of 1875-16 made survey north of Lake Shebandowan, 1534. profile sent to Ottawa, 1534. thinks estimate of quantities based on this, 1535.

CONSTRUCTION.

TRUDEAU, T.

estimates considerably exceeded, 73.

re-measurement ordered, reducing first quantities, 73.

CADDY, J. S.

position of section when he took charge, 649.

much muskeg, 649.

considerable settlement of road-bed, 650.

disputes with contractors, 654. subsidence of embankments, 654.

RYAN, H.

work completed, October, 1879, 1220.

dispute regarding quantities, 1221.
re-measured by L. G. Bell, excess chiefly in earth and rock, 122.

McLennan made first measurements, 1222.

piling ten times as much as estimated, 1223.
discrepancy due to ignorance of country, location made in
winter, 1223.

shrinkage of embankment, 1224,

increase in off-take ditches, 1224,

changes increased cost but shortened and improved line, 1224.

shrinkage of muskeg, 1225.

could easily have ascertained depth of bogs, &c., in winter, 1227. bog in all cases lying on hard material, 1227.

allignment is right, 1227.

reason for lowering grades and increasing number of ditches, 1228.

road somewhat narrower than specified, 1229.

reason why re-measurements could not be correct, 1230.

no allowance in estimates for muskeg earth, 1245.

FLEMING, S.

quantities greatly in excess, 1388.

thought at the time information sufficient for letting work, 1388.

nature of soil not understood, 1389.

principles which should guide an engineer as between Government and contractor, 1631.
principles applied to muskeg question, 1632.

Government should fix price for muskeg material if none in contract,

CONTRACT No. 25.—Railway construction—continued.

ENGINEERING—continued.

CONSTRUCTION—continued.

FLEMING, S.—continued.

sub-section 3 of clause 17 classes muskeg as earth, 1634.
earth measured in excavation, 1636.
thinks muskeg should be measured in embankment, 1636.
directions to stop further certificates, 1654.
on discovering cause of excess, sent instructions to engineers, 1655.
specific instructions to Jennings, 1656.
instructions to measure muskeg in embankment, 1657.
Order-in-Council governing procedure thereafter, 1658.

McLennan, R.

quantities turned out much larger than estimate, 1536. made material changes, 1536.

shortened line nearly two miles, 1537. changes hastened completion of line, 1537.

and decreased cost, 1538.
good deal of muskeg, 1539.
subsidence of muskeg in embankments, 1539.
general sinking of muskeg country when drained, 1540.
some reasons for discrepancy between the two measurements, 1541.
measured material in excavation, 1544.
tunnel of 515 feet, 1546.

Smith, M. chief causes of extra cost, 1604.

Smellie, W. B. tunnel decided on in 1876, 1614.

SCHERIBER, C.
held different views from Fleming as to muskeg measurement, 1772.
must be measured as earth work in excavation, 1772.
substitution of earth for muskeg might have lost two years without

increasing efficiency, 1773.
earth five times the weight of dry muskeg, 1773.
excavation of muskeg necessary to drain country, 1773.
muskeg "blinded" the finest of embankments, 1774.
sinkage vs. shrinkage, 1775

results of re-measurement compatible with correctness of original measurement, 1776.

MACKENZIE, HON. A.
as to price of tunnelling, 1816.
See Engineering.

CONTRACT No. 26.—Construction of engine house:

TRUDEAU, T.
public competition invited, 933.
awarded to lowest tenderer, 933.
work satisfactorily performed, 933.
FLEMING, S.
immaterial evidence, 1398.

CONTRACT No. 27 .- Transportation of rails:

TRUDBAU, T.
public competition invited, 934.
FLEMING, S.
his evidence herein, 1398.

CONTRACT No. 28.—Transportation of rails:

TRUDBAU, T.

based on an offer from Kittson, 1046.
engineer's recommendation subsequent to Kittson's offer, 1046.
no record of previous communication with Kittson, 1046.
no other competition, 1046.
expenditure included under contract No. 18, 1046.
amount involved and properly chargeable against this contract,
\$143,000, 1047.
amount expended under contracts Nos. 18 and 28, \$215,679,52, 1153.
contract No. 18 for 5,000 short tons. 1153.
contract No. 28 not the result of public competition, 1153.

CONTRACT No. 28.—Transportation of Rails—continued.

FLEMING, S.

recommended that provision should be made for transport May 13th, 1876, but took no further part in this specific arrangement, 1399.

MACKENZIE, HON. A.

cannot say why not subjected to public competition, 1814. See Contract No. 18.

CONTRACT No. 29.—Railway spikes:

TRUDBAU, T.

awarded after advertisements and competition, 934.

Fluming, S.

witness prepared specifications; no other part in this transaction, 1399.

CONTRACT No. 30 .- Bolts and nuts:

THUDBAU, T.

contractors, Cooper, Fairman & Co., agents for Robb & Co., 935. offer accepted without competition, 935. how contract came to be made, 935.

recommended by Fleming, 936.

FAIRMAN, F.

Gooper, Fairman & Co. had to pay duties, 1197. contract brought about by letter of Gooper, Fairman & Co., 1198. cannot remember as to state of market, 1198. price received \$101 per ton, 1198. learned since that bolts and nuts were offered at a lower figure, 1199. no explanation why Government should accept a higher offer, 1199.

FLEMMING, S.

cannot explain why he recommended this contract, 1399.

thinks it quite likely he did not give it much attention, 1400. Mackensin, Hon. A.

made with Cooper, Fairman & Co. without public competition, 1814. cannot say if steps were taken to get better offer, 1814.

CONTRACT No. 31.—Bolts and nuts:

TRUDBAU, T.

no public competition, 937. Cooper, Fairman & Co.'s offer accepted on Fleming's recommenda-

tion, 937.

FAIRMAN, F. offer spontaneous, 1200.

could not say if the market had fallen, 1200. interview with Minister and Deputy, 1200.

TPMTVA Q

KING, S.

no recollection about it, 1401.
in recommending it no doubt thought the proposal was a reasonable one, 1401.

MACKENZIE, Hon. A.
a spontaneous offer, accepted without public competition. 1814.

CONTRACT No. 32.—Railway spikes:

TRUDEAU, T.

public competition invited, 937. prices varied from \$54.95 to \$75 per ton, 938.

Cooper, Fairman & Co.'s tender 5 cts. per ton less than next tender, 938.

FAIRMAN, F.

Cooper, Fairman & Co. offered to supply spikes at price in July, 1878, 1201.

cannot explain how he knew that 190 tons were wanted, 1201. cannot speak as to relative prices in July, 1876, and January, 1877, 1202.

soon after tendered at \$54.95 instead of \$57, 1202. Pillow, Hersey & Co. tendered at \$55, 1202.

Cooper, Fairman & Oo. often worked with them, 1202. cannot recollect details, 1203.

FLEMING, S.

as to Cooper, Fairman & Co.'s letter of 19th July received before tenders were invited, witness cannot explain, 1401.

CONTRACT No. 32 A .- Engineers' houses:

TENDERING-

TRUDEAU, T.

let by public competition through Hazlewood on Fleming's authority,

no record of other authority, 964.

expenditure, \$17,730, 964.

Hazlewood had general authority, 1402.

CONSTRUCTION-

TRUDEAU, T.

explanation as to excess of price, certain materials burnt, M. Smith's recommendation as to delaying erection, 990.

CONTRACT No. 33.—Railway construction:

TRUDEAU, T.

Kavanagh's tender the lowest, 55.

contractors failed to execute the work; taken out of their hands, 56. subsequently done by days' work, 5%

ROWAN, J. H.

ordered to take work out of contractors' hands and complete by days' labour, 749.

KAVANAGH, T.

witness's the lowest tender; contract offered to him, 835.

partner objected to by Mackenzie, 836.
Murphy & Upper took contract at his figures, witness consenting, 836.

further evidence, 840.

MACDONALD, A. P. about Kavanagh's relations with Falardeau, 981.

FLEMING, S.

contract entered into during witness's absence, 1402.

CONTRACT No. 34.—Transportation of rails:

TRUDEAU, T.

let by public competition, 956.

transportation from Fort William included in this contract in Fleming's report of 1879, improperly so placed, 987. the contractors were the same, the North-West Transportation

Co., 957.

that work let without public competition, 957.

Fort William to Emerson, \$18; same price as from Kingston, 965. arranged for by correspondence authorized by Minister, amount \$27,864, 966.

knows no reason why it should be included under contract No. 34, 968.

CAMPBELL, G.

twenty years' experience freighting, 1119. \$1.50 gross ton fair rate from Fort William to Duluth, 1120.

1873 to 1879 cheap years, 1120.
witness's line carried mails on Lake Superior in 1874 and 1875, 1120. in fall of 1878 Collingwood line available in competition on Lake Superior, 1120.

further evidence as to prices of Lake Superior freight, 1121-1125.

Fluming, S.

knows very little about it, 1402.

MACKENZIE, Hon. A.

does not remember the facts, 1816.

CONTRACT No. 35.—Railway spikes:

TRUDEAU, T.

spikes made at Montreal, 957.

other tenders would have been lower minus daty, 967-958.

duty always considered in foreign tenders, 958.

FAIRMAN, F.

5 cts. lower than the next highest tender, 1203. not the result of departmental information, 1203.

FLEMING, S

nothing to do with it, 1403.

CONTRACT No. 36.—Railway ties:

TRUDEAU, T.
tenders opened by Nixon, 57.
management left to Marcus Smith, 58.
considers Nixon made proper selection, 58.
Robinson's tender accepted by Order-in-Council, 58.
delays in execution, 58.
contract taken out of contractor's hands, 58.
ROWAN, J. H.
Robinson failed to perform his contract, 749.

CONTRACT No. 37.—Railway construction :

TENDERING-

TRUDBAU, T.
submitted to public competition, 993.
work authorized by Order-in-Council, 2nd September, 1878, 993.
let to lowest tenderers, Hency & McGreevy, 993.
no report by engineer, 994.

ENGINEERING-

SMITH, J. N.

became a partner with Government's consent, 949.

work stopped by Government, 950.

nature of claim sgainst Government, 950.

actual outlay \$100,000, 951.

loss of contemplated profits, 951.

TRUDBAU, T.

work stopped by Orders-in-Council, 995.
date, 25th July, and 14th August, 1879, 995.
contractors' alleged claim under consideration, 995.
McGreevy withdrew and Heney took other partners, 996.

TUPPER, SIR CHARLES. reasons for cancelling the contract, 1275.

CONTRACT No. 38.—Neebing Hotel:

TRUDBAU, T. competition invited and lowest tender accepted; amount involved, \$3,400, 958.

FLEMING, S. not in Canada at the time, 1402.

*Contract No. 39.—Transportation of rails:

TRUDBAU, T.

public competition invited, 958.

Braun telegraphs Robson, Victoria, to advertise for tenders, 12th
June, 1878, 973.

Order-in-Council passed 13th July, 974.

letter from Robson, 19th June, suggesting extension of time as
likely to lower offers, 974.

no record as to any consideration of this, 974.

work stopped 31st October, 974.

rails not then required at Yale, 974.

nothing to show whether weight of ton was considered or not, 975,
1865, S.

not in Canada at the time, 1402.

CONTRACT No. 40.—Engine house:

TRUDBAU, T.

public competition invited, 973. Gouin & Co. lowest tenderers, 973. authorized by Order-in-Council, 973. satisfactorily completed, 973. explains extras under this contract, 991.

CONTRACT No. 41.—Railway construction:

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TENDERING-
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TRUDEAU, T. submitted to public competition after advertising, 75. time for receiving tenders extended twice, 76. lowest tender, Marks & Conmee, 76. correspondence as to Purcell and others being admitted, 76. this correspondence subject of a return to the House, 76. two-fold condition as to time of completion, 77. no difficulty with contractors, 77. Chief Engineer's report of tenders 40 and 41 produced, 78.

BOWIE, A.

one of the sureties of Charlebois & Co., 1142. took no part in arriving at prices, 1143. not aware of any information having been given by officers, 1144.

RYAN, H. witness's tender not the lowest, 1231. work awarded to Marks & Conmee, 1231. whom witness joined, 1231.

no Government influence, 1232.

Marks' prices in some cases very low, 1232. utilization of plant the main inducement to join contractors, 1239.

TUPPER, SIR CHARLES Marks & Conmee lowest on A, not sufficient financial standing, 1264.
asked if they could strengthen themselves, 1264.
no suggestion as to acceptable names, 1265.
Marks & Conmee bore loss arising from their errors in tendering, 1275.

FLEMING, S.

time extended to obtain more accurate quantities, 1403.

separate tenders lower than combined, 1404.

recommended that tenders for short periods should not be entertained, 1405.

would have preferred letting combined sections to men of known capacity, 1406.

does not recollect objecting to pecuniary standing of Marks & Conmee, 1410

no recollection of conversations with Purcell & Ryan, 1410.

pointed out to Minister mistake in tender and suggested contractors should be informed of it, 1411.

Minister insisted on their executing contract according to tender, 1411. after the experience on contract No. 25, no special provisions made as to muskeg country, 1412.

ENGINEERING-

CADDY, J. S.

witness's opinion as to contractors' prices, 655. about muskeg earth, 655, inconsistent prices, 656.

deviations result in clay instead of rock, 657.

RYAN, H.

allignment considerably changed, 1234. changes will save \$300,000, 1234. made by Bell and Middleton in 1879, 1234.

FLEMING, S. instructions to Jennings and others as to measuring muskeg earth, 1414. pressed importance of despatch on Minister, 1418. See Engineering.

CONTRACT No. 42.—Railway construction:

TENDERING -

TRUDBAU, T. usual public competition, 78. same advertisement as contract No. 41, 78. similarly reported to the House, 78. lowest tender, Morse, Nicholson & Marpole, 78. who withdrew their tender, 78. second lowest, Andrews, Jones & Co., 78.
who failed to make deposit, 78.
third lowest and successful tender, Fraser, Grant & Pitblado, 79. as to introduction of new names, 79. no disputes between contractors and Department, 80. Chief Engineer's report of tenders for 40 and 41 produced, 80. respecting irregular tenders, 80. none lower than tender accepted, 81.

INDEX.

CONTRACT No. 42.—Railway construction—continued.

TENDERING—continued.

FRASER, J. H. of Fraser, Grant & Pitblado, 247. firm put in tenders for sections A and B and one for the whole, 248. contract first awarded to Nicholson, Morse & Co., 248. who were negotiating for their security when witness first became acquainted with them, 249. supposed that Andrews, Jones & Co. got eight days to put up their deposit, 250. Manning wanted to take an interest, 251. terms agreed upon, 252. understood from one of Manning's firm that Andrews, Jones & Co. would fail to put up security, 252. thinks Andrews, Jones & Co. had ample time to furnish security had they wished, 255.

Fraser, Grant & Co. sold out to Manning, Shields & McDonald, 256. first intimation of Close's interest, 643. witness not privy to arrangement, 644. general impression that Andrews, Jones & Co. would not put up security, 644. McDonald, J. J.
of the firm of Manning, Shields & McDonald, 299.
joined Fraser, Grant & Co., the contractors, 299. arrangements provisionally made before contract was let, 299. subsequently bought out Fraser, Grant & Co., 302. respecting arrangement with P. G. Olese, one of Morse & Co.'s bondsmen, 303. respecting information gained about tenders, 304. respecting amount promised to Chapleau, 305. history of this arrangement, 306. SHIELDS, J. of the firm of Manning & Co., 307. arrangements with Fraser, Grant & Co., also with P. G. Close, 307-313. witness's withdrawal from the firm, with substitution of his father, 313. MANNING, A. became interested with Fraser, Grant & Pitblado, 496. did not become interested with them until after they got the contract. 497. merely entered into it to help other people, 497. a matter of indifference to witness, 497.

a matter of indifference to witness, 497.

no recollection of Fraser & Co.'s letter of 29th February, addressed to Minister of Public Works, suggesting an amalgamation, 499. CHAPLBAU, S. E. ST. O. practice of Department, 850. transaction with McDonald, 852. with Smith, 853. use of patent, 855
See Chapleau; Influencing Clerks. Smith, J. N. carries on business in New York, 938. visited Ottawa as intending surety, 938. subsequent negotiations with Andrews, Jones & Go. as to machine hip, their promise to put up security without proper-foundation, 941. does not remember Chapleau's arrangement as to telegraphing, 942. moneyed men at witness's back refused to entertain the project, 942 refusal chiefly due to imminent breaking up of winter, 943. relations with Chapleau, 947. never any talk as to Chapleau's partnership, 948. Goodwin, J. tendered unsuccessfully for sections A and B, 1005. negotiations with Andrews, Jones & Co., 1006. finally declined to join them, 1008. HAGGART, J., M.P. made enquiry as to alleged haste in passing over Andrews. Jones &

gives explanation offered to him, which he deemed satisfactory, 1016.

Co., 1016.

CONTRACT No. 42.—Railway construction—continued.

TENDERING-continued.

Morse, G. D witness's firm tendered for A and B peparately, and collectively under C, 1048. B awarded, 1049 withdrew from offer, 1049. negotiations with Close and Shields, 1051. lowest separate tenders less than their combined tender, 1052. proposition to join next highest tender, 1053. agreement made before withdrawing, 1054. evidence as to deposits, 1055
not all put up within the time, 1056.
negotiations with F. Shanly, 1057. March 5th, notified contract awarded to Fraser, 1058. negotiations with Olose, 1060. MARPOLE, R. of Morse, Nicholson & Marpole, 1063. negotiations with Close and Shields, 1064. tendered for sections B and C, 1065. tender for B not conditional, 1066 relative position of tenders known, 1066. known immediately after tenders in, 1067. believes that Shields had no advantage over others as to information, 1071. witness disagreed with partners as to prices, 1072. Shields advised lower prices, 1072 Fleming and Smith said prices too low, 1073.
before declining contract arranged with next highest tender, 1074.
when Jones and Smith left Ottawa expected they would put up security, 1075.

not aware that Smith's decision depended on others in New York, 1075. as to delays in putting up security, 1076. hardly expected extension, 1077. notice of contract being awarded to Fraser before entire deposit was made, 1077. conditional arrangements with F. Shanly, 1078. thinks no just complaint can be made, 1079. agreement with Olose modified, 1084. Boultbee not personally interested, 1084.
not aware of any benefit to Member of Parliament or official, 1084. McCornick, A. undefined interest in Morse & Co.'s tender, 1079. present during negotiations with Shields and Close, 1080. Boultbee's relations thereto, 1080. informed Minister that only the combined sections would be accepted, reasons why notification not given in writing, 1083. NICHOLSON, F. of Morse & Co., 1085. made no tender for A separately, 1085. tender for section B wholly unconditional, 1086, notified 20th February that section B was awarded to witness's firm, 1087. declined contract, 1087. agreement with Andrews, Jones & Co. produced, 1088. communicated substance of arrangement to Minister, but withheld certain information, 1090. difference between witness's tender and that of Andrews, Jones & Co., \$448,4:6, 1091.
neither Smith nor Jones in Ottawa, between 26th February and 5th March, 1091. witness's letter respecting security, dated 5th March, not correct, 1092. agreement with Close and Shields produced, 1093. led to believe that they could obtain contract, though not the lowest

tenderers; consideration mentioned in agreement not the real

Close signed and acted for himself and Shields jointly, 1095. negotiations leading to modification of agreement with Close, 1096. heard Chapleau's name mentioned as possible participant, 1099.

one, 1095.

CONTRACT No. 42.—Railway construction—continued.

TENDERING-continued

NICHOLSON, F .- continued.

original figures in tender B reduced at Shields' suggestion, 1099. witness lost all faith in Shields's influence or reliability, 1100. capacity in which Macdougall acted, 1101.
witness's firm never offered to sell or received any money, 1102.
telegraphic correspondence respecting Audrews, Jones & Co.'s refusal to proceed, 1298. telegraphic correspondence as to security, 1299.

CLOSE, P. G.

retired from the grocery business, 1160. in January, 1879, Morse asked witness to become surety, 1160. Morse wanted a surety known to Government, 1160. compensation, a commission on tender, 1161. reasons why witness's name strengthened tender, 1162. witness never undertook to secure any improper advantage for Morse, 1162.

second \$100,000 not deposited when contract awarded to Fraser, 1301.

made no effort to influence Government, 1163. knows nothing of any message sent by McCormick, 1165.

Shields negotiated all arrangements, 1165.

after Morse & Co. were out, arranged for interest in section B with Manning, 1166.

no arrangement with them till 6th March, 1166. had discussed matters with Shields before withdrawing from Andrews.

Jones & Co., 1167. final interview with Morse, 1168.

agreement with Shields stipulates witness shall not be surety for Morse, 1168.

reasons for this proviso, 1169.

no negotiation with any Minister in reference to contracts A. B. or C.

TUPPER, SIR CHARLES.

deliberations as to advisability of asking for tenders separately or together, 1261.

no step taken without consulting colleagues, 1262. tenders for C slightly in excess of A and B, 1262. would, however, have been considered if from a firm of sufficient strength, 1263.

Chief Engineer would not recommend Morse & Co. for whole work,

tenders for separate sections adopted, 1264. no intimation of Morse & Co.'s intended withdrawal, until their letter declining contract received, 1265, 1273. winter passing rendered disposal of tenders urgent, 1265.

Fleming reported loss of a week might mean a whole year, 1265.

passed to next tender, 1265.
time for Andrews, Jones & Co. to qualify fixed at three days, 1266.
short time justified by their letter of 6th February, 1266.

no knowledge of arrangement of Morse & Co. with Shields and Close, 1268.

Manning's probable association with Fraser known before contract awarded, 1268. practically Andrews, Jones & Co. had eight days to deposit, 1269.

approved of Andrews, Jones & Co. strengthening the firm through Goodwin, 1269 Thompson's desposit not available as against Andrews, Jones & Co..

1270. believes no one improperly benefitted by letting contract to Fraser & Co., 1271.

when negotiating as to deposits never suspected Andrews, Jones & Co. had retired, 1273.

no contingent promises to any tenderers, 1273. long period tenders adopted after careful consideration, 1273.

argument as to further delays in passing Andrews, Jones & Co., 1274.

MACDONALD, HON. J. no improper influence, 1293.

CONTRACT No. 42.—Railway construction—continued.

TENDERING-continued.

POPE, HON J H.

transfer from Fraser to Manning made during witness's temporary administration, 1302.

security not weakened thereby, 1303.

FLEMING, S.

Morse, Nicholson & Marpole lowest for sections 41 and 42 combined,

lowest for section 42, 1404.

lower than next tenderer by \$700,000, 1406.

witness recommended acceptance of other than lowest tenders, 1405. recommendation not adopted, 1405, 1408. advised against giving Morse & Co. the whole work, 1407.

satisfied they could not carry it on, 1408. did not believe they could do work on contract 42 for price in tender, 1409.

recommended Fraser, Grant & Co., 1409.

tenderers were allowed to take position according to their rights, 1410.

information to tenderers as to muskegs, 1413.

open question as to whether muskeg should be used in embankments, 1414.

knew Fraser and Pitblado and formed a high opinion of them as contractors, 1415. no recollection of any pressure in favour of his recommendation of them, 1415.

time of great importance, 1416.

ENGINEERING-

MANNING, A.

difficulties encountered, character of country, cost of moving supplies. 502.

fifteen hundred men employed, 503.

immense fills, 503.

witness's information derived from others he not having been on the ground, 503.

JENNINGS, W T.

as to economy made on the line in this section, 793.

TUPPER, SIR CHARLES.

estimates based with greater accuracy than heretofore, 1272. reduction effected by re-location, 1272.

SCHREIBER, C.

inspected this contract December, 1879, 1767.

general location settled, 1767. made slight deviations, 1767.

saved thereby \$600,000 to \$700,000, 1768.

found work progressing satisfactorily except as to time, 1768. thinks a total saving of \$1,500,000 has been made on contract 42,1768. of which \$650,000 is absolutely saved and \$850,000 the result of modified design, 1769.

See Engineering; Influencing Clerks.

CONTRACT No. 43.—Operating Pembina Branch:

TRUDEAU, T.

lease for operating Pembina Branch cancelled by Order-in-Council, 28th January, 1830, 89, 1087. no public competition, 1047.

first document recorded, an offer from Upper, 1047. reported on by Fleming 3rd March, 1879, 1047. authorized by Order-in-Council, 13th March, 1879, 1047. claim of contractors under consideration, 1048.

CONTRACTS Nos. 44 to 47.—Steel rails, &c.:

TRUDEAU, T.

competition invited by letter, 959. time for delivery 15th August, 1879, 959.
ordered through Reynolds as agent, 960.
method of inviting competition discussed between Engineer and Minister, 960.

CONTRACTS Nos. 44 to 47.—Steel Rails, &c.—continued. TUPPER, SIR CHARLES. course pursued as to purchase of rails, 1275. FLEMING, S. how contracts Nos. 44 to 46 came to be made, price £4,191. to £5 delivered in Montreal, 1419. report of 17th June, 1879, showing necessity for rails, 1419. Reynolds's arrangements satisfactory, 1419. CONTRACT No. 48.—Railway construction: TENDERING-TRUDBAU, T. let by public competition after advertisement, 83. tenders received to 1st August, 1879, 82. lowest tenderer, Hall, 83. Hall not prepared to deposit, himself doubtful about finding capital, 84. Hall retires; his deposit returned, 85. under Order-in-Council, 86. Ryan's tender \$46,190 more than Hall's, 85. tenders produced, 866. RYAN, J. contractor for first 100 miles west of Winnipeg, 476. Hall a lower tenderer than witness, 476. knew nothing of relative positions of tenders till contract was let, 477. no negotiations with other tenderers, 477. HAGGART, J., M. P. no interest with Ryan, or any other Government contractor, 1017. POPE, HON. J. H. tender awarded on witness's recommendation, 1302. Hall declined contract; prices too low, 1302. FLEMING, S Smellie reported against Hall, 1420. Hall's letter of withdrawal produced, 1420. Smellie, W. B. reasons for reporting against Hall, 1421. Hall did not express any dissatisfaction, 1422. ENGINEERING-TRUDEAU, T. some fault found as to progress made; reasons of delay under investigation, 87. RYAN, J. contract let August, 1879, 477. half to be finished in eight months, the whole by 19th August, 1880. 477. some delay in location, 478. bulk price \$600,000, without fencing and with half ballast, 478. change in the mode of building, 479. track located only from twenty to forty miles shead of track-layers, 479. ties laid on the prairie, and ballast put in instead of earth excavation, 479. process approved by Schreiber, 479. road-bed improved and cost not materially increased, 480. correspondence with Department relative to this change, 480. rate of progress five miles a week, 481. seven stations on line, 481. ROWAN, J. H. delays in locating were due to extreme wetness of season, 750. contractor claims that ballasting is more costly than grading, 750. witness prefers to offer no opinion thereon, 751. Drope's discharge authorized by Schreiber, 811. witness's relations with Murdoch, 822-823. MCEDOCH, W. in June, 1879, locating contract 48, 805. size of party twenty-two, 805. completed 1st September, 806 witness removed to take charge of contract 66, 806. as to Drope's inspection of ties, 808. certain instructions by Chief Engineer disapproved by witness, but notwithstanding carried out, 817.

censured by Chief Engineer for doing so, 818.

respecting his treatment by Rowan, 818.

CONTRACT No. 48.—Railway construction—continued.

ENGINEERING—continued.

DROPE, T.

complaint as to his discharge, 810.

FLEMING, S.

respecting delay in location of the line, 1423.
Ryan urged to proceed at once, 1423.
temporary right of way granted by city of Winnipeg, 1424.
thinks line was located faster than Ryan could proceed, 1425.
surveys not required for this section, country being flat, 1426.
rails laid on ground and then ballasted, 1426.

CONTRACT No. 49 .- Station buildings :

TRUDEAU, T.
submitted to public competition, and contract awarded to lowest
tender, 59.
cost limited to a maximum sum, in contract, 59.
completed to satisfaction of Department, 60.

CONTRACT No. 50.—Railway spikes:

TRUDEAU, T.
public competition; lowest tender accepted, 975.
delivery satisfactory, 976.

CONTRACT No. 51.—Fish-plates, bolts, &c:

TRUDEAU, T.
contract based on lowest tender after competition, 976.
articles supplied of Canadian manufacture, 976.
delivery satisfactory, 976.

CONTRACT No. 52.—Transportation of rails:

TRUDEAU, T.

competition invited by circular, 992.
Beatty had previously tendered, 992.
let to the lowest offer, 992.

FLEMING, S.
suggested inviting tenders by circular, 1427.
lowest tender accepted, 1427.

CONTRACTS Nos. 53 to 55.—Steel rails:

TRUDEAU, T.

public competition invited by advertisement, 997.

procured from Ic west available tenderers, 997.

Order-in-Council 13th June, 1879, authorizing purchase, passed on Chief Engineer's report, 997.

prices, £4 15s. to £5 5s., 998.

history of negotiations, 999.

REYNOLDS, T.

Fleming telegraphed in 1879, authorizing witness to receive tenders, 1003.

mode of inviting competition, 1004. lowest offer accepted, 1004.

TUPPER, SIR CHARLES

course pursued as to purchase of rails, 1275.
colleagues and Chief Engineer in accord, 1276.
all purchased from lowest available tenderers, 1277.
no benefit accrued to any Member of Parliament or other person than
contractors, 1277.

FLEMING, S.

pressed on Minister necessity for rails, 1428.
advertised in English papers, 1428.
tenders opened by Finance Minister in presence of Sir J. Rose and
witness, 1428.
50,000 tons ordered, of which 11,000 were for Intercolonial (Rivière du
Loup), 1429.
respecting Wallace's tender, 1430.

respecting warrace's tender, 1430.
lowest tenders invariably accepted, to full extent parties would furnish,
431.

CONTRACT No. 56.—Iron bridge: /

TRUDEAU, T. amount of contract, \$1,400, 996. let to lowest tenderer after competition, 996.

recommended by Fleming's report, 24th November, 1879. 996.

work not yet complete, 996.

FLEMING. S.

lowest tender accepted, 1432. satisfactorily erected, 1432.

CONTRACT No. 57.—Railway frogs, &c. :

TRUDEAU, T. no competition, patent having been adopted, 996. recommended 11th November, 1879, by Chief Engineer, 996. Order-in-Council confirming, 996. cost \$12,000, contract fulfilled, 997.

FLEMING, S.

frogs previously got from the Kingston Penitentiary, 1432. offered by the Truro company at a lower rate, 1432. a better article for a less price, 1433. no influence to prevent public competition, 1433.

CONTRACT No. 58.—Iron turn-tables:

tenders invited by circular, 1151. contract let to lowest tenderer, 1154. Fleming, S. tenders invited by circular, 1433. the lowest offer accepted, 1434. advertising would have been too expensive, 1434.

CONTRACT No. 59.—Railway ties:

RUTTAN, H. N. Whitehead, Ryan and witness contracted to deliver 100,000 ties in

the spring of 1880, 35. difficulties with Rowan as to culling, 35.

TRUDEAU, T.

contract has been fulfilled, 87.

RYAN, J.

witness a partner in contracting firm, 482.

FLEMING, S.

instructed Rowan to receive tenders; the lowest accepted, 1435.

CONTRACT No. 60.—Railway construction:

TENDERING=

MACDONALD, A. P.

lowest tenderer on sections A and C, 982.

contract transferred to Onderdonk for a consideration, 982. one contractor having the four sections would have an advantage of

15 or 20 per cent. over several, 983. McRAE, W.

interested with A. P. Macdonald and others, 1067. tenders made out at the Windsor Hotel, Montreal, 1068.

assigned to Onderdonk, 1068.

Onderdonk's view of the transaction, 1069. the concentration of work an advantage to contractor, 1069.

TRUDEAU, T.

public competition invited by advertisement, 1154. Fleming's report of 22nd November, 1879, produced. 1155.

witness narrates circumstances attending the opening of tenders. 1155.

refers to certain irregular tenders, 1155. Order-in-Council of 22nd December, 1879, authorizing transfer to Onderdonk, produced, 1158.
witness thinks it better that large works should be placed with one contractor if feasible, 1158.

CONTRACT No. 60.—Railway construction—continued.

TENDERING-continued.

TUPPER, SIR CHARLES.

reasons for inviting British Columbia tenders separately and subsequent amalgamation, 1287.

Onderdonk how and when introduced, 1289.

nature of the syndicate represented by D. O. Mills, 1289.

MILLS, D. O.

tenders of Onderdonk authorized by syndicate, 1297. no preconcerted arrangement with other tenderers, 1297. Government security improved by transfer, 1298.

Fleming, S.

on receiving report from Edmonton respecting Peace River route, an Order-in-Council was passed adopting Burrard Inlet and tenders for sections 60 to 63 invited, 1436.

D. McDonald & Co's tender, the lowest, was accepted, 1437.

CONSTRUCTION-

MILLS, D. O.

one of the syndicate, 1296. work progressing as demanded by contract, 1296. how syndicate became interested. 1297. economy the result of centralization, 1297. See Engineering.

CONTRACT No. 61.—Railway construction:

SMITH, J. N.

was interested with others in this tender, 952.
sold his third interest to Onderdonk for \$31,500, 953.
aware of no improper influences, 954.
expected to get all sections, 954.
better for all that they should be in the same hands, 935.
aving in labour, 955.
economy in machinery, 955.

opinion based on thirty years experience, 955. Macdougall interested only professionally, 955.

GOODWIN, J.

tendered for sections A, B, C and D, 1008. lowest tender on B, 1009. in company with Purcell, Ryan and others, 1009. contract awarded and sold to Onderdonk, 1009. witness's firm received \$100,000, 1009. delay in acknowledging Onderdonk, 1010. advantage of concentrating work in single management, 1011. no intention of selling out when tendering, 1209.

TRUDEAU, T.
public competition invited, 1204.
tenders opened 20th November, 1879, 1204.
lowest tender accepted, 1205.
transferred to Onderdonk, 10th February, 1880, 1205.

RYAN, H.

interested in section B with Purcell and others, 1235. no understanding with Onderdonk prior to award, 1235. Government refused to allow transfer before contract, 1236. a voluntary transfer, 1237. reasons for acquiescence, 1237. no improper information or advantage, 1238. one contractor more economical than many, 1238.

special necessity for centralization, 1238.
FLEMING, S.
contract based on lowest tender, 1438.

See Engineering. CONTRACT No. 62.—Railway construction:

TRUDEAU, T.

contract awarded to lowest regular tenderer, 1207.
contracts 60 to 63 inclusive, transferred to a syndicate by Order-in-Council, 1207.

FLEMING, S.

given to lowest tenderer, 1439. took no part in transfer to Onderdonk, 1439. See Engineering.

CONTRACT No. 63.—Railway construction:

KAVANAGH, T.

tendered for section D, 838.

transferred to Onderdonk, 839.

does not remember anything about it, 839. turther as to what he does not remember, 840.

KAVANAGH, J.

tendered for section D, 1018.

no knowledge how figures were made up, 1019.

sold to Onderdonk, 1020.

witness sole negotiator with Onderdonk, 1020.

no experience in contracting, 1021.

TRUDEAU, T.

awarded to Kavanagh the lowest tenderer, 1208.

respecting extension of time approved by Order-in-Council, 1208.

TUPPER, SIR CHARLES.

why time granted to Kavanagh, 1290.

distinction between this matter and Andrews, Jones & Co., 1291. Department sustained in this extension by Order-in-Council, 1292. FLEMING, S.

contract let to the lowest of eleven tenderers, 1439.

took no part in transfer, 1439. results of the transfer favourable to the public, 1440.

better for the public that one strong firm should have the whole work.

work let at very low prices, 1441.

See Engineering.

CONTRACT No. 64.—Bridge over Red River:

RYAN, J.

sum involved, \$7,350, 481.

duly completed and paid for, 481. TRUDEAU, T.

public competition invited, 1209. contract let to lowest tenderer, 1210.

work completed, 1210.

FLEMING, S.

how the work was undertaken, 1441. contract based on lowest tender, 1412.

CONTRACT No. 65 .- First-class passenger cars:

TRUDRAU, T.

public competition invited, 1210. lowest tender accepted, 1210.

FLEMING, S

contract given to lowest tenderer, 1442.

CONTRACT No. 66.—Railway construction:

TENDERING-

report of tenders produced, 87.

contract let to lowest tenderer, 87.

McTavish, G. L., 486. contract signed in absence of witness, 487. to be completed 31st December, 1881, 487.

the non-completion of the first 100 miles a serious drawback, 488.

no claim on Government on that account, 488.

CHAPLEAU, S. E. St. O.

never assisted Bowie, 860.

Bowie, A.

tendered with others for this contract, 1144.

difference of opinion as to prices, 1145.

general conversations with Chapleau, 1146.

prices of Geo. Bowie's tender diminished about \$9,000 or \$10,000, 1147. Nicholson & Marpole's tender about \$10,000 higher than witness, 1147.

effect of changes to make tender \$289 lower than Marpole's, 1148. witness's information to Geo. McTavish, 1148. witness sold out to Bowie & McTavish, 1148.

never alleged that he had disbursed sums for information, 1149. as to security put up, 1149.

CONTRACT No. 66.—Railway construction—continued.

TENDERING--continued.

TRUDEAU, T.

Engineer's report on tenders produced, 1212. awarded to Bowie & Co.; Geo. McTavish added to firm under Orderin-Council, 22nd May, 1880, 1212.

based on lowest tender, 1442. location not approved by witness; gives his reasons, 1443.

ENGINEERING-

MURDOCH, W.

in charge of location, 814. party: twenty-one, 814. ready for contractors 9th July, 815. found favourable line, 815. See Engineering.

CONTRACT No. 67.—Box and platform cars:

TRUDEAU, T.

contractors were lowest tenderers for platform cars, 1211.
Simon Peters \$5 lower for box cars, but could not furnish quantity required and withdrew, 1211. public competition invited, 1211.

FLEMING, S.

confirms Trudeau's evidence, 1444.

CONTRACT No. 68.—Postal and baggage cars:

TRUDEAU, T.

public competition invited, 1211.

FLEMING, S.

contract given to lowest tenderer, 1414.

CONTRACT No. 69.—Transportation of rails:

TRUDEAU, T.

not a formal contract, 1213.

authorized by Order-in-Council on Chief Engineer's report, 1213. FLEMING, S.

explanation why competition was not invited, 1445. the arrangement a desirable one, 1445.

CONTRACT No. 70.—Transportation of rails:

TRUDEAU, T.
public competition invited, 1212.
let to lowest tenderer, Henry Beatty, 1212. prices compared with contract No. 34, 1213.

FLEMING, S.

witness had nothing to do with this, 1445.

CONTRACT No. 71.—Iron bridge:

TRUDBAU, T.

let to lowest tenderer, 1214.

FLEMING, S.

confirms Trudeau's evidence, 1445.

CONTRACTS Nos. 72 to 76.—

TRUDEAU, T.

advertised and let since date of Commission, 1214.

CONTRACT No. 77.—Wire fencing:

TRUDEAU. T.

report of tenders produced, 1214.

CONTRACTS, SYSTEM OF LETTING:

See System of Letting Contracts.

Cooper, Fairman & Co.:

See Contracts Nos. 8, 11, 17, 20, 21, 29, 30, 32, 35; Steel Rails.

COOPER, JAMES:

purchase of rails, tendering, 915.

contract No. 8, 915.

No. 11, 918. No. 15, Fraser & Grant-Whitehead partnership, 924. relations of C. Mackenzie with Cooper, Fairman & Co., 919. alleged improper influence, 925.

Cox & Green:

See Contracts Nor. 8, 9 and 10.

CROSSEN, JAMES:

See Contract No. 65.

CROSSING RED RIVER:

See Red River Crossing.

CROSS LAKE:

See Contracts Nos. 14, 15; Engineering.

CURRIE. D. S.:

Nixon's paymaster-and-purveyorship, 576, 579.

DAVIDSON, JOSEPH:

contract No. 4, 1125.

DEPARTMENT OF RAILWAYS AND CANALS:

TRUDEAU, T.

Deputy Minister, 1. connection with Canadian Pacific Railway since commencement, 1.

next in control to Minister, 1.

Pacific staff special and distinct as to engineering, not as to accounting, 1.

accountant : James Bain, 2.

accounts by double entry, 2. no periodical report by accountant to Deputy,

Fleming financially responsible from inception till 1875, 2.

subsequently system changed, 2. Fleming's paymasters: Wm. Wallace, Geo. Watt, and subsequently

Radford, 2. Watt's accounts were audited by T. Taylor, and reported satisfac-

tory, except as to vouchers, all orders should proceed from Minister, 3.

generally given verbally, and noted, 3. copies of Orders-in-Council affecting railway are sent to the Department and recorded, 3.

preliminary explorations discussed by Minister and Fleming, 3.

Chief Engineer appointed 5th May, 1871, 3.

engineering staff appointed by Minister, 4.
Paimer in charge of accounts from 1873 to 1875, 12.

tenders usually referred to Engineer for a report, 38.

verbal explanations not allowed to modify tender, unless the document susceptible of such explanation in itself, 38.

Minister saw all reports of Chief Engineer, 38.

where Engineer declines to recommend a course, it is adopted without his responsibility, 38.

how far change in tender affects eligibility of tender, 42.

not the practice of the Department to initial alterations in the tenders, 74.

corrects previous evidence as to decisions of Minister being invariably recorded, 1817.

instances to the contrary, 1817.

FLEMING, S.

remarks on appointment of officers, 1685. a private company could accomplish work more efficiently, 1686. discontinuance of witness's connection with the railway and correspondence relating thereto, 1686-1700.

DEPARTMENT OF RAILWAYS AND CANALS-continued.

BRAUN, F.

Secretary of the Department, 1753.
always acted on instructions, 1753.

communicated by Minister or Deputy, 1753.

register of letters received and sent, 1754. practice in respect of receiving, opening and custoly of tenders, 1756-1759, 1765.

Scheribre, C. Chief Engineer since 20th May, 1880, 1767.

Superintending Engineer since 17th September, 1879, 1767. remembers no record of any estimate of the cost of a section before

offering for tender, 1780. of engineering accounts, 1781. See Appointments.

DEPOSITIONS:

See Gamsby; Moberly; Nixon; Schreiber.

DICKSON, RICHARD:

See Contract No. 49.

DOMINION BOLT Co.:

See Contract No. 51.

Drope, Thomas:

contract No. 48, 809.

DRUMMOND, HENBY M.:

Nixon's paymaster-and-purveyorship, 482.

DWIGHT, H. P.:

See Contract No. 1.

EAGLE RIVER WESTWARD:

See Contract No. 42.

EBBW VALE Co.:

See Contracts Nos. 7, 44-47; Steel Ruils.

Engineering:

SURVEYS-

GENERAL.

FLENING, S.

appointment, responsibilities and instructions (1871), 1305. senior officer: J. H. Rowan, 1306. hesitated to undertake work, 1307.

principles for controlling work, 1307. necessity for knowledge of the country, 1307.
instrumental surveys advisable under the circumstances, 1307.
opinion of Capt. Palliser referred to, 1308.
exploratory rather than instrumental would have been adopted but
for time pressure, 1308.

would have saved large sums of money, 1308. both systems discussed, 1309 instrumental sometimes indispensable, 1310. no recollection of Rowan's report (1871), 1311. three years' examinations before first contract, 1311.

delay partly due to change of Government, 1312. witness responsible for expenditure, 1312. method of supervision and financial administration, 1312.

work would have cost much less under private company, 1314. outline of history of surveys, 1637.

difficulties on account of roughness of country, interminable forests, severity of winters, and short time allowed for completion, 1638; three grand divisions: eastern, central and western, 1638.

no faith in preliminary explorations, 1639.

SURVEYS-continued.

GENERAL -continued.

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FLEMING, S.—continued,
       instrumental surveys decided on, 1639.
       advantages of a traversed line, 1639.
       instructions to engineers, 1640. eleven sections between Ottawa and Red River, 1641.
       letter to Minister (1871) as to winter surveys, 1641.
       progress of work described in report of 1872, 1642.
       point selected for beginning easterly section, 1643. results of surveys in woodland region, 1644.
       report of 1874, page 27, 1644.

operations in woodland region described in report of 1877, on page
           46, 1645.
       system adopted due to witness's belief that the railway was to be
           commenced within two years, 1646.
       otherwise would have made explorations first, 1646, 1649.
       practicable line from end to end required before a blow was struck,
       probable expense of exploring parties, 1652.
       two engineers, two axe men and men for transport sufficient for an
           exploration, 1653.
       refers to Murdoch, Armstrong and Austin's exploratory surveys, expense of which could be obtained from Department, 1653.
       cost of instrumental as against exploratory not considered, 1658.
            the latter impracticable, 1658.
            sufficiently capable men for the latter not available, 1658.
            exploratory not sufficient in any case, 1660.
       instrumental between Lake Superior and Ottawa essential; reason
       why, 1660. exploration parties used on branch lines from an instrumental base,
       impossible for a non-professional man to ascertain feasibility of rail-
            way, 1662.
       breadth of country examined, 1663.
       course followed in making instrumental survey, 1663.
       cost of surveys a secondary consideration, 1664.
up to 1877, 10,000 miles of track surveys between Ottawa and Red
River, 1664.
       attention first drawn to Howse and Yellow Head Passes by writings
            of Capt. Palliser and others, 1666.
       appointments on political grounds, 1666.
       directions to district engineer, 1667.
       much left to men's discretion, 1668.
       instruction to Moberly as to Howse Pass, 1668. comparison of Yellow Head and Howse Passes, 1670.
       abandonment of Howse Pass, 1670.
       reasons in favour of Yellow Head Pass, 1671.
       difficult approach to Howse Pass, 1671
       supplies: directions to utilize Moberly's, 1674.
            exorbitant purchases by Moberly, 1678.
            lost, 1678.
            unnecessary articles purchased, 1678.
            Moberly's explanation as to, 1681.
       telegrams to and from Trutch respecting Moberly's change of base,
            1674.
       Yellow Head Pass decided upon without an instrumental survey,
       enormous sums expended on surveys in British Columbia, 1676.
       trans-continental journey in 1872, 1678.
       dissatisfaction with Moberly, 1679.
            instructs him as to Jasper Valley survey, 1679.
            his services discontinued, 1682.
       correspondence between Fleming and Smith in 1872 produced, 1683.
       in England nineteen months in three years, 1683.
SMITH, M.
       arrived in British Columbia (1872), 1503.
remained in charge until 1876, 1504.
next superior officer: Cambie, 1505.
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made explorations from Winnipeg westward (1877), 1505. examined route critically from Edmonton, 1506.

SURVEYS-continued.

GENERAL-continued

SMITH, M .- continued. visited contracts 13, 14, 15 and 25 under construction (1878), 1507. sections 41 and 42 under survey (1878), 1507. wanted to resume work in British Columbia (1879), 1507. informed that little would be done there, 1507. proceeded to Manitoba, 1508.
line south of Lake Manitoba explored, 1508. same work in 1880, 1509. each season's work in British Columbia arranged by Chief Engineer, 1509. manner_of surveys, Fleming responsible for, 1510. Howse Pass abandoned before he went out, 1510. examined Watt's accounts in 1872, 1511. only two parties engaged in British Columbia in 1873, 1512. under Jarvis and Gambsy, 1512. object to obtain route through Cascade range, 1513. instructions for season 1872-73, 1553. impossibility of reducing expenses on account of system already established, 1554. exploring parties would have been sufficient, 1554. stated so in letter of 14th June, 1872, 1554. refers to the Palliser expedition, 1554. Palliser failed to find Yellow Head Pass his field being restricted by instructions, 1555. thinks Fleming must have been assured of the practicability of Howse Pass, 1557. time pressure in a measure justified instrumental survey, 1557. would have started smaller parties, 1558. two engineers and Indians a sufficient exploratory staff, 1560. comparative merits of passes should have been ascertained before directing instrumental survey, 1561. respecting McLennan's parties, 1562. ninety animals lost, 1562.

Mahood's party badly managed, 1562.

fire in C.P.R. buildings destroyed all the work of 1872, 1563. left Ottawa 15th May, 1874, with three parties, 1564. Bute Inlet then a probable terminus, 1564. Horetzky found a good pass through Kitimat Valley to the Skeena, 1565. Cooper's report of no value, 1566. surveys of 1875 also directed to Bute Inlet, 1567. survey on the Homathco, 1568. re-survey from Yellow Head Pass to Fort George, 1568. thinks British Columbia surveys 1873-1875 judicious and economical, 1568. explorations finished in 1874, 1569. spring of 1876, Chief Engineer being absent, was made acting Chief Engineer, 1569. Cambie sent out in his place to British Columbia, 1569. reasons why Howse Pass abandoned, 1582. no pass through Selkirk range, 1582. Moberly's instructions to retire from Howse Pass direct from Fleming, 1583 Chief Engineer's instructions respecting Athabaska Pass a mistake, 1584. engineers should not be trammelled by detailed instructions, 1584. further as to French River survey in 1876, 1585. between Nipissing and Nipigon the initial steps should have been bare explorations, 1587. first letter after appointment advocated exploratory surveys, 1597. examined country west of Winnipeg, 1591. made trial location south of Lake Manitoba, 1591. crossing good on Little Saskatchewan, 1591. not on Assineboine, 1591. examined country south of Saskatchewan, 1592. thence to Carleton, 1592.

wheat belt extends into forest country, 1592. proceeded via Edmonton and Yellow Head Pass to Kamloops, 1592.

thence to New Westminster, 1593.

SURVEYS-continued.

GENERAL-continued.

SMITH, M .- continued. examined progress of British Columbia surveys, 1593. returned by way of San Francisco, 1593. visited section 14, 1593. returned to Ottawa in November, 1593. attention not called to Cross Lake, 1593. wrote appendix D to report of 1878, 1594. map suppressed, 1594. Fleming telegraphed for to write report, 1594. recommended Pine River Pass to Bute Inlet, 1594. Minister differed, 1595. ignored from spring of 1878. 1595. no instructions left in spring of 1878 when Fleming went to England. 1596 no consultation, 1596. thought Yellow Head Pass altogether wrong, 1596. reference to Pine River Pass explorations, 1598. favourable report by Hunter, 1598. report as to character of country, 1599. questions other than engineering weighed with him in recommending change of route, 1599-1602 extent of information gained by surveys, 1602. bringing parties to Ottawa an unnecessary expense, 1602. causing loss of time in spring, 1603. private company would have proceeded more rapidly, 1603. in charge of two parties in spring of 1879, 1611. locating 200 miles west Winnipeg, 1612. description of lines, 1612. kept ahead of contractors, 1612. first-class line located, 1613.

MACKENZIE, HON. A.

took charge in 1873, 1784. Government not in possession of opinions from engineers justifying decided action, 1784.

route from Upper Thompson to Big Bend discovered in 1874 to be impracticable, 1785.

Fleming the sole director of surveys, 1785. view as to testimony regarding Government policy, 1785. Fleming not directed to change method of survey, 1785.

locations made up to the end of 1874, 1786.

report in favour of Stone Fort as crossing, 1613. addressed to Chief Engineer, 1614. did not appear in print, 1614.

general direction pretty well decided as far as Yellow Head Pass when telegraph tenders were invited, 1786. policy of Government to obtain shortest line between Thunder Bay

and Rat Portage, 1805.
decision to construct immediately, 1805.
driginal line from Nipigon via Sturgeon River exceedingly rough,

thinks quantities were not ascertained before contract was let, 1805. understands quantities calculated from actual data, so engineers reported, 1806. selection of Selkirk left to engineer, 1807.

EXPLORATORY.

RUTTAN, H. N.

civil engineer and contractor, 21. assistant to T J. Thompson at Pic River, 21. party: twelve, 21. from Red Rock to South Bay of Nipigon (instrumental), 22. four months in the field, 22. supplies: Thompson responsible for, 22. at Ottawa after field work, 22. from Hay Lakes to Root River (1875), 23. party: tweaty-five to thirty-five, 23.

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SURVEYS-continued.
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EXPLORATORY-continued.
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CARRE, H.
       from height of land to English River (1871). 121,
             party: thirty-three, 122.
surveys in charge of Rowan, 122.
              nature of work, country unknown, 123.
             latitude taken from stars, 123.
              supplies: difficulty about, 121.
                   got from Thunder Bay, 122.
                   started with sufficient for a month, 123.
                  ran out a week after reaching starting point, 123. considered Rowan to blame for inadequacy, 123.
             work stopped in consequence, 125.
returned to Thunder Bay, 15th October, 125.
time lost from middle of October to end of December, 126.
                   men on pay, 126.
                   money value lost $3,840 exclusive of provisions, 127.
        attacked with scurvy and had to return to Thunder Bay, 127.
       from Red Rock to north end of Black Sturgeon Lake (1873), 127.
              party: thirty-three, 127.
              supplies: ascertained before leaving that they were adequate, 128.
              finished in October, 1873, 128.
       in Ottawa until the spring, 128.
       from North-East Bay to Sturgeon Falls (1875), 131.
             returned to Ottawa March, 1875, 131.
             scheduled out quantities which were enormous, 131.
             asked to find a better route, 131.
returned for that purpose, June, 1875, 131.
survey exploratory and location combined, 131.
line finished in December, 1875, 131.
             party: about fifty, 131.
ran Dalles line at same time, 132.
              returned to Ottawa and remained until May or June, 1876, 132.
Jarvis, E. W.
       employed from 1871 to 1875. 274. from White Fish Bay to Red River (1871), 274.
              party: thirty-two, 275.
             ordered to remain out during winter, 276.
supplies: base of, Thunder Bay, 275.
four hundred miles from commencement of work, 275.
                   sent Gray to Winnipeg to purchase, 275.
                   those sent via Thunder Bay nearly consumed by supply
             party, 276
reached Red River 30th March, 1872, 277
              struck river about ten miles north of Winnipeg, 277.
              cross-sectioned portions of the line, 278.
              returned to Ottawa and made plans, 278.
              plans and data burnt in fire of railway offices, 278.
                   could not have been used to ascertain quantities, 278.
                  line would have escaped Julius Muskeg, going south of it, 279.
       from Eagle Lake to Sturgeon Lake (1872), 280.
              time occupied: June to October, 280.
              supplies: manner of procuring, 280.
                   difficulty in transporting, 281.
                  six months outfit from $10,000 to $12,000, 282.
       in Ottawa during winter, 283.
from Eagle Lake to Rat Portage (1873), 283.
              party: twenty, 283.
                   cost of, much less, 284.
              supplies: arrangements with regard to, 283.
                   took nothing but pemmican and flour, 284.
              laid down centre line and cross-sectioned at certain points, 284.
              data sent to Ottawa, 284
       in June, 1873, proceeded to British Columbia, 285. from Cache Creek south-westerly to the Cascade Range, via Lillocet
                   to Seton Lake, then north-westerly from Cache Creek to the
                   Thompson vid Bonaparte Valley, 285.
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party: twenty-four and mule train, pack train and thirty mules,

animals already the property of the Government, 285.

SURVEYS-continued.

EXPLORATORY—continued.

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JARVIS, E. W .- continued.
       from Bridge Creek, Fraser River, to Horse Fly Lakes, 287.
party: three, 287.
       thinks three men, with engineer in charge, and half a dozen animals sufficient for an exploration in British Columbia, 287.
       returned to Ottawa winter of 1873-74, 227. returned to British Columbia with three assistants in 1874, 288.
       from Tête Jaune Cache to Fraser River, 288.
              party: thirty-three and one hundred and twenty animals, 288.
             supplies taken with them, 288.
engaged from June to October, 288.
       none of witness's surveys in British Columbia on located line, 289.
       north of Tête Jaune Cache and Smoky River Pass, 289.
             organizes party, 289. nearly starved to death, 2 9.
              reached Edmonton end of March, 1875, 290.
                  Winnipeg, 23rd May, 290.
       declined further Government service, 290.
       cost of exploring in British Columbia and Lake Superior about the
            same per mile, prairie region cheaper, 293.
FURREST. H. F.
       assistant leveller on Mahood's party R, 345.
       from North Thompson towards Chilcotin, 345.
              description of, 346.
              commenced operations in May, 1872, 346.
             party: thirty, and sixteen mules and eighteen pack horses, 346. supplies: R. McLellan responsible for, 347.
              engaged until November, 347.
              on plans in Ottawa during winter, 349. probably forty miles covered by surveys, 347.
              line practicable but not favourable, 348.
       joined Carre's party. 1873, 348.
from Nipigon River to Sturgeon Lake, 348.
              Supply: system of, 349.
engaged on plans in Ottawa during winter, 319.
       from Winnipeg to Selkirk, 354.
              party: about fifteen, 354.
              finished September, 1875, 351
       present located line not on these surveys, 354.
MOBERLY, W.
     . in charge of parties S and T, British Columbia, 400.
              consisted of twenty-two to twenty-four each, exclusive of
                   packers, 401.
              party S: eighty or ninety animals in train, 401.
                   afterwards bought more, 401.
reached Wild Horse Creek, September, 1871, 403.
                   to go to Howse Pass, 404.
                   expense of wintering $57,000, 407.
                   instructed in 1872 to abandon Howse Pass and proceed to Yellow Head Pass, 410.
                   discharged in October or November, 415.
                   engaged during 1872 in cutting trail through Athabaska
Pass to Yellow Head Pass, 415.
according to telegraphic instructions from Chief
                             Engineer, 416.
                        remonstrated and recommended a different course, 417. endorsed by Lieut.-Governor Trutch, 417.
                                  an able Engineer, 418.
                   loss in consequence (estimated) $60,000, 418. and McCord trail party (1872-73), 419.
                        consisted with party 8 of forty or forty-five men and
                             two hundred and fifty animals, 419.
                        reasons for so many animals, 420.
                   from Kettle River to Edmonton, 420.
                        found Howse Pass grades heavier than expected, 422.
                   contradictory instructions, 423.
concluded that Yellow Head Pass was preferable to Howse
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Pass in 1873, 424. wintered in 1872 near Jasper House, 424.

SURVEYS-continued.

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EXPLORATORY—continued.
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MOBERLY, W .- continued.
             party S-continued.
Tête Jaune Cache surveyed in 1873, 424.
                  easterly to Root River, 424.
                  completed about August, 424.
then westerly to Moose Lake, 424.
then carefully located line to Tête Jaune Cache, 424.
                  returned to Victoria, 424.
             party T: at Eagle Pass, 108.
                  consisted of twenty-two, 408.
                  no animals or packers, 408.
trial location from Eagle Pass to Big Eddy, 408.
                       engaged four months, 409.
                       found good railway route, 410.
                  delay of North Thompson trail party by action of, 413.
                  spent six weeks hunting for trail party, 413.
                       loss $80 per day, 413.
                  a year lost in consequence, 414.
reached Moose Lake September 18th, 414.
             misconduct of party caused loss of $50,000 to $60,000, 415. supplies: arrangements for, 402.
                  purchased by witness, 408. depot in Eagle Pass, 408.
                   difficulty in transporting, 409.
                  cost 80 cts. per lb., 409.
left half way on survey in charge of one Indian, 409.
                        has never seen them since, 410.
                        attempt to recover, 410.
                        does not know the result, 410.
                        loss about $7,000, 410.
                   misadventure as to, 411.
                   transferred to Hudson Bay Co. at Lake St. Anne, 424.
              animals transferred to Government Agent at Kamloops, 425.
        returned to Ottawa, 425.
              remained a year and a-half, 425.
              accounts overhauled, 425.
        leaves Government service, 426.
        reported Athabaska Pass not feasible, 427.
              afterwards MacLeod failed to find a pass, 427.
        feasibility of Howse Pass discoverable by an engineer passing over it, 429.
        instructions from Fleming verbal, 429.
              elaborated and printed, 429.
        smaller party might have answered, 429.
        as to unnecessarily heavy survey parties in British Columbia, 431.
        chain man on party K, 488.
no evidence of any moment, 488.
 KIRKPATRICK, W. W.
        connected with Pacific Railway since 1871, 519.
         transit man under Armstrong, 519.
        from Black River to Long Lake, 519.
               party: forty-five, 519
               supplies: difficulties as to, 520.
                    progress retarded thereby, 521.
                   due to inefficient commissariat, 521.
         track survey around end of Long Lake, 522.
               party: ten men, 522.
completed early in March, 522.
        returned to Ottawa, 523, 525.
left for Ninigon 1st July, 1872, 523.
from north-west of Lake Nipigon to Big Sturgeon Lake, 523.
               party: thirty-five (L), 523.
               supplies: difficulties as to, 524.
                    work less effective in consequence, 524.
               preliminary with transit and level, 524.
               work finished Christmas morning, 524.
         returned to Ottawa, 525.
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SURVEYS-continued.
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EXPLORATORY - continue 1.
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KIRKPATRICK, W. W .- continued.
       from Lake Helen to Long Lake (spring, 1873), 525.
             preliminary, 525.
             party: thirty-five, 525.
             commissariat arrangements satisfactory, 525.
       returned to Ottawa in winter, 525, 537.
       on Fire Steel River (spring, 1874), 536.
engaged six weeks, 537.
from Fort Frances to Sand Island River, then to Orangoutang Lake,
then Wabigoon River to Wabigoon Lake, through Manitou
                  and back to Fort Frances (1874), 537.
             party: fourteen, 537.
             distance: three to four hundred miles, 537.
       from Wabigoon east and west (1875), 537.
             party: thirty to forty, 537. finished in October, 538.
ROWAN, J. H.
       appointed to Pacific Railway May, 1871, 669.
       engaged until June collecting information, 669. sketched outline of plan for surveys, 669.
       in June left Ottawa with thirteen parties, 669.
             each party covered seventy-five miles, 670.
             plan of work described, 670.
             reasons why instrumental survey was adopted, 671.
             necessity for large parties, 672.
             difficulties of a bare exploration, 675.
             season's work described, 675
             no line found north of Lake Superior, 676.
       second season's (1872) operations, 677.
from Mattawa vid Nipissing to Sturgeon River Valley, 677.
                  new line tried for, 677.
             around Nipigon, thence westerly to Red River, 677.
                  thorough exploration, 677.
                  instrumental, 677.
       third season (1873) further operations, 677.
             between Red River and Nipissing, 677.
       parties engaged: eight, 677. fourth season (1874), 679.
             from Rat Portage to Red River, 679.
             re-survey, 679.
also north of Lake Manitoba, 679
             also north of present contracts 14 and 15, 679.
                  found impracticable, 680.
             second survey of section 15 by Carre, 680.
Jennings, W. T.
       in charge of party in British Columbia (1875), 753.
             from Chilanco River to Blackwater River, 754.
                  trial location, 754.
                  party: seventeen, 753.
                        increased to twenty-five in Victoria, 754.
                  engaged from June to October, 754.
                  one hundred miles, 754.
                  supplies: as to, 754.
                  feasible location for mountainous country, 755.
             in Victoria from November until January, 755.
       returned to Ottawa, 755.
next season's (1876) operations, 755.
              from Dean Inlet through Salmon River Valley, 755.
                  party: double, sixty, 766 location and trial line simultaneously, 756.
                  fifty-two miles, 756.
                   work finished in September, 756.
       returned to Ottawa, 757. in 1877 a portion of the Fraser River route, 757.
              from Boston Bar to mouth of the Harrison, 757.
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distance: seventy miles, 757. staff engaged in Ottawa, 757. axe men in Victoria, 757.

SURVEYS-continued.

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EXPLORATORY-continueJ.
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JENNINGS, W. T .- continued.
        party: thirty-five, 757.
discharged September, 1877, 758.
favourable line, 757.
        examined Puget's Sound Harbour, 758.
        returned to Ottawa, 758.
        from Emory Bar to Boston Bar (1878), 758.
        revised survey, 758.
        ran trial line south of Kamloops Lake, 758.
        partv: twenty-two, 758.
MURDOCH, W.
       in charge of instrumental survey (1871), 795.
             from Sault Ste. Marie 100 miles easterly, 795.
             then French River crossing, 795.
              party: thirty, 795.
              supplies; purchase and distribution of. 795.
              when first 100 miles finished all but nine of party sent home
                   796.
       returned to Ottawa February, 1872, 796.
from Winnipeg River via English River to Nipigon, 797.
despatched to find feasibility of a line, 797.
              found route impossible, 797.
              party: nine, 797.
              found an alternative line, 797.
as far as Eagle Lake, 798.
                   since been mainly adopted, 798.
              reports and plans destroyed by fire at Ottawa, 798.
        relieved Rowan from May, 798.
he going to Ottawa, 798.
              jurisdiction extended from Lake Nipigon westerly, 799.
        from Prince Arthur's Landing to White Fish Lake (1873), 799.
              party: thirty, 799.
instrumental and in winter, 799.
               plans destroyed by fire, 799.
        from Kaministiquia to Lake Shebandowan (1874), 800.
              two parties, 800.
not completed that season, 800.
               superseded by Hazlewood, 800.
               discharged by Mackenzie, 800.
                    demanded an investigation but was refused, 800.
               examined subsequently before Parliamentary Committee, 801.
         causes of excessive cost from White Fish Lake to Black Sturgeon
                    Lake in 1873, 811.
         thinks $146 a mile for preliminary not excessive in wet land, 814.
 HOBETZKY, C.
        from Fort Garry to Rocky Mountains, 1240.
Hay Lakes to Edmonton, 1240.
left Winnipeg 4th August, 1871, 1240.
         south to Howse Pass, 1240.
from Edmonton to Jasper House, 1240.
         with Chief Engineer's party in 1872, 1240.
         took usual cart road to Edmonton, 1240.
               not railway line, 1240.
               forty miles a day from Fort Garry to Edmonton, 1210.
         reconnaissance vid Peace River, 1241.
               impracticable, 1241.
         suggested Pine River Pass, 1241.
         allusion to Peace River Pass suppressed by Fleming, 1241.
               to Pine River denounced, 1242.
         altitude of passes in Carcade range, 1243. expedition by Gamsby to Kitlope Valley (1876), 1243.
         respecting Kitimat Valley, 1244-1249.
          Lake Tochquonyala, 1249
          exploration near François Lake (1875), 1251.
          Skeena and Peace Rivers (1879), 1251.
          views as to Cambie's exploration, 1251.
          disappointment as to salary, 1253.
views endorsed by Hunter, Cambie and MacLeod as to Pine River
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SURVEYS-continued.

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EXPLORATORY—continued.
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HORETZKY, C .- continue i.
                  advocated by M. Smith, 1255.
          possible terminus at one time at Bute Inlet, via Pine Pass, 1255.
         possible terminus at one time at Sute Iniet, via Pine Pass, 1255. describes Pine Pass to sea-board, 1256. rough country between Fort Assineboine and Lesser Slave Lake, 1257. reasons for preferring northern line, 1257. climate probably worse than Kamloops, 1259. approach to Peace River Pass difficult, 1702. availability of Pine River Pass probable, 1702. photographed salient features of Bute Iniet (1875), 1702. trop Vermillion River to Lake Warehogen (1876), 1703.
         from Vermillion River to Lake Wenebegon (1876), 1703.
from Pic River to French River (1877), 1703.
          examined country between the Skeena and Peace River under Cambie
                  (1879), 1704.
         alleged unpaid claim, 1706.
         cost of Peace River examination, 1706.
         manner of exploration, 1707.
         route vià Pine River, 1710.
         extravagance and waste of stores, 1712.
         explorations vs. instrumental, 1715
         system of taking levels by Major Williamson, 1716.
         instruments carried by witness, 1717.
with Moberly between Winnipeg and Rocky Mountains (1871), 1718.
no scientific training before this (1871), 1718.
         further as to Peace and Pine River Passes, 1719.
          expedition by Gamsby to Kitlope Valley, 1721.
                 missed the country explored by witness, 1722—1726. turther as to, 1726—1730. cost of, 1732, 1749.
         did not cover ground surveyed by witness, 1750—1752. suppressed report (1874). passage from, 1721.
         photographed on the Homathco, 1730.
McLennan, R.
         district engineer in Yellow Head Pass region (1871), 1513.
                 began at Kamloops, 1514.
party: thirty five, 1514.
                        all labourers except five, 1514.
sent back most at Cranberry Lake, 1518.
with re luced party proceeded to Yellow Head Pass, 1518.
                        about six, 1520.
fourteen left at Cranberry Lake to examine country, 1520.
                 thinks a large party was necessary, 1520. examined pass in eight days, 1521.
                 returned to Cranberry Lake 1st November, 1522.
to Kamloops about 20th November, 1522.
         proceeded to Ottawa to report, 1522.
         in spring (1872) in the Chilcotin Plains, 1523.
                 party: thirty, and twenty-five animals, 1524.
instrumental examination, 1526.
thinks explorations should have been made first, 1527.
                        reasons for this opinion, 1527.
                 further in reference to Albreda Lake and Canoe River, 1533
neither Green nor Mahood found a practicable country, 1533.
                 during first season, (1871), in B.C., eastern slope of Yellow
Head Pass not examined, 1553.
McNicol, E.
         on Bute Inlet survey under Cambie (1875), 1732.
expedition to Kitlope Valley under Gamsby (1876), 1733.
did not take latitude at Tochquonyala Lake, 1739.
                  had Horetzky's tracing but did not take it from camp, 1739.
                  one lake mistaken for another, 1743.
                  thought that the lake found at an elevation of fifteen feet was
                        the same as Horetzky discovered at 1,100 feet, 1748.
                  complete antagonism between the two sketches, 1748.
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LOCATION.

RUTTAN, H. N.

instructed to make location survey at Edmonton (1876), 23. party idle under pay for some weeks, 23.

SURVEYS-continued,

LOCATION-continued.

RUTTAN, H. N.—continued.

supplies: Nixon responsible, 24.

prices not under engineer's control, 24.

party engaged May, 1875, to December, 1876; making plans at Ottawa till May, 1877, 24.

CARRE, H.

in charge of location on contracts Nos. 14 and 15, June, 1874, 129.

party: over forty men, 129 so engaged till January, 1875, 129.

witness afterwards took soundings on Red River while party ran line from Shoal Lake to Selkirk, 129.

plan and profile of contract No. 15 asked for by Rowan, December, 1874, 129

made it roughly on unprinted wall paper, 130.

quantities calculated from it in Ottawa by Frank Moberly and party, 130.

thinks profile made from it was correct, 130.

not cross-sectioned or test-pitted, 130. contract No. 14 located by Brunel to Brokenhead, thence by Forrest,

witness's survey only preliminary, 176.

Brunel's survey expedited work about a fortnight, 176.

Selkirk crossing: witness recommended half a mile south of Sugar Point, 177.

Bruner's crossing about a mile and a-half north of this, 177. good rock foundations at Sugar Point, Brunel's clay and loose sand, 177.

from Rat Portage to Red River, 1447. in charge of locating party in spring of 1874, 1447.

how a trial line is run, 1448.

difference between trial and location, 1449.

a line the exact centre of road-bed, 1449.

witness's line only practicable one on that route, 1451. with the approved grades, 1451.

JARV18, E. W.

southern route Rat Portage to Winnipeg discussed with Carre, 291. thinks \$500,000 would have been saved by it, 292.

reasons for statement, 292 route from Eagle Lake to Sturgeon Lake favourable for railway, 293.

from Red River to Edmonton, 294.

thinks better line could have been obtained north of the North Saskatchewan via Moose Hills, 294.

Selkirk crossing: cost of bridge near rapids about half cost at Selkirk, 297.

recommended crossing at St. Andrew's Rapids, 298. FORREST, H F.

from Rat Portage to Brokenhead River, 349.

under Carre on trial location June, 1874, 319. took part in several other trial lines during winter under Carre's direction, 349.

commenced Shoal Lake survey, January, 1875, 349.

completed it following month, 349.

very little good agricultural land over line traversed, 350.

thinks about half was swamp, 350.
timber quite small on remainder, 350.
after this made track survey from White Fish Bay to Sturgeon Falls,

350.

party: thirty-six, 351.

engaged from middle of February to 26th March and returned to Winnipeg 26th April, 361.

ran about seventy miles, 351.

made plans of track survey till June, 351.

location of contract No. 14, 351

placed under Thompson, 351.

witness's line adopted as final location, 351.

engaged till middle of June, 1875, 352. made no estimate of quantities, 353.

thinks those furnished to tenderers were made up the year before on another projected line, 253.

SURVEYS-continued

LOCATION - continued. FORREST, H. F .- continue !. from station 1660 to station 2075 on Carre's south line of contract No. 15, 335. ran trial line, 355. country very swampy, 355. eastern half about same as located line on contract No. 14, 356 escaped Julius Muskeg, 356. completed March, 1876, 356. from station 2616 on section 14 to Cross Lake, 357. instructed to locate finally, 357. completed about August, 357. no cross-sectioning and no quantities taken out, 357. witness's location adopted, 357. westerly from junction of contracts Nos. 14 and 15, 363. ran a line about three and a-half miles, 363. no great improvement on located line, 364. Frilowss, G. R. L. employed since spring of 1874, 365. from Kat Portage to Brokenhead River, 365. from Shoal Lake to Red River (1875), 365. transit man on Carre's southern survey (1875), 366. has formed no opinion thereon, 367. except that southern line, if adopted in place of section 15, would have been considerably cheaper, 367. engineer in charge makes occasional tests of subordinates' calculations, 368. held responsible for their accuracy, 363. Carre thought southerly line cheaper, 369. short branch at Cross Lake to Clearwater Bay, 370. from zero on section 15 to station 290 (June, 1876), 370. ordered to improve line, 370. four degree curves the maximum, 371. no data on which to calculate quantities till November, 1876, 372. explains process of taking and recording levels, 374. from Wabigoon eastward to Wabigoon River (1875), 538. received instructions while preparing for Fort Frances survey in October, 5.8. engaged till March, 1876, 538 party: from thirty to forty, 5 8. supplies: failure as to, 538. snowshoes and toboggans made by party, 529. sub-section 2 of contract No. 15, nine miles (May, 1876), 539. assistant engineer in charge, 539. cross-sectioned from station 480 to station 950, 540. tenders asked for before these data were available, 541. not called on for profile till after February, 1877, 541.

ROWAN, J. H.

advocated going direct to mouth of Nipigon, 678. thinks route by Narrows decided on in 1874 or spring of 1875, 679. from Rat Portage to Red River, 679. began actual location at Rat Portage end, 679.

contract No. 5, location commenced during 1874, 630. route north of Lake Manitoba, witness's report on, 687. how survey came to be made, 687. contract No. 15, 713.

explains three sets of tenders called for, 713. third set let upon plan of centre line, 713.
approximate quantities impossible without cross-sections, 714. may have been reasons for letting contract other than engineering ones, 714. probably visited section 15 twenty-five or thirty times, 745. more frequent visits desirable, 745.

*CONSTRUCTION-

CARRE, H. appointed engineer in charge of contract No. 15, May, 1876, 132 original location line of 1874 adopted, 132.

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CONSTRUCTION-continued.
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CABRE, H .- continued.
                      re-located the whole section between June and the end of the-
                                year, 132.
                              had four assistants, who took measurements of cross-sections.
                                           133.
                                      for correctness of which they were responsible, 133.
                                      thinks final returns were correct, 134. cross-sections completed in March, 1877, 134.
                              tenders asked for about time cross-sections were com-
                                        menced, 134.
                              quantities not calculated from cross-sections till 1878, 134.
                              changes in grade and allignment increased rock cuttings and
                                      earth excavations, 135
                              without specific data, tenders necessarily speculative, 138.
                              accurate quantities conducive to economy, 138.
                      a southerly route would have saved $275,000, 140.
                              reported strongly to Rowan in favour of a southern line,142.
                               construction of section 14 commenced before southerly line
                                               was located, 149.
                                      had beard that $65,000 worth of work would have to be
                                      abandoned, 149.
net saving say $200,000, 150.
does not think abandonment necessary, 150.
                       cheaper line could have been had from Falcon Lake to Red River,
                       cross-sections necessary to accurate calculations, 154.
                       quantities calculated from cross-sections, January, 1878, 154.
                               after lowering grade two feet, 154.
rock-cutting increased by lowering grade 113,200 yards.
                                               151.
                                      earth excavations increased 224,000 yards, 155.
                                       line thereby improved, 155.
                       increase in cost due to abandonment of trestle work for earth
                                       embankments, 156.
                               deep fillings in water stretches, 161.
                                       Cross Lake probably requires 222,000 yards, cost $82,000, 161.
                                       trestle work probably $17,500, 161.
                                       if filled according to original specification, full rock
                                                base and trestle $345,832, 162
                               as actually executed, $142,500, 162. trestle work cheaper in heavy land voids, 163.
                       instructions from superior officer, 164.
                       refused contractors certain information, and why, 164.
                       cross-sections not returned from Ottawa till September, 1877,
                       change of grade in the meantime, 165
                                determined in Ottawa four months after contract commenced,
                       solid rock bases found impracticable, 166
                       protection walls proposed by witness, 166.
                                approved by Rowan, October, 1877, 166.
                       temporarily approved in August, 167.
instructed to substitute earth for treatle wherever possible in
                                       summer of 1877, 168.
                       ordered by Rowan not to touch a stake, 169
                        Rowan's inspection of line described, 170.
                        witness's suggestions ignored at Ottawa though supported by
                                        Rowau, 171.
                                since carried out by Schreiber, 171.
                       engaged on construction of section 15 four years, 171.
             in June, 1880, Haney made superintendent, 171
              Rowan's letter permitting earth berrowing produced, 172.
witness left in uncertainty as to grades, 172.
comparative statement of quantities for rock bases and protection.
walls respectively, 175.
difference between the contraction of the con
```

differences between Government and contractors' engineers, 179. as to bottoms left in cuttings, 179. loose rock, 180 margin for fluishing work, 180. rock outside of prism, 180.

```
CONSTRUCTION—continued.
```

CARRE, H .- continued.

Fleming's and Smith's interpretation of loose rock clauses, 181-187.

witness recommended permanent bridge at Lake Deception, 188.

FORREST, H. F.

fourth sub-section of contract No. 14, 354.

contract divided into six sections, 354. witness's section near Whitemouth River, 355.

engaged from November, 1875, to January or February, 1876, when he returned to Winnipeg, 355.

returned to contract No. 14 in August, 357. supervising construction till October, 1877, 357.

transferred to sub-section 6, 357.

to revise last mile and a-half at east end of contract No. 14, 357. up to that time grades of section 15 not fixed, 357. quantity calculated for filling last embankment, 29,000 yards, 358.

actually put in, 51,000 yards, 358.

difference due to sliding material in bank, 358. which raised up swampy bottom towards lake, a dis-tance of 400 feet, 358.

excess in quantity disappeared below surface, 358.

fill at station 4010, 359.

crossing a bay of Cross Lake, 359.

quantity estimated, 114,400 yards, 260. as executed, 175,800 yards, 360.

excess due to same causes, 360.

no boring tools used, 361. did not ask for larger tools, 331.

height of embankment about fifty feet, 361.

fill at Cross Lake, section 15, 361.

quantity estimated, 180,000 yards, 362.

used at present by witness's estimate, 215,000 yards, 362. same process of displacement occurred, 362.

not withstanding rock protection walls, 362. FELLOWES, G. R. L.

from zero to station 290 on contract No. 15, 375.

began staking out ground and laying out work for contractor, June, 1877, 375.

not continuously employed, 376.

constant uncervision necessary, 377. character of information desired by contractors, 378.

usually furnished to contractors' engineer, 379.

changes of grade after contract No. 15 was let, 380.

decreased banks, 380.

increased rock cuttings, 380. of location had opposite effect, 390.

made by Schreiber economical, 381.
Kibkpatrios, W. W.
heavy fill at crossing of Lake Deception on contract No. 15, 542. deviation of line diminished quantities, 542.

no proper soundings, 542.

filling gave way; rock protection walls of no avail, 543. work being finished by Government, 544. opinion as to contractor's prices, 545.

district engineer's conduct towards contractor, 546.

MOLESWORTH, A. N. assistant engineer under Thompson on contract No. 14 from June.

progress made when witness arrived, 588.

in charge of thirteen miles eastward from Red River, 589. no delays after witness went there, 589.

from Whitemouth eastward cross-sections required in shorter intervals then 500 feet, 591.

contractors' claims, 593.

Julius Muskeg ditch, 593.

coffer-dam, 594.

ballasting, 591. on the Pembina Branch under Rowan, May, 1877, 591.

off-take ditches made under witness's supervision, 591. quantities not ascertained till work laid out, 592.

which was after contractors were on the ground, 592.

CONSTRUCTION-continued.

```
CADDY, J. S.
      engineer in charge of contracts Nos. 25 and 41 since May, 1879, 642.
           staff: three division engineers and fourteen assistants, 643.
            goes over the line every month, 613.
           trains now run 150 miles, 643.
on contract No. 25, road-bed not completed when he took
                charge, 649
great deal of muskeg, 649.
                not now up to full width of road-bed or to grade, 650.
            on contract No. 41, when he took charge, work staked out,
                       centre-lined, cross-sectioned and bench-marked, 650.
                contractors not delayed, 651.
                character of country changeable, 651.
quantities much reduced and line shortened since letting
                        contract, 651.
                    saving from $400,000 to $500,000, 652.
                reflections on previous location, 652.
                    about one-third rock and muskeg, 653.
                fourteen hundred men employed 653.
                character of work satisfactory, 653.
                disputes with contractors, 654.
ROWAN, J. H.
      from Rat Portage to Fort Pelly, 689.
            appointed engineer in charge in June, 1875, 689.
            had partial supervision of telegraph construction, 690.
                telegraph located on preliminary survey, 690.
      plans and trial locations of section 14 sent to Ottawa, 1874-75, 693.
            approximate profile and quantities made, 693.
            about two-fifteenths of section required cross-sectioning, 694.
            muskegs: depth not known, 695.
                deviations caused work to be largely in excess of estimates,
                        695.
                Julius Muskeg, 698.
                    contractor no ground for claim, 699.
                    nineteen feet deep instead of three or four as estimated,
                        701.
                no boring tools used, 701.
                muskeg material makes good road-bed, 701.
      contractor on contract No. 15 not justified in complaining that infor-
                 mation was withheld, 715.
            witness ordered from Ottawa what to communicate and what
                 not, 715.
          plenty of earth discovered, 716.
            some truth in Whitehead's statement as to trestles being imprac-
                   ticable, 716.
                change to embankment advantageous, 716.
                     reasons for statement, 716.
JENNINGS, W. T.
      in charge of section 42, May, 1879, 759.
            had detailed data as to quantities, 759.
            contractors not delayed, 759.
            changes: grade improved, 760.
                rock cuttings reduced, 760.
                earth reduced, 760.
                all except one approved by Schreiber, 761.
                iron pipe culverts dispensed with, 761.
                bridge masonry reduced 50 per cent., 762.
Manning's estimate an exaggeration, 762.
                piling increased, but timber in trestles not much in excess.
                section will cost $1,500,000 less than estimate, 765.
                     one third being due to trestle work, 765.
                exhaustive borings made, 766
                Manning wrong in placing some borings at 200 feet, 767.
                generally as to improvements of location, 767.
JARVIS, E. W.
      presents report of inspection of contracts Nos. 14 and 15, made at
           request of Commissioners, 772.
SMITH, M.
```

examined contract No. 13 and part of contract No. 25 in 1877, 1588.

contract No. 13 nearly complete, 1589.

1888 INDEX.

ENGINEERING—continued.

CONSTRUCTION-continued.

SMITH, M .- continued.

deviations were being made on contract No. 25, 1589.
cost stated by Hazlewood at very much less than it turned
out, 1589.

recommended embankment of less friable material, 1590. open cutting vs. tunnel, 1590. as to quantities exceeding estimates, 1591.

Engineering Department:

See Department of Railways and Canals.

ENGINEER'S CLAIM:

Molloy, 321. See Contract No. 11.

ENGINE HOUSES.

See Contracts Nos. 26, 40.

ENGLISH RIVER TO EAGLE RIVER:

See Contract No. 41.

EQUIPMENT:

See Contracts Nos. 65, 67, 68.

EXPLORATORY SURVEYS:

See Engineering.

EXTRAVAGANCE AND WASTE OF STORES:

Fleming, 1678. Horetzky, 1712.

FAIRMAN, FREDERICK:

contract No. 8, 1171, 1178, 1185.
No. 11, 1181, 1181.
No. 17, 1182.
No. 20, 1191.
Ao. 22, 1196.
No. 27, 1196.
No. 29, 1196.
No. 30, 1197.
No. 31, 1199.
No. 32, 1201.
No. 36, 1203.
purchase of rails, 1171.

and transportation of rails, 1176.

C. Mackenzie and Cooper, Fairman & Co., 1187.

FALCON LAKE:

See Contract No. 15.

FELLOWES, G. R. L.:

contracts Nos. 14 and 15, 365. No. 14, 381. No. 15, 370.

FENCING, WIRE:

See Contract No. 77.

FISH PLATES:

See Contract No. 51.

FLEMING, SANDFORD:

```
surveys, 1637, 1658.
(1871), 1305, 1640.
British Columbia, 1665.
      Smith's map, 1625, 1683.
             location report, 1628.
contract No. 1, 1322, 1328.
Nos. 1—4, 1326.
No. 2, 1332.
      No. 3, 1336.
No. 4, 1340.
No. 5, 1344.
      No. 5A, 1345.
Nos. 6-11, 1350, 1617, 1622, 1630, 1665.
No. 12, 1358.
      No. 13, 1367.
Nos. 13, 15 and 25, 1371.
No. 14, 1371, 1615.
       Nos. 14 and 15, 1630.
      No. 15, 1378
Nos. 16—18, 1381.
Nos. 20—22, 1382.
       Nos. 23 and 24, 1383.
      No. 25, 1384, 1631, 1654.
Nos. 26—28, 1398.
      No. 29, 1399.
No. 30, 1399.
Nos. 31 and 32, 1401.
       Nos. 32A-40, 1402.
       Nos. 41 and 42, 1403, 1405.
No. 43, 1418.
       Nos. 42-46, 1419.
Nos. 47 and 48, 1420.
No. 48, 1423.
       Nos. 49- 52, 1427.
       Nos 53-55, 1428.
No. 56, 1431.
       No. 57, 1432.
       No. 58, 1433.
No. 59, 1435.
No. 60, 1436.
       No. 61, 1438.
       Nos. 62 and 63, 1439.
No. 64, 1441.
        No. 65, 1442.
        No. 66, 1442.
       Nos. 67 and 68, 1444.
Nos. 69—71, 1445.
effects of patronage, 1315. route and Government policy, 1317.
 alleged improper influence, 1684.
 management, 1685.
discontinuance of connection with railway, 1686.
memorandum to Minister, 1687.
 corrections, 1383, 1404.
            See Appointments.
```

FORREST, H. F.:

exploratory survey, party R, 345. Carre's party (1873), 348. contract No. 5 A, 354. No. 14, 351. No. 15, 349. correction, 381,

FORT FRANCES LOCK :

SUTHERLAND, H.

took charge of work spring of 1875, 330.
generally acted on written instructions from Secretary, Public Works
Department, 331.
reports were addressed to him, not to Engineer-in-Chief, 331.
Mortimer engineer on works, 331.
subsequently Hazlewood, 381.
neither resided at Fort Frances, 331.

SUTHERLAND, H .- continued.

FORT FRANCES LOCK-continued.

```
character of engineering supervision, 332.
          probably not present one day a week, 333.
          in engineer's absence foreman superintended engineering work.
      witness inspected other public works in North-West, 333.
      witness had had no practical experience on locks or canals, 334.
      paymaster John Logan, 334.
      his cheques countersigned by witness, 334.
     accounts for supplies sent direct to the Department, by whom they
          were paid, 334.
      manner of requisitioning for supplies, 335.
      paymaster also acted as store-keeper, 336.
      expenditure made at Fort Frances chiefly wages, 337.
      James Sutherland chief book-keeper, 337.
      general financial arrangements, 337.
      as to alleged misconduct, 338.
          speculation in lands, 333.
              and supplies, 339
      no public moneys passed to witness's private credit, 339. transactions with Wilson, store-keeper, 340.
      refers to Dr. Bown's enquiry, 341
      all transactions shown in James Sutherland's books, 341.
           which books are available for investigation, 342.
      further as to alleged misconduct, 342.
      comparison between amounts paid for supplies and wages, 343.
      supplies generally purchased by tender, 343. transport of supplies a considerable item, 343.
      witness's relatious with Nixon and Alloway, 344.
      nitro-glycerine sold to Whitehead, 345.
      will produce books, 345.
      denies Litle's assertions, 830.
          as to establishment of newspaper by Government money, 830.
          as to employing workmen to seek for timber, 830.
      certain unpaid accounts, 832.
WILBON, G. M.
      engaged in Government store in 1876, under Logan, 442.
          system on which managed, 412. monthly accounts rendered, 443.
      spring of 1877 purchased stock at Logan and Thompson's appraise-
              ment, and supplied men as a private undertaking, 413.
      explains alleged misconduct, 443, 535.
      offers to produce private books, 447.
      produces books and explains various entries, 525-534.
SUTHERLAND, J.
      engaged as book-keeper from spring of 1875 to end of 1878, 452.
      separate account kept for Government store, and for transport, 452.
      store account charged for transport of goods, 454.
      balance of stock handed over to Fowler, 456
      stock transferred to Wilson paid for by supplies, 457.
      system of drawing moneys to be subsequently accounted for by
      vouchers, 458.
moneys paid by Hugh Sutherland revised by Logan and vice versa,
          459.
      articles disposed of to Thompson, 460.
      all cheques signed by Logan countersigned by Hugh Sutherland,
      produces stock account of goods handed to successor and complete
           set of double entry books, 578.
      goods handed over to successor $25,327.10, net value, $20,261.76,
           credited in his store account, 807.
      loss on store account, $233.40, 807.
Brown, G.
      manager Ontario Bank, 508.
      as to manner of keeping Nixon's bank account, 509.
THOMPSON, M. M.
      foreman in charge of works, 619.
      responsible in Sutherland's absence, 619.
      checked wages and time; pay-rolls carefully investigated and
      certified, 620.
at times half the employés were Indians, 621.
      when paid by goods, amount so paid appeared on pay-roll, 622.
```

FORT FRANCES LOCK—continued.

THOMPSON, M. M.—continued.

explains transactions respecting which rumour alleged he had received undue advantages, 622-625.

describes system of book-keeping, 625. respecting small claim for which he became responsible on Govern-

ment account, 626. LITLE, W. B.

his allegations as to misconduct of Sutherland, 825-829. MACRENZIE, HON. A.

as to Fort Frances expenditure, 1808.

FORT WILLIAM TO SHEBANDOWAN:

See Contract No. 13.

FOSTER, A. B.:

See Contracts Nos. 12, 16.

FRASER, GRANT & Co. :

See Contracts Nos. 41, 42.

FRASER, JAMES H.:

contract No. 15, 256, 648.

No. 24, 647. No. 42, 247, 259, 613.

influencing clerks, 614, 618.

FRASER, MANNING & Co.:

See Contract No. 42

Frogs, &c.:

See Contract No. 57.

FULLER & MILNE:

See Contract No. 18.

FULLER, RICHARD:

contract No. 2, 461, 474. No. 18, 472, 1294. line west of Red River, 475.

GAMSBY, C. H.:

letter from Secretary of Commission with questions, 1819. deposition in answer, surveys, British Columbia, 1823. Kitlope Valley, expedition to, 1823.

Lake Tochquonyala, 1823.

GEORGIAN BAY BRANCH:

See Contracts Nos. 12, 37.

GOODWIN, JAMES:

contracts Nos. 41 and 42, 1005. Nos. 60-63, 1008.

No. 61, 1009, 1200.

system of letting contracts, 1011.

Gouin & Co.:

See Contract No. 40.

GOVERNMENT POLICY:

See Policy of the Government.

GUEST & Co.:

See Contracts Nos. 6, 53, 55; Steel Rails.

HAGGART, JOHN, M.P.:

contract No. 15, alleged improper influence, 1012, 1018.
No. 42, 1015, 1018.
No. 48, 1017.

HAYES, DANIEL:

See Contract No. 15.

HAZELHURST, W.:

See Contract No. 58.

HENEY & McGREEVY:

See Contract No. 57.

HENEY, CHARLEBOIS & FLOOD :

See Contract No. 37.

HESPELER, WILLIAM:

Nixch's paymaster-and-purveyorship, 725.

HOLCOMB & STEWART:

See Contract No. 22.

HORETZKY, CHARLES:

exploratory surveys, 1239.

Fort Garry to Rocky Mountains, 1240.

British Columbia, 1241, 1247.

expedition to Kitlope Valley, 1243.

Lake Tochquonyala, 1249.

Pine River route, 1253, 1710.

Peace and Pine River Passes, 1254, 1719.
location British Columbia, 1257.

surveys, 1700.

British Columbia, 1704, 1721, 1749.

Pritish Columbia, 170s, 1721, 1749.

extravagance and waste of supplies, 1712.

Major Williamson's system of surveying, 1707.

photographing the Homathco, 1731.

Houses:

See Contracts Nos. 19, 24, 32.4.

IMPROPER INFLUENCE:

See Influencing Clerks; Assisting Newspapers; contracts and witnesses.

McDonald was using a patent of his, 856. private arrangements with Mowbray, 859.

INFLUENCING CLERKS:

MANNING, A. no negotiations or conversations with members of Parliament or officers of Departments before contract, 499. not aware till afterwards of Close's relations to Morse & Co., 500. witness's version of agreement with Close, 500. knows nothing of negotiations with Smith, of Andrews, Jones & Co., 501. heard of it subsequently, 501. never approached any departmental officer for information or favour. 502 if witness had got information thus would never have told it, 502. obligations of an oath, 502. FRASER, J. H. interview with Chapleau and J. J. McDonald, and witness's views and conclusions thereon, 644-647. further in relation thereto, 648. McDonald, J. J. further as to transaction with Chapleau, 824. Chapleau, S. E. St. O. correspondence clerk since 1873, 850. in charge of public records, 851. practice as to receipt and custody of tenders, 851. reads a statement respecting his transaction with J. J. McDonald, 852. alleged understanding between Smith and witness, 853. telegrams between them, 853. receives money on account, 855.

INFLUENCING CLERKS—continued.

CHAPLEAU, S. E. St. O .- continued. accepts monthly payment for certain information given, 859. offers affidavit from Smith, 860. further as to arrang-ment with Mowbray, 861. reasons for claiming \$3,900 from McDonald for patent, 863. improvement on patent not then patented, 864. no arrangement with McDonald about patent, 865.

COOPER, J. Mackintosh's relations with Whitehead, 926.

STEPHENSON, R., M P

interested in no transactions with Canadian Pacific Railway, 971. no unworthy attempts to influence Committee, 971. no conversation with Whitehead while matter pending before Com-

mittee, 972. aware of no arrangement by which any departmental officer gained improper advantage, 972.

MACDONALD, A. P.

no money from Onderdonk to witness's firm went outside of firm, 988. no knowledge of any improper influence, 988.

never got information from officials, 1010. not aware of any information from, or advantage to, any Member of

Parliament or official, 1011. HAGGART, J., M.P.

no interest in any contract, 1012.

never heard of any Member of Parliament or official receiving money improperly, except Chapleau, 1015. Chapleau's and Mackintosh's transactions, 1018.

KAVANAGH, J.

no departmental information, 1021.

BOULTBEE, A., M P

acted as solicitor for Shields, 1111. never had pecuniary interest in any Canadian Pacific Railway contract, Illl.

not aware of any benefit to any Member of Parliament or official, 1111.

conversation with Sir C. Tupper, as to tenders, 1111.

BOWIE, A.

no knowledge of improper influence, 1152.

TUPPER, SIR CHARLES.

no suspicion of Chapleau's relations with contractors until revealed by Commission, 1272. not aware that any Member of Parliament or official was benefitted

by British Columbia contracts, 1292. transfer to Onderdonk allowed solely in belief that cheaper and better work would accrue, 1292.

MACDONALD, HON. J.

not aware of any Member of Parliament or official, or outside person benefitting improperly by Canadian Pacific Railway contracts,

no conversation with Shields, 1293.

no transaction modified through Shields's influence, 1293.

no knowledge of Close, 1294.

Pope, Hon. J. H.

not aware of any Member of Parliament or official being improperly interested, 1301. further on this matter, 1304

INGALLS, EDMUND:

See Contract No. 38.

INUNDATIONS, RED RIVER:

See Red River Inundations.

IRVING. JOHN:

See Contract No. 39.

ISBESTER, JAMES:

See Contract No. 26.

JARVIS, EDWARD W.:

surveys, party M, 274.

Eagle Lake to Sturgeon Lake, 280, 293.

to Rat Portage, 283.
Cache Creek to Seton Lake and Thompson River, 285.
Tête Jaune Cache to Fraser River, 288.

exploration, Fraser kiver towards Horse Fly Lakes, 287.

Fort George to Edmonton, 289. contracts Nos. 14 and 15, 291, 772. Red River to Edmonton, 294.

inundations, 294.

crossing, 298. line north of Lake Manitoba, 296.

JENNINGS, WILLIAM T .:

surveys, British Columbia, 753. contract No. 4, 768. No. 42, 759, 765, 770, 793.

Julius Muskeg:

See Contracts Nos. 14, 15; Contractors' Claims; Engineering.

KAVANAGH, JOSEPH:

contract No 63, 1018.

KAVANAGH, MURPHY & UPPER:

See Contract No. 33.

KAVANAGU, TIMOTHY:

contract No. 33, 835.

No. 63, 838.

KELLOGG BRIDGE Co.:

See Contract No. 56.

KELLY, PATRICK:

contract No. 15, 612.

KENNY, PATRICK:

See Contract No. 21.

KIRKPATRICK, WILLIAM W.:

party L, 523.
Lacdes Mille Lacs, height of land, Fort Frances, 536.
preliminary survey, Lake Helen to Long Lake, 525.
east and west from Wabigoon, 537.
location, Wabigoon eastward, 538.
contract No. 15, 539.

KITLOPE VALLEY EXPEDITION:

See Horetzky; McNicol; Gams'y.

LAKE DECEPTION:

See Contract No. 15.

LAKE MANITOBA, LINE NORTH OF:

Jarvis, 296. Conners, 599, 604. Rowan, 678, 687, 73?.

LAKE SUPERIOR WESTWARD:

See Contracts Nos. 13, 14, 15, 21, 25, 41, 43.

LAND SPECULATIONS:

Mackenzie, C., 198. Sutherland, 338. Schultz, 720. Bannatyne, 724. Fleming, 1684.

LETTING CONTRACTS, SYSTEM OF:

See System of Letting Contracts.

LITLE, WILLIAM B.:

Fort Frances Lock, 825.

See Assisting Newspapers.

LOCATION SURVEYS:

See Engineering.

LUXTON, WILLIAM F.:

assisting newspapers, 681, 807.

LYNSKEY, THOMAS J.:

Pembina Branch and contract No. 14, 780.

MANITOBA, LAKE:

See Lake Manitoba.

Manning, Alexander:

contract No. 42, 496.

influencing clerks, &c., 499, 502.

Manning, Shields & McDonald:

See Contract No. 42.

MAP, SMITH'S:

See Smith's Map; Smith, M.; Fleming.

MARKS & CONMEE:

See Contract No. 41.

MARPOLE, RICHARD:

contracts Nos. 41 and 42, 1063, 1071, 1084.

No. 42, 1073.

MARTIN & CHARLTON:

See Contract No. 15.

MERCHANTS' LAKE AND RIVER STEAMSHIP Co.:

See Contracts Nos. 20, 27.

MERSEY STEEL AND IRON Co.:

See Contracts Nos. 8. 20; Steel Rails.

MILLER BROS. & MITCHELL:

See Contract No. 50.

MILLS, D. O.:

contracts Nos. 60-63, 1296.

MOBERLY, WALTER:

exploratory surveys, British Columbia, 400. surveys, British Columbia, deposition, 1824.

1896

MOLESWORTH, ARTHUR N.:

contract No. 5A, 591. No. 14, 598, 593. No. 48, 594.

MOLLOY, JOHN:

Contract No. 5, 323, No. 14, 315.

See Engineer's Claim.

MONCTON CAR Co.:

See Contract No. 67.

MORSE & Co. :

Bee Contracts Nos. 41, 42.

Morse, G. D.:

contract No. 41, 1050. No. 42, 1048, 1053.

MOUNTAIN SECTION:

See Contracts Nos. 60-63.

MULHOLLAND, JOHN H.:

contract No. 1, 1021.

MURDOCH, WILLIAM:

surveys (1871). 795. (1872), 797

exploratory survey (1873), 799, preliminary survey (1873), 811. contract No. 12, 801.

Nos 14 and 15, 815. No. 48, 805, 808, 817. No. 66, 807, 814.

alleged improper conduct, 800. terminus on Lake Nipissing, 805. relations with Rowan, 817.

McCord Trail Party, B. C.:

Moberly, 419.

McCornick, Andrew:

contract No. 42, 1079.

MACDONALD, A. P.:

contract No. 15, 977.
No. 33, 981.
Nos. 60—63, 993.
system of letting contracts, 984.

MACDONALD, HON. JAMES:

alleged improper influence, 1293.

contract No. 42, 1193.

McDonald, J. J.:

contract No. 42, 299, 823. influencing clerks, &c , 306, 824.

McIlvaine, Samuel:

contract No. 48, 147.

McIntyre & Worthington:

See Contract No. 16.

MACKENZIE, HON. ALEXANDER:

Minister of Public Works, 1784. location, 1785.

```
MACKENZIE, HON. ALEXANDER—continued.
```

surveys, 1786. ontract No. 1, 1787. No. 2, 1791. No. 3, 1792. No. 4, 1792. No. 5, 1794. No. 5A, 1815. No. 6-11, 1791. No. 12, 1804. No. 13, 1804. No. 14, 1807. No. 15, 1809. Nos. 16 and 17, 1811. No. 18, 1812. No. 20, 1813. No. 25, 1815. No. 28, 1814. Nos. 30 and 31, 1814. No., 34, 1816.

C. Mackenzie and Cooper, Fairman & Co., 1803. Fort Frances Lock, 1808.

MACKENZIE, CHARLES:

steel rails, 188, 198. furnishing supplies, 196. land speculations, 198.

McKenzie, Grier & Co.:

See Contract No. 2.

MACKINTOSH, CHARLES H.:

contract No. 15 and tendering generally, 869. alleged improper influence, 869.

See Assisting Newspapers.

McLennan, Roderick:

surveys, British Columbia, 1513, 1533, 1552. contract No. 13, 1529.

Nos. 13 and 25, 1534.

No. 25, 1535.

McNicol, Edmund:

surveys, British Columbia, 1732. Kitlope Valley Expedition, 1733. Lake Tochquonyala, 1739.

McQueen, Alexander:

assisting newspapers, 722.

McRAE, WILLIAM:

contracts Nos. 60 and 62, 1067.

McTavish, George L.:

contract No. 4, 486.

NAYLOR, BENZON & Co.:

See Contract No. 11; Steel Rails.

NEEBING HOTEL:

See Contract No. 38.

NEWSPAPERS, ASSISTING:

See Assisting Newspapers.

NICHOLSON, FRANK:

contract No. 41, 1095.

Nos. 41 and 42, 1085, 1099. No. 42, 1087, 1098, 1100, 1293. Nos. 48 and 66, 1101.

NIPIGON:

See Engineering.

NIPISSING, LAKE, TERMINUS ON:

Murdoch, 805.

NIXON'S PURVEYORSHIP:

ALLOWAY, W. F. employed by Nixon at 21 per cent. commission to purchase horses. 382. Nixon's judgment always consulted, 383. got contract for carrying mails, 383. Nixon lived in witness's house, 385. bargains for freighting, how arrived at, 385. rates paid, 385. loads carried, 386. North-West Angle, 115 miles, 386. round trip eight to ten days, 386. rate, \$2 per 100 lbs., 387. team, 9 days at \$6, 388. certain reductions made, 389. carrying mails to section 14 once a week, 383. rate \$65 a month, 389. provided carts for survey parties, 390. no private transactions with Nixon, except house, 393. as to certain horse purchases, 394. kept only a memorandum, which book cannot be found, 396. certain other horse transactions, 397-400. failed to find memorandum books, 432 manner of making entries in diary, 433. names of sellers of horses not kept, 433. horses averaged, not detailed, 433 Nixon's motives in dealing with witness not interested, 435. manner of ascertaining weight of freighted goods, 436. also time employed in freighting, 436. charge for horse and cart to Emerson, \$22.50, 438. practice as to vouchers, 438. further as to buying horses, 439. freighting to Fort Frances Lock, 439. carrying mail weekly to contract 15, \$550 to \$600 per month, 441. SUTHERLAND, P. supplied Nixon with certain goods, 448. Nixon lived in witness's house, 448. private account, \$900, written off, 449. further as to dealings between Sutherland and Nixon, 449. Nixon paid no board, 449.

witness felt the necessity of propitiating Nixon to secure patronage. 451. respecting half-breed scrip, 451. witness refused to buy scrip and Government account withdrawn.

no dealings since, 452. applies to correct previous evidence, Chairman's ruling, 547.

witness's correction, 548.

explains system of auditing Canadian Pacific Railway accounts, 482. Nixon's cheques countersigned by witness, 483. no supervision as to details of accounts or prices, 484. for some time vouchers returned monthly to Nixon, latterly sent to Ottawa, 484.

Alloway's receipt only certificate for purchase of 6th May, 1875, 485. his accounts generally certified by Nixon, not by engineers, 485.

engineer's certificates now necessary, 486 RYAN, J.

witness tendered for mail contract, posted tender at Nixon's office, contract given to Alloway at more than twice his price, 490. Nixon denied receiving tender, 490.

STRANG, A. Bannatyne's book-keeper, 492. had transactions with Nixon, 493. INDEX. . 1899

NIXON'S PURVEYORSHIP—continued.

```
STRANG, A .- continued.
      allowed him 10 per cent. discount for purchases on private account,
          493.
      rented to Nixon as Government Agent a warehouse $36 a month,
          494.
      building really belonged to Nixon, 495.
       Nixon leased to witness, and witness to Government, by arrange-
           ment, 495.
       cost Nixon $1,500; possibly $400 spent for improvements, 496.
NIXON, T.
      engaged from spring, 1875, till beginning of 1879, as purveyor and
           paymaster, 504.
       duties described, 504.
       had E. G. Conklin and D. S. Currie as accountants, 504.
       is acquainted with the principles of book-keeping, 505. books not kept by double entry, 505.
       not satisfied with Conklin's method, 505
       witness describes his administration, 506.
           management of Government store, 507.
       values not entered in store-book, 508.
       balance of supplies brought in by engineering parties placed in
           store, 511.
       goods placed in store entered in store-book, but not in general set of
           Canadian Pacific Railway accounts, 512.
       explains the system of sub-agencies, 513.
       does not remember when he became dissatisfied with Conklin's book-
                keeping, 513.
           remembers recommending him for an increase of salary, 513.
       further as to dealing with sub-agents, 514.
       respecting John Brown's account, 515.
       respecting discrepancy of $4,000 in Conklin's books, 515.
       respecting items deposited to witness's private banking accounts, 517.
       money advanced to sub-agents, 518.
respecting Canadian Pacific Railway moneys placed to private
                credit, 548.
            declines to show to what extent this was done, 549.
            refers to his book-keeper, 549.
       as to accounts with sub-agents, 552.
       cannot explain how John Brown's account was balanced, 534.
       generally as to financial administration, 551. further as to deposits of money, 565.
       system of procuring supplies, 565.
       freightage tenders, 566.
       respecting buying horses, 567.
had detailed statement of horse purchases, 567.
       Alloway's books would show details, 568.
       had no private business with Alloway; never endorsed his paper, 572.
       denies having got advantage as purveyor which he could not have
            as individual, 573.
       property returned from survey parties not credited, 574.
       further as to sub-agents' accounts, 575.
having heard Corklin's examination, cannot explain unsatisfactory
            condition of books and financial transactions, 636
       can suggest no way of investigating correctness of his statements
            to Government, 637.
       still deries endorsing for Alloway, states there must have been another Thomas Nixon, 751.
       further as to receipts placed to private credit, 752.
       further as to dealings with Alloway, 770-772. as to evidence given before Public Accounts Committee, 1830, 1831.
       as to private transactions with Alloway, 1830, 1831.
BROWN, G.
       manager Ontario Bank, 508.
       manner of keeping Nixon's bank account, 509.
       produces record of $1,000 note, W. F. Alloway maker, Thos. Nixon
        endorser, Nov 1875, discounted for Alloway, 737.
Alloway's endorser was Thos. Nixon, purveyor, 763.
 CONKLIN, E. G.
       Nixon's book-keeper, 1875 to 1877, 556.
        object of ledger to keep workmen's accounts, 556.
       duties as explained to him by Nixon, 557.
       his system of book-keeping, no record of any transaction till money
```

paid for it, 558.

NIXON'S PURVEYORSHIP—continued.

```
CONKLIN, E. G .- continued.
      knew nothing of Nixon's purchases till accounts came in, 558.
       entries in ledger without any reference to show where posted from,
       entries in day-book not posted in ledger, 559.
       several items not carried beyond the day-book, 560.
       no evidence in witness's books as to moneys placed in Nixon's pri-
           vate account, 562.
       books were not kept in correct manner, 563.
cannot explain on what principle John Brown's account was
balanced by item $2,861.28, 563.
       evidence as to store-book 564.
       after having books in his possession for examination, re-states system
           followed, acknowledges in ordinary business would not have kept them by that method, 628.
       apart from detached papers, supply transactions not shown properly
           in the books, 630.
       if animals purchased were returned by survey parties, books did not
            record such transactions, 630.
       never investigated store-books, 631.
       sub-agents not charged with supplies forwarded, 631.
       no general account showing history of supplies, 631.
       moneys coming into purveyor's hands entered in day-book but not
          posted to any other, 632. means of informing himself of such receipts except by Nixon's
            own statement, 633.
       books offer no explanation of settlement with John Brown, 635.
       admits the book-keeping to be unsatisfactory, 635.
CURRIE, D. S.
       acted as commissariat officer to Carre's party, 576.
       explains duty of sub-agent, 577.
            and manner of keeping accounts, 577
       sub-agent charged with amount of consignment, 579.
       furnished by purveyor with price-list, at which men were to be charged with goods, 579.
       as sub-agent made monthly returns, 579.

cannot say whether goods were invoiced to him by purveyor at cost or at selling prices, 580.

in May, 1877, took over Conklin's books, 561.
        state of affairs was not shown by them, 583.
       books never balanced, 583.
        not possible to trace transactions, 583.
        cannot understand entry to credit of John Brown's account, 583. books afford no clue, 583.
        Nixon purchased supplies, certified correctness of account, and paid
                 it, 595.
        witness introduced new system of accounts, 585.
             which he explains, 586.
        when witness took over books debits amounted to $39,697.20, credits
            to $8,816.58, 587.
        large amount written off on book-keeper's assertion that accounts
             were settled, 587.
 PARE, J.
        store-keeper from spring of 1875 to summer of 1880, 660.
        describes duties, 660
        system of store-keeping elucidated, 661.
        no values given in store-book, 661.
        stock statements showed actual articles in store, not what should be
             there, 662.
        describes robbery of office, 663.
        papers scattered on the floor, 663.
 ROWAN, J. H.
        witness had no control over Nixon's administration, 712.
 BANNATYNE, A. G. B.
        had considerable dealings with Government through Nixon, 725.
        sold Nixon goods privately, also a house, 725.
        business done through witness's manager, 725.
 Nixon received no advantage on account of his official position, 725. HESPELER, W.
```

building broken into between twelve and two at night, 726.

owned Nixon's office, 726.

describes the occurrence, 727.

NIXON'S PURVEYORSHIP—continued.

Nolin, A.

sub-contractor under Alloway, carrying mail to section 15, 788.
Alloway paid \$225 a month, 789.
mail to North-West Angle, once a week, 789. tendered for Fort Frances mail, \$150 a month, 790. Alloway offered \$120, 790.

mode of transit, time occupied, &c., 790.

carried Government freight for seven years, 790. fifty dollars a high price in 1877, for horses without a pedigree, 791. apparent connection between Alloway and Nixon, 791. purchased Government stores from Alloway and Nixon, 792.

his son sold oxen, carts and harness to Alloway, 793. price \$65 each rather high, 793.

NIXON, THOMAS:

paymaster-and-purveyorship, 504, 518, 636, 751, 770. deposition as to evidence before Public Accounts Committee, 1831. See Nixon's Purveyorship.

Nolin, Augustin:

Nixon's purveyorship, 788.

NORTH-WEST TRANSPORTATION Co.:

See Contracts Nos. 34, 52, 69.

OLIVER, DAVIDSON & Co.:

See Contracts Nos. 4, 24.

O'LOUGHLIN, MACROY:

steel rails, 778.

assisting newspapers, 778.

ONDERDONK, ANDREW:

See Contracts Nos. 60 -- 63.

ONTARIO CAR Co.:

See Contract No. 63.

OPERATING PEMBINA BRANCH:

See Contract No. 43.

OPERATING TELEGRAPH:

See Contracts Nos. 1--4.

PARR, JOHN:

Nixon's purveyorship, 660.

PASSES, ROCKY MOUNTAINS:

Moberly, 404, 427, 1825. Horetzky, 1241, 1254, 1719. McLennan, 1514. Smith, M, 1555, 1582, 1594. Fleming, 1668.

PEACH, C.:

See Contract No. 5.

PEMBINA BRANCH:

See Contracts Nos. 5, 5.4, 33, 43, 49.

PERKINS & Co.:

See Contract No. 20.

PILLOW, HERSEY & Co.:

See Contract No. 32.

POLICY OF THE GOVERNMENT:

TUPPER, SIR CHARLES.

early completion Thunder Bay to Red River, 1261. correct estimates of great importance, 1261.

consequent extension of time for tenders, 1261.

to give assurance that rapid development of country and speedy construction of railway would be carried out with as much despatch as consistent with public resources, 1286.

Parliament authorized building 125 miles of railway in British Columbia, 1287.

FLEMING, 8.

public interest suffered from patronage being in hands of political party, 1317.

policy from first to last to get best and cheapest line, 1317. grew as work went on, 1317.

route generally selected on engineering principles, 1318. Mackenzie, Hon. A.

states view as to testimony regarding Government policy. 1785. Fleming sole director of surveys, though frequently consulted by Minister, 1785.

policy was to obtain best and shortest line between Thunder Bay and Rat Portage, 1805 water stretches to be utilized, 1805.

Pope, Hon. John Henry:

contract No. 15, 1303. No. 42, 1302. No. 48, 1302. alleged improper influence, 1301,1304.

PRACTICE OF DEPARTMENT:

See Department of Railways and Canals.

PRAIRIE SECTION:

See Contracts Nos. 48, 66.

PURCELL & RYAN:

See Contract No. 41.

Purcell, Ryan, Goodwin & Co.:

See Contract No. 61.

RAILS PURCHASE OF :

See Steel Rails; Contracts Nos. 6, 7, 8, 9 and 10, 11, 44-47, 53-55.

RAILS, TRANSPORTATION OF :

See Contracts Nos. 17, 18, 20, 21, 22, 27, 28, 34, 39, 52, 69, 70.

RAILWAY CONSTRUCTION: •

See Contracts Nos. 5, 5A, 12, 13, 14, 15, 16, 25, 33, 37, 41, 42, 48, 60, 61, 62, 63, 66; Engineering.

RAILWAY LOCATION:

See Engineering.

RAILWAY OPERATING .:

LYNSKEY, T. J.

superintendent on Pembina Branch and of line from Selkirk easterly, 781. condition of road-bed when witness took charge, 782.

originally too wide, 782. speed had to be reduced to five or six miles an hour, 782. now ballasted and in good order, 782.

RAILWAY OPERATING—continued.

LYKSKEY, T. J .- continued. traffic heavy, present rolling stock, 784. earnings 10th February to 30th June, \$104,975.69, 784. net earnings, \$26,083.68, 785. working expenses and maintenance, 75 per cent. of gross earnings, 785. climatic influences favourable as compared with Intercolonial, 785.

RAILWAYS AND CANALS, DEPARTMENT OF:

See Department of Railways and Canals.

RAT RIVER IRON BRIDGE:

See Contract No. 56

RECEIVING TENDERS:

See System of Letting Contracts.

RED RIVER CROSSING:

Carre, 177. Jarvis, 297. Bain, 618. Rowan, 688, 745, 820. Schultz, 720. Bannatyne, 724.

RED RIVER INUNDATIONS:

JARVIS, E. W. instructed in 1872 to report on most favourable crossing, 294. took considerable evidence, channel of river widening, rain fall decreasing, 295. opposite Winnipeg, has widened fifty feet in nine years, channel is also deeper, 296. SMITH, W. O. channels of Red and Assineboine Rivers, widened by one-third, 665. statistics as to rapidity, 666. no probability of inundations, 667. no danger from ice jams, 667. ice brittle, easily breaks, 667. thinks cultivation will lessen volume, 668. rise of Lake Manitoba, 668. ROWAN, J H. though river has widened, there are places where it has not ; therefore chance of flood not diminished, 747.

RED RIVER TRANSPORTATION Co. :

See Contracts Nos. 18, 28,

REPORT, SMITH'S:

See Smith, M.; Fleming.

REYNOLDS, THOMAS:

purchase of rails, 10%.

ROBINSON. WILLIAM:

See Contract No. 36.

ROUTE:

CAMPBELL, H. M. warden of county of Portage la Prairie, 143. gives evidence as to advantages to arise from a deflection of the line southerly to the Portage, 144. McIlvaine, 8.

lives at Portage la Prairie, 146.

gives evidence in the same direction as previous witness, 148.

JARVIS, E. W.
line south of Lake Manitoba more expedient on engineering grounds, 297.

ROUTE-continued.

FULLER, R. railway west of Winnipeg, as now being constructed, far more desirable, 476. CONNERS, J. L. describes route by the Narrows, 593. from Narrows to Fort Pelly, splendid grazing country, 600. Swan River valley best agricultural country witness ever saw, 601. further as to the route west of Winnipeg, 604. Bain, J. F. not aware that any engineer or Member of Parliament held lands near Selkirk or influenced decision in favour of crossing there, 618. ROWAN, J. H. advocated going direct to the mouth of the Nipigon, 678. thinks route by Narrows decided on in 1874, or spring of 1875, 678. no engineering difficulties north of Lake Manitoba, 678. crossing at Selkirk fixed 1874, 688. no engineer or Member of Parliament interested, 689. most direct route, irrespective of local traffic, sought for, 733. witness's views as to this policy, 733 competition with other transcontinental lines, 734. cost of bridging about same at Selkirk and Winnipeg, 745. Government owned land at Selkirk, not elsewhere, 745. this crossing selected by witness, 820. directed to select where Government owned land, other things being equal, 820. would repeat selection now, 821. SCHULTZ, J., M.P. knows of no Member of Parliament but himself and Bannatyne interested in Selkick crossing, 720. most of the property acquired since Selkirk was selected, 720. BANNATYNE, A. G. B. selection of Selkirk not due to improper influences, 724. TUPPER, SIR CHARLES. climatic conditions weighed in favour of Burrard Inlet as against Port Simpson, 1287. FLEMING, S. beyond that of getting best and cheapest line, not aware of any Government policy, 1317. route selected on engineering principles generally, 1318. witness differed from Government as to location of second 100 miles west of Red River, 1318. that route involved extremely heavy grades and expensive river crossing, 1318. does not remember an earlier instance where he was controlled by Government policy, 1319. Yellow Head Pass practically adopted in 1872, 1320. Pembina Branch location made in 1874 to connect with the American system, 1320. some years elapsed before American system extended to Pembins. 1320. Winnipeg not regarded when line was located, 1321. location between Selkirk and Livingstone by the Narrows in 1875, 1321. the Narrows route determined by engineering reasons, 1321. Selkirk had already been adopted for crossing, 1322. how much of present railway route was seen by witness on his transcontinental trip, 1397. witness's views as to Selkirk crossing, 1684,

Rowan, James H.:

surveys (1871), 669. (187'), 617. (1873), 617. (1874), 679, 687. contract No. 1, 690, 730. No. 4, 692. No. 5, 680, 687, 819. No. 5 A, 731, 748. No. 14, 693, 731, 744, 832. Nos. 14 and 15, 690, 731, 821. No. 15, 713, 738, 745, 821. No. 18, 747.

ROWAN, JAMES H .- continued.

contract No. 33, 748. No. 34, 712. No. 36, 749. No. 48, 750, 820.

line north of Lake Manitoba, 678, 687, 732.

Red River Crossing, 638, 745, 820, 822. to Fort Pelly, 689. construction (1875), 689. Nixon's purveyorship, 712. alleged improper influence, 689. relations with Murdoch, 822.

RUTTAN, HENRY N.:

exploratory surveys, 21. location survey, 23. contract No 1, 34. Nos. 14 and 15, 33. No. 15, 25, 36. No. 59, 35.

RYAN, HUGH:

contract No. 25, 1219, 1239, 1245. No. 41, 1231, 1239, 1245. No. 61, 1235. system of letting contracts, 1238. alleged improper influence, 1239.

RYAN, JAMES:

exploratory surveys, party K, 488. Nixon's purveyorship, 490.

RYAN, JOHN:

contract No. 48, 476. No. 59, 482. No. 64, 481.

SAMUEL, E.:

See Contract No. 20.

SCHREIBER, COLLINGWOOD:

location and construction, 1767. British Columbia, 1783. contract No. 15, 1769, 1782. No. 25, 1776. Nos. 25, and 41, 1771. Nos. 25, 41 and 42, 1772. No. 42, 1768, 1779, 1834. No. 48, 1771.

practice as to estimating works, 1780.

letter from Secretary to Commission with interrogatory, 1831. answer, 1832.

SCHULTZ, JOHN, M.P.:

assisting newspapers, 717, 720.
Fraser and Grant-Whitehead partnership, 718. Red River Crossing, alleged improper influence, 720.

SECURITIES:

Trudeau, 82.

SHIELDS, JOHN:

contract No. 42, 307.

SIFTON, GLASS & Co.:

See Contracts Nos. 1, 2.

SIFTON, JOHN:

contract No. 1, 89, 105, 324. No. 13, 160, No. 14, 103, 264.

SIFTON, WARD & Co.:

See Contracts Nos. 13, 23,

SMELLIE, W. B.:

contract No. 5 A, 1348.

Nos. 14 and 15, 1470, 1484.

No. 15, 1497. No. 25, 1614. No. 48, 1421.

SMITH, JAMES N.:

contract No. 37, 949. No. 42, 938. No. 61, 952.

relations with Chapleau, 947.

SMITH, MARCUS:

surveys, 1505, 1569, 1594, 1603.

British Columbia, 1503, 1509, 1553, 1582, 1593, 1598. Lake Nipissing to head of Lake Superior, 1585.

west of Red River, 1592, 1611.

contract No. 13, 1570. Nos. 13 and 25, 1589, 1604.

No. 14, 1574.

Nos. 14 and 15, 1580, 1593, 1597, 1607. No. 15, 1572, 1595, 1605. Nos. 41 and 42, 1602.

Georgian Bay Branch, 1569.

management of Engineering Department, 1587, 1596.

suppression of map, 1594, location report, 1598.

SMITH'S MAP:

SMITH, M.

map prepared by witness suppressed, 1594.

FLEMING, S.

reference to Smith's map, 1626. suppressed because incorrect, 1626.

not based on sufficiently accurate information, 1626.

Mackenzie in telegraphing for him did not ask him to report against

Smith's views, 1628. Mackenzie expressed his views to witness respecting Smith, 1628.

SMITH, W. OSBORNE:

Red River inundations, 665.

rise of Lake Manitoba, 668.

SPIKES:

See Contracts Nos. 29, 32, 35, 50.

ST. ANDREW'S RAPIDS:

See Red River Crossing.

STATION BUILDINGS:

See Contract No. 49.

STEEL RAILS, 1874-75:

MACRENZIE, C.

special partner with Cooper, Fairman & Co. from 1872; share, \$15,000,

188. no share in management; not aware of tender till notified by public prints, 189.

gave notice of intention to retire, 189.

never saw contract, 189.

took \$15,000 in notes in payment of capital, 189.

refused profits on contracts with Government, 189.

interview with Premier, 190. terms of partnership, 190.

no balance sheet, 192. thinks capital impaired one-half, 192.

nothing yet paid on notes, 192. would have preferred remaining in firm, 194. Cooper, Fairman & Co. did not buy on commission, 195.

no connection with any Government contract, 196.

```
STEEL RAILS, 1874-75-continued.
```

```
MACKENZIE, C .- continue 1.
       furnished supplies to Sutherland and to some engineers and con-
            tractors, 196.
       understanding as to general partnership, 200.
       decision as to retirement communicated before newspaper con-
            troversy, 203.
TRUDEAU, T.
       tenders produced, 833.
       Mersey Co. (Cooper, Fairman & Co) offer 5,000 to 10,000 tons;
            contract for 20,000 tons, 834.
       correspondence with Cox & Green, 835.
       increased quantity ordered from Cooper, Fairman & Co., 841
       witness cannot explain correspondence with Buckingham, 843.
       no Order-in-Council awarding contracts Nos. 6-11 on record, 843.
       no record indicating by what authority secretary informed tenderers
           of acceptance, 844.
       no report on record showing quantity of rails required for use in 1874,
           1817.
       no record of Buckingham's replies to Cooper's telegrams, 1817.
       not usual that correspondence between tenderers and private secre-
       tary should take place, 1818.
the Minister decided upon the e contracts himself, witness's judg-
            ment not asked, 1818.
       of Cooper, Fairman & Co., 915.
       relations with C. Mackenzie, 917.
notification of withdrawal, 919.
dissolution postponed till Fairman's return, 919.
       conditions of partnership, 920.
denies Chas. Mackenzie's statement as to loss of capital, 921.
       Fairman left for England December, 1874, returned March, 1875, 922.
       correspondence with Buckingham, 922.
       agent, Ebbw Vale Co. and Aberdare ('o., 1000. tendency of market downward in fall of 1874, 1001. steady fall till 1879, 1002.
       prices November, 1874, March, 1875, and July, 1879, compared, 1002.
       thought in November, 1874, rails had touched bottom, 1002.
        time by first advertisement too short, 1171.
        England principal source of supply, 1172.
       no large contracts previously, 1172
       no recollection as to certain hypothecated rails, 1173.
       custom of rail trade, 1173.
advertising may stiffen market, 1174.
       brokers percentage, ½ to 1 per cent., 1175.
had been preparing for rail tenders for 12 months, 1179
       his firm acting as agents, 1184.
Charles Mackenzie's relations with firm, 1187.
        retirement of a member a matter of record, 1187
       dissolution in January, 1875, virtual, not legal, 1188. document providing for retirement, 1189.
       formal dissolution registered on witness's return from England, 1190.
Fleming, S.
       reasons for purchasing in 1874-75, 1350.
        witness's recommendation, 1350.
        advices from England as to prices, 1350.
        apart from his memorandumof 1876 his memory shaky, 1350.
        witness reads memorandum; explains why made, 1351.
        called on by Minister to prepare it, 1352.
       knowledge of prices derived from Sandberg, 1352.
Sandberg paid according to number of rails inspected, 1352.
        acted principalty on his counsel, 1353.
        witness did not advise as to quantity, 1354.
        declines to state whether more than an informal conversation pre-
            ceded action, 1354.
        written reports usual in respect of Intercolonial, 1354.
        chief reason for purchase: low price, 1355.
        cannot say how soon he then thought they would be required, 1356.
        quantity decided on after tenders received, 1356.
        thought rails had touched bottom, 1356.
        cannot say why time for tenders extended, 1358.
```

STEEL RAILS, 1874-75 -continued.

FLEMING. S .- continued. produces andberg's diagram of fluctuation, 1358. corrects prior statement as to prices, 1383. cannot find Sandberg's letters, 1618 must have been received in summer of 1874, 1618. impression that rails were selling at near cost, 1619. steel rails first made in 1861 or 1864, 1619. improvements in manufacture, 1620. cannot remember whether Sandberg gave reasons why rails would not go lower, 16:1. as to witness's opinion of the advisability of purchasing at that time, 1632. hesitation in beginning construction partly political, 1622. as to quantity circumstances then demanded, 1623. reason for advising the purchase, 16:3-1625. letter from Sandberg produced, dated 17th December, 1874, 1630. several letters from Sandberg volunteering information, 1665. BURPE, T. R. first letter from Sandberg to be found dated November, 1874, 1665. BRAUN, F. thinks answer to Cooper's letter of 29th December. 1874, directed by Minister through Buckingham; recognises handwriting, 1764. MACKENZIE, HON. A. Fleming recommended purchase of as large a lot as possible as soon as possible, 1794.
every probability of several hundred miles being placed under contract within a year, 1795. as to prices, adopted Fleming's reasons, 1798. thought eight days sufficient notice to induce English competition, 1793. afterwards advised to extend time, 1798. first quantity spoken of by Fleming, 40,000 tons, 1798. does not recollect the Aberdare Co. was passed over, 1800. correspondence with Mersey Co. carried on by Trudeau, 1800. no public competition in respect to contract No. 11, 1802. no recollection of Crawford's offer, 1802. correspondence with Charles Mackenzie, 1803. See Contracts Nos. 6-11.

STEEL RAILS, 1879:

TUPPER, SIR CHARLES. in the summer of 1879, 5,000 tons required, 1275 Reynolds instructed to send circulars to makers for tenders, 1276. to accept the lowest, 1276. he acted under the directions of the Department, 1276. reported the result, 1276. reason for calling for small amount, 1276. large demand would enhance price, 1276. witness before leaving for England directed advertisements to be published, 1276. went to England with Sir John Macdonald and Sir Leonard Tilley, 1276 in Italy when tenders received, 1276. on return to London carried on communications with tenderers, 1276. through Fleming and Reynolds, 1276. accepted lowest tenderers and asked them to double amount, 1276. thus obtained 50,000 tons at low prices, 1276. Order-in-Council for 30,000, 1276. low prices reason for obtaining more, 1276. would result in very considerable saving of public money, 1276.

STEPHENSON, RUFUS, M.P.:

contract No. 15, alleged improper influence, 971.

Wallace & Co. declined to enter into contract, 1277. contracts awarded to lowest tenderers in all cases, 1277. no member of Parliament or other person benefitted, 1277. See Contracts Nos. 44—17, 53—55.

ST. JEAN, DR.:

contract No. 4, 12:6.

STONE FORT:

See Red River Crossing.

STRANG, ANDREW:

Nixon's purveyorship, 492.

STRONACH, JOHN:

contract No 1, 639. No. 2, G11. No. 4, 611.

South Pembina Branch telegraph, 612.

SUPPLIES:

See Contracts; Engineering; Fort Frances Lock; Nixon's Purveyorship.

SURVEYS:

See Engineering.

SUTHERLAND, HUGH:

Fort Frances Lock, 330, 829. alleged misconduct, 338, 312.

SUTHERLAND, JAMES:

Fort Frances Lock, 452, 578, 807.

SUTHERLAND, PETER:

Nixon's purveyorship, 447. correction, 547.

SUTTON & THIRTKELL:

See Contract No. 4.

SUTTON & THOMPSON:

See Contract No. 4.

SUTTON, R. T.:

contract No. 4, 1032, 1069. No. 15, 1040.

SYSTEM OF LETTING CONTRACTS:

MACDONALD, A. P.

wrong from beginning to end, 981. especially a money deposit, 981. how it works, 981. lowest tender system relieves Government of responsibility, 984.

temptations to officials to give information, 981. never got information prior to putting in tender, 985.

system induces speculative tenders, 985. collusion amongst contractors, 985.

throws contracts into the hands of ignorant capitalists, 987.

large deposits impoverish contractor, 288. bulk sum contracts not the proper principle, 988. approves of schedules of quantities, 989.

TRUDBAU, T.

no record kept of time when tenders received, 994. clerks instructed to attach envelopes, 994.

these instructions have been very partially carried out, 994.

GOODWIN, J.

reliable contractors better for the public, 1011. schedule of prices better than bulk sum, 1012.

RYAN, H. bulk sum system an advantage to contractor, 1239.

schedule prices no injustice to public, 1239.

FLEMING, N.

exact quantities desirable, not essential, 1377. inaccuracies due to insufficient knowledge as to muskeg country.

strictly accurate quantities not very essential, 1378.

generally as to receiving and opening tenders, 1384.
practice of making calculation of cost before inviting tenders, 1407. advice to Minister as to acceptance or otherwise of tenders generally verbal, 1408.

no recollection of embodying any estimate of work about to be let in a report, 1408.

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TAYLOR:
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See Contract No. 13.

TELEGRAPH CONSTRUCTION AND MAINTENANCE:

See Contracts Nos. 1-4.

TENDERING:

See Contracts.

TENDERS, RECORDING RECEIPT OF:

See System of Letting Contracts.

THIRTKELL, JOHN:

contract No. 4, 39.

THOMPSON, M. M.:

Fort Frances Lock, 619.

TIES:

See Contracts Nos. 23, 36, 59.

TOCHQUONYALA LAKE:

See Horetzky; McNicol; Gamsby.

TORONTO IRON BRIDGE Co:

See Contract No. 71.

TRUDEAU, TOUSSAINT:

```
practice of Department, 1, 38, 42, 1817.
contract No. 1, telegraph, 4, 37, 38, 40, 43, 50, 60.
No. 2 do 18, 39, 43
No 3 do 38, 45, 833.
No. 4 do 45, 1817.
      No. 5, construction, Pembina Branch, 48, 50, 54.
No. 5A, extension of No. 5, 51.
      Nos. 6-11, purchase of rails, 833, 841, 1817.
No. 12, Georgian Bay Branch, 844.
      No. 13, construction, 69, 81.
      No. 14,
                                  65, 75.
66, 67, 75.
                       do
      No. 15
                       do
      No. 16, Canada Central extension, 846, 1215.
      No. 17, transportation of rails, 846.
      No. 18
                    do
                                                847, 966, 1152.
      No. 19, engineers' house, 867.
      No. 20, transportation of rails, 927.
      No. 21
No. 22
                    do
                                       dο
                                                867.
                    do
                                       do
                                                932.
      No. 23, ties, 868.
      No. 24, house, 868.
      No. 25, construction, Sunshine Creek to English River, 71.
      No 26, engine house, 868, 933, 971.
      No. 27, transportation of rails, 933.
      No. 28
                    do
                                       do
                                                934, 1046, 1152.
      No. 29, spikes, 934.
      No 30, bolts and nuts, 934.
      No. 31
                                    British Columbia, 937.
                      do
      No. 32, spikes, 937.
      No. 32A, engineers' houses, 963, 990.
      No. 33, track-laying and ballasting, St. Boniface to Emerson, 51, 55, 64, 75.
      No. 34 transportation of rails, 856, 965.
      No. 35, spikes, 957.
      No. 36, ties, 57, 60
      No. 37, Georgian Bay Branch, 993,
No. 38, Neebing Hotel, 958.
      No. 39, transportation of rails, 958, 973.
      No. 40, engine house, 972, 991.

No. 41, construction, English River to Eagle River, 75.

No. 42 do 78, 971.
```

TRUDEAU, TOUSSAINT-continued.

contract No. 43, operating railway, 1047. Nos. 44-47, purchase of rails, 959. No. 48, construction, 100 miles west of Red River, 82, 866. No. 49, station buildings, 59, 64. No. 50, spikes, 975, 1153. No. 51, bolts and nuts, 976, 1153. No. 52, transportation of rails, 992. Nos. 53—55, purchase of rails, 997, 1154. No. 56, iron bridge, 998. No. 57, railway frogs, 996. No. 58, iron turn-tables, 1154. No. 59, ties, 87. No. 60, construction, British Columbia, 1154. No. 61 1204. ďο do No. 62 1206. do do No. 63 1207. do do No. 64, bridge over Red River, 1209. No. 65, passenger cars, 1210. No. 66, second 100 miles west of Red River, 87, 1212. No. 67, box and platform cars, 1211. No. 68, postal and baggage cars, 1211. No. 69, transportation of rails, 1213. No. 70 do ďο No. 71, iron superstructure, 1214. Nos. 72-76, entered into after date of Commission, 1214. No. 77, wire fencing, 1214. securities and payments on account, 82. Pembina Branch, 89. system of recording receipt of tenders, 994.

TRURO PATENT FROG Co.:

See Contract No. 57.

TRUTCH, LIEUT.-GOVERNOR:

general supervision in British Columbia, 147.

TUPPER, SIR CHARLES:

policy of Government, 1261. contract No 15, 1277.

No. 37, 1275.

Nos. 41 and 42, 1261, 1272.

Nos. 53—55, 1275. Nos. 60—63, 1286.

alleged improper influence, 1271, 1280, 1292. influencing clerks, 1272.

TURN-TABLES:

See Contract No. 58.

TUTTLE, CHARLES R.:

assisting newspapers, 723. alleged improper influence, 764.

UPPER & Co.:

See Contract No. 43.

VANCOUVER ISLAND:

transportation of rails from, 958, 973. See Contract No. 39.

WADDLE & SMITH:

See Contracts Nos. 1, 3, 4.

WADDLE, JOHN:

contract No. 3, 1118. No. 4, 1102, 1112.

WEST CUMBERLAND IRON AND STEEL CO.

See Contracts Nos. 9 and 10, 44-47, 53-55; Steel Rails.

WHITEHEAD, CHARLES:

contract No. 14, 327. No. 15, 203.

railway ties, 210. assisting newspapers, 328.

WHITEHEAD, JOSEPH:

contract No. 5, 212.

No. 5 A, 243. No. 14, 223. No. 15, 215, 240, 605, 626. assisting newspapers, 242, 606, 627. influencing clerks, 242.

WHITEHEAD, RUTTAN & RYAN:

See Contracts Nos. 59, 61.

WILLIAMSON, MAJOR:

See Horetzky.

WILSON, G. M.:

Fort Frances Lock, 442, 535. alleged misconduct, 534.

WINNIPEG, FIRST 100 MILES WEST OF:

See Contract No. 48.

Winnipeg, second 100 miles west of:

See Contract No. 66.

WINNIPEG TEMPORARY BRIDGE:

See Contract No. 64.

WOODLAND SECTION:

See Contracts Nos. 13, 14, 15, 25, 41, 42; Engineering.

YALE:

transportation of rails to, 958, 973. See Contract No. 39.