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- Copy of a letter from the Chief Inspector of Mines to the Minister of Mines, dated December 4, 1944, re letter of Dr. J.J. Gillis, M.L.A., re diamond drilling Diamond Vale coal property.
- Memo from P.J. Mulcahy to Dr. Sangenta Villia that a print of \$10,000 has been graif of for exploratory willing it he Merritt coal basin, dated November 9, 1955
- Memo from Dr. Sargent to r. walker, Mated November 14, 1945, re proposed diamond drillippin the Merritt Coal Field.
- Letter from G. Murray, as, lett Coal Mines Ltd., dated November 15, 1945 requesting a copy of the geological report by Dr. Hedley on the Nicola Coal Area is available.
- Letter to G. Murray, Merritt from Dr. Hedley re the proposed drilling programme, dated November 20, 1945.
- Wire from G. Murray to Dr. Hedley, dated November 21, 1945 advising that Mr. Lauder, owner surface section 14, assures no objection to drilling.
- Letter from G. Murray, dated November 24, 1945 confirming wire.
- Letter to G. Murray, dated December 4, 1945, requesting that he obtain something in writing from Mr. Lauder confirming the fact that he is agreeable to the drilling being done on land of which he owns the surface rights.
- Copy of wire from J.J. Gillis to E.C. Carson, dated January 24, 1946, recommending abandonment of present hole.
- Copy of wire from J.J. Gillis to E.C. Carson, dated January 26, 1946, further to above.
- Copy of wire from E.C. Carson to J.J. Gillis, dated January 28, 1946, in reply to wires of January 24 and 26.
- Copy of wire from J.J. Gillis to E.C. Carson, dated January 28, 1946, strongly recommending abandonment of present site.

  GEOLOGICAL BRANCH
- Copy of wire from E.C. Carson AoSist 6th Mar Mared impanyper, 1946, advising that hole is to be continued and that Dr. Sargent is going to Merritt.
- Copy of wire from Merritt Board of Trade to E.O. Carson, det d January 28, 1946, urging abandon ment of present holes (OH)
- Copy of wire from E.C. Carson to Freddent, Mernitt Board of Trade, dated January 29, 1946, advisor continuation of print the continuation of print the continuation of print the continuation of the continuat

Drilling consephence have her listed for the but sleet share have been taken to the b. O. Competer capin of the lips are filed here.

Taken to General Office Jan 20/40

- Memo to Miss Taylor from Dr. Sargent, dated February 11, 1946, attaching copy of letter to J.R. Jobling, President, Merritt Board of Trade, dated February 11, 1946, re Diamond Drilling, Merritt Coal Basin.
- Memo to Dr. Walker from Dr. Sargent, dated February 12, 1946, attaching copy of letter to J.R. Jobling, President, Merritt Board of Trade; dated Jebruary 11, 1946, re Diamond Drilling, Merritt Coal Basin.
- Letter from Dr. Hedley to The Hon. E.W. Hamber, dated February 15, 1946, requesting information about the Middlesboro Collieries, Ltd.
- Letter from Secretary to Mr. Hamber to Dr. Hedley, dated February 19, 1946, advising that Mid lesboro Collieries records were burned in a fire.
- Letter from J.R. Jobling, President, Merritt Board of Trade, dated February 19, 1946, acknowledging letter of February 11.
- Letter from Dr. Sargent to J.R. Jobling acknowledging letter of February 19, dated February 22, 1946.
- Memo from Dr. Sargent to the Minister, dated March 1, 1946, attaching a letter from Percy Scott of the Mining Committee, Merritt Board of Trade, dated February 26, re Merritt Drilling.
- Memo from Miss Taylor to Dr. Sargent asking Dr. Sargent to reply to Mr. Scott's letter, dated March 6, 1946.
- Letter from Dr. Sargent to Percy Scott, dated March 8, 1946, in reply to Mr. Scott's letter of February 26.
- Information obtained by telephone on May 7 from F.O. Morris re Lot 120.
- Letter from J.J. Gillis to Hon. R.C. MacDonald, dated May 21, 1946, re abandonment of hole.
- Letter from the Minister to J.J. Gillis, dated May 28, 1946, ad- vising the hole is to be continued.
- Letter from J.J. Gillis to Hon. R.C. MacDonald, dated June 6, 1946, re abandonment of hole.
- Letter from Miss Taylor to J.J. Gillis, dated June 11, 1946, advising that the Minister is out of town.
- Wire from J.J. Gillis to Hon. R.C. MacDonald, dated June 10, 1946, re abandonment of hole.
- Letter from Miss Taylor to J.J. Gillis, dated June 11, 1946, advising that the Minister is out of town.

- Letter from J.J. Gillis to Hon. R.C. MacDonald, dated June 13, 1946, re drilling at Merritt.
- Wire from J.J. Gillis to Hon. R.C. MacDonald, dated June 17, 1946, re drilling at Marritt.
- Wire from Hon. R.C. Mat Donald to J.J. Gillis, dated June 17, 1946, advising abando ment of hole.
- Memo from Mr. Dickson to R.C. MacDonald re letter of May 11, 1946, from Mr. Geo. Murray, Norritt Coal Mines, Ltd., re the programme of drilling. Memo dated May 29, 1946.
- Letter from Miss Taylor to Mr. Murray, dated June 12, 1946, acknowledging his letter of May. 11 and advising him that the Minister is away.
- Wire to George Hanson, Geological Survey, Ottawa, from Dr. Sargent, dated October 22, 1945, requesting the location of certain boreholes in Merritt Coal Basin.
- Wire from Dr. Walker to Dr. Sargent, dated October 26, 1945, advising that Hanson has no unpublished information re boreholes.
- Letter from Dr. Sargent to Dr. Hanson, dated October 23, 1945, confirming wire of October 22, 1945.
- Wire from Dr. Hanson to Dr. Sargent, dated October 24, 1945, advising that they have no data relating to the locations of boreholes.
- Letter from Dr. Sargent to R.A. Smith, Merritt, dated February 6, 1946, enclosing copy of report re Merritt Collieries Ltd. made in 1913 by Frank C. Green and a report by Alfred J. Gaul.
- Letter from Mr. Dodd, Gold Commissioner, Greenwood, dated July 9, 1946, to Dr. Walker enclosing letter to Dr. Walker from Dr. Sargent dated July 6, 1946, enclosing the description of intersections which resemble commercial seams in Holes 1, 2 and 4 and in old Hole No. 11.
- Memo to the Minister from Dr. Sargent re Sunshine Coal property, dated July 15, 1946.
- Memo to the Minister from Dr. Sargent enclosing transcript of the record of coal seams cut in holes 1, 2 and 4 and hole no. 11, dated July 12, 1946.
- Memo to the Minister from Dr. Sargent, dated July 31, 1946, re drilling of Hole No. 5.

- Letter from Dr. Sargent to Dr. Walker, dated July 6, 1946, enclosing description of intersections in Holes 1, 2 and 4 and in Hole No. 11.
- Memo from Dr. Sargert to Mr. MacDonald, dated July 9, 1946, re Hole No. 4.
- Memo from Dr. Sargent to Mr. MacDonald, dated July 10, 1946, re the proposal to drill two additional holes.
- Memo to Dr. Hedley, Dr. White and Mr. Newmarch from Dr. Sargent, dated May 27, 1946, advising that a summary of information obtained in drilling at Merritt is to be made by the officers connected with the project.

- Letter from Dr. Hedley to Dr. Sargent, dated October 31, 1945, re maps of the Merritt area.
- Notes from report by Frank C. Green, 1913.
- Letter from E.R. Hughe's to Dr. Hedley, dated December 19, 1945, giving a report on the drilling at Merritt.
- Letter from Dr. Hedley & E.R. Hughes, dated December 22, 1945 acknowledging receipt of above letter.
- Memo from Dr. Sargent to Dr. dedley that a summary of information obtained in drilling at Merritt is to be made by the officers connected with the project. Dated May 27, 1946.
- Letter from Dr. Hedley to Dr. Sargent, dated May 31, 1946, re consultation with J.J. Gillis and G. Murray.
- Letter from Dr. Sargent to Dr. Hedley, dated June 6, 1946, acknowledging above letter.
- Memo to Dr. Sargent from Dr. Hedley, dated May 28, 1946, re information on Merritt Coal Investigations.

### Merritt Files

- Letter from Dr. Sargent to Boyles Bros., dated October 30, 1945, re drilling program.
- Letter from Dr. Hedley to Boyles Bros., dated November 22, 1945, re drilling.
- Letter from Boyles Bros, to Dr. Sargent, dated November 30, 1945, enclosing three copies of contract and advising that equipment will arrive on Dec. 4.
- Letter from Dr. Sargent to Boyles Bros., dated December 3, 1945, re contracts.
- Letter from Dr. Sargent to Boyles Bros., dated December 5, 1945, enclosing contract re drilling at Merritt, changes to be initialled and two copies returned.
- Letter from Dr. Sargent to Boyles Bros., dated December 5, 1945, re the supplying of core boxes.
- Letter from Dr. Sargent to Boyles Bros., dated December 12, 1945, requesting acknowledgement of letters dated December 5.
- Letter from Dr. Sargent to Boyles Bros., dated January 12, 1946, requesting a daily report of footage on periodic reports of drilling.
- Reports of work dated January 31, 1946 and February 12, 1946.
- Reports of work dated January 15, 21, 28, 31, and February 7, 1946.
- Reports of work dated February 14 and 15, 1946
- Letter from Dr. Sargent to Boyles Bros., dated February 15, 1946, requesting dates to which items listed under standpiping apply.
- Letter to Boyles Bros. from Dr. Bargent, dated February 15, 1946, re drilling.
- Report of work dated February 21, 1946.
- Letter from Boyles Bros. to Dr. Sargent, dated February 16, 1946, regarding dates of standpiping.
- Letter from Dr. Sargent to Doyles Bros., dated February 23, 1946, acknowledging above letter.
- Report of work dated February 28, 1946.
- Report of work dated March 7, 1946.

Letter from Dr. Sargent to Boyles Bros., dated March 22, 1946, re experiment by Boyles Bros. in drilling Hole No. 2.

Report of work dated March 14, 1946.

Total of Boyles invoices.

Letter from Dr. Sargent to Boyles Bros., dated March 26, 1946. pointing out errors in accounts.

Report of work dated March 31, 1946.

Corrected invoices for weeks ending February 15 and January 31, 1946

Report of work dated March 21, 1946.

Letter from Boyles Bros. to Dr. Sargent, dated March 28, 1946, advising that no charge is being made for the experiment.

Letter from Dr. Sargent to Boyles Bros., dated April 1, 1946, acknowledging above letter and requesting a credit note for January.

Reports of work dated April 7, 1946, April 14, April 21, April 22, May 7, May 15, May, 1946, May 31, June 8, June 15, June 22, June 3C, 1946.

Letter from Dr. Sargent to Boyles Bros., dated May 10, 1946, advising that Mr. Newmarch is going to replace Dr. White.

Letter from Dr. Sargent to Boyles Bros., dated July 17, 1946, re the drilling of another hole.

Letter from Dr. Sargent to Boyles Bros., dated July 30, 1946, re account dated June 30.

Letter from Dr. Sargent to Boyles Bros., dated August 6, 1946, re drilling of Hole No. 6.

Reports of work dated July 31, 1946, August 7, August 14, August 17, July 7, 1946.

Letter from Boyles Iros to Dr. Sargent, dated November 7, 1945, re cost of drilling program.

Letter from Dr. Sargent to Boyles Bros., dated November 15, 1945, acknowledging the above letter.

- Letter from T. Connors Diamond Drilling Co. to Dr. Sargent, dated October 31, 1945, advising that Mr. Murphy is out of town.
- Letter from Dr. Sargent to T. Connors Diamond Drilling Co., dated November 1, 1945, acknowledging letter of October 31.
- Letter from T. Connors Diamond Drilling Co. to Dr. Sargent, requesting a copy of Ells' report "Nicola Coal Basin" and Memoir 69, dated November 2, 1945.
- Letter from Dr. Sargent to T. Connors Diamond Drilling Co., dated November 3, 1945, advising that they can obtain copies of the two reports at 305 Federal Building.
- Letter from Dr. Sargent to T. Connors Diamond Drilling Co., dated November 7, 1945, further to drilling program.
- Letter from T. Connors Diamond Drilling Co. to Dr. Sargent, dated November 13, 1945, re cost of drilling.
- Letter from Dr. Sargent to T. Connors Co., dated November 14, 1945, giving more information about number of holes, etc.
- Letter from Boyles Bros. to Dr. Sargent, dated December 14, 1945, enclosing two copies of Contract.
- Description of land from contract with Boyles Bros.
- Memo from Dr. Sargent to Mr. Mulcahy, dated April 4, 1946, re Hole No. 2.
- Memo from Mr. Mulcahy to Dr. Sargent re payment of invoices, dated April 11, 1946.
- Copy of voucher dated April 18.
- Memo from Dr. Sargent to the Minister, dated March 27, 1946, giving costs of Holes No. 1 and 2.
- Costs of Holes No. 1 and 2.
- Merritt Drilling Costs

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- Copy of memo from Asst. Deputy Minister of Finance to Dr. Walker, dated June 28, 1946, re grant for Merritt Drilling.
- Special Warrant No. 1
- Special Warrant No. 7

Note book belonging to W.H. white?

Sketch of Outcrops damilton Ck. Area.

Comparison of Geological Section at Drill Hole #1 and B.P. Litte's (White).

Trial section by J.M. Black

Map of Merritt Area.

Map of part of Merritt Coal Basin

Plan of Coldwater Hill, W.H. White, 8/3/46

Descriptive Notes "Nicola Map-Area, B.C.," Geological Survey Paper 44-20 by W.E. Cockfield. Preliminary map 44-20A

Brief Report on Merritt Coal Basin by M.S. Hedley, November 1945.

Geological Map of the Coal Basins of Quilchena Creek, Coldwater River, Coal Gully and Tenmile Creek, Nicola Valley, Yale Dist. B.C. to illustrate report of R.W. Ells, L.L.D., 1904

Map by Dawson, Nicola, B.C. 30 May, 1904.

Photostat copy of map of Merritt area.

Sections from Middlesboro maps.

Tracing of Portals of Diamond Vale Mine

Legend of Merritt Coal Log

Copy of Log of No. 11 Hole, Diamond Vale Collieries (3)

Middlesboro Collieries Ltd. Section.

Geological Section near Diamond Vale Mines.

Copy of Log of No. 11 Hole, Diamond Vale Collieries

Manager's report to the Shareholders, Diamond Vale Coal and Iron Mines, Ltd., March 1907.

Copy of letter from B.P. Little to The Diamond Vale Collieries, Ltd. dated October 20, 1909.

Coal Production Merritt Coal Field to end 1944

Sketch Diamond Vale Bore Hole 2

List of maps of Merritt Coal Basin

Letter from Frank C. Green to T.J. Smith, Vancouver enclosing a report on the Coal Property of the Diamond Vale Collieries, Ltd.

4 copies of report on Merritt Coal Basin by M.S. Hedley, November 1945.

Memo from Dr. Hedley to Superintendent, November 19, 1945, requesting information re lands in vicinity of Merritt.

Memo from Superintendent of Lands to Dr. Hedley, dated November 26, 1945, enclosing a list of lands in the vininity of Merritt, giving description and assessed owner.

Notes re lands around Merritt

Letter from Dr. Sargent to Land Registry Office, Kamloops, dated December 4, 1945 re uesting information re land in the vicinity of Merritt

Letter from Land Registry Office, Kamloops, dated December 11, 1945, giving information requested in above letter.

Letter from Dr. Sargent to Land Registry Office, Kamloops acknow-ledging above letter, dated January 11, 1946.

- 2 copies of letter from Frank C. Green to T.J. Smith, Vancouver, dated June 30, 1913, enclosing report on the Diamond Vale Collieries Ltd.
- 3 copies of report by Alfred J. Gaul on Diamond Vale Colliery Merritt, B.C., Preliminary remarks.

Map Coal Lands of the Diamond Vale.

Map "A-B" Section across Nicola Valley Coal Basin

Letter from Dr. Sargent to Dr. White, dated February 15, 1946, authorizing him to go to Merritt.

Progress Report and Log of Hole No. 1, 924' to 964'

Wire from Dr. Sargent to Dr. White, dated February 20, 1946, asking him to phone.

Wire from Dr. White to Dr. Sargent, dated February 20, 1946, advising that hole is to be stopped.

Letter from Dr. Sargent to Dr. White, dated February 22, 1946, confirming telephone conversation re next hole.

Progress Report and Log of Hole 900 to 924

Letter dated February 17, 1946 from Dr. White to Dr. Sargent, discussing differences in Dr. Mandy's logs and his own.

Letter from Dr. Sargent to Dr. White, dated February 22, 1946, acknowledging above and asking Dr. White to collect specimens of the types of rock logged.

Letter from Dr. White to Dr. Sargent, dated February 24, 1946, enclosing Progress Report, February 22 - 24, discussing possibility of drilling two more holes.

Letter from Dr. White to Dr. Sargent, dated February 19, 1946, re stratigraphy of the Diamond Vale section of the Merritt Coal Basin. Enclosing comparison of geological section at Drill Hole #1 and B.P. Little's.

Letter from Dr. White to Dr. Sargent, dated February 21, 1946, enclosing Progress Report and log for Hole No. 1, 964 - 995. Re location of Hole No. 2.

Letter from Dr. Sargent to Dr. White, dated February 25, 1946, Acknowledging receipt of February 19 and 21 letters.

Letter from Dr. Sargent to Dr. White, dated February 26, 1946, re logging.

Letter from Dr. White to Dr. Sargent, dated Earch 3, 1946, enclosing Progress Report of Hole No. 2, February 27 - March 3.

Progress Report Drill Hole No. 2 - March 4 - 6.

Letter from Dr. White to Dr. Sargent, dated March 9, 1946, enclosing progress report March 7 to 9, re drilling of Hole #2.

Letter from Dr. White to Dr. Sargent, dated March 11, 1946, enclosing progress report of Hole No. 2, March 10 - 11, and log of Hole No. 1.

Letter from Dr. White to Dr. Sargent, dated March 14, 1946, enclosing progress report of Hole No. 2, March 12 - 14, re experiment in drilling and location of third hole.

Wire from Dr. White to Dr. Sargent, March 14, 1946, re Blanc's new method.

Note on telephone converstion.

Wire from Dr. Sargent to Dr. White, dated March 13, 1946, re drilling.

Wire from Dr. White to Dr. Sargent, dated March 13, 1946, re drilling.

Letter from Dr. Sargent to Dr. White, dated March 16, 1946, re drilling.

Letter from Dr. White to Dr. Sargent, dated March 16, 1946, geological section containing the Coldwater Hill seams.

Wire from Dr. White to Dr. Sargent, dated March 19, 1946, re drilling.

Letter from Dr. White to Dr. Sargent, dated March 19, 1946, enclosing progress report, Hole No. 2, March 15 - 19. Re experiment in drilling.

Letter from Dr. Sargent to Dr. White, dated March 22, 1946, re above.

Progress Report, Hole No. 2, March 20 - 24, log 150' - 243', progress report March 25 - 27.

Wire from Dr. White to Dr. Sargent, dated March 26, 1946, re drilling.

Letter from Dr. Sargent to Dr. White, dated March 29, 1946, re specimens of core.

Progress report, Hole No. 2, March 27 - 29, log 2441 - 3061

Progress report, Hole No. 2, April 1 - 3, log 387' - 476'

Progress report, Hole No. 2. April 3 - 6, log 478' - 632'

Progress Report, Hole No. 2, April 7 - 8, log 643' - 677'

Letter from Dr. Sargent to Dr. White, dated April 4, 1946, re location of Hole No. 3.

- Wire from Dr. White to Dr. Sargent, dated April 5, 1946 re drilling.
- Wire from Dr. White to Dr. Hedley, dated April 8, 1946, re drilling.
- Letter from Dr. Hedley to Dr. White, dated April 8, 1946, re location of next hole.
- Progress report, drill hole No. 2, April 8 10, log 679' 761'
- Letter from Dr. hedley to Dr. White, dated April 12, 1946, re location of 3rd hole.
- Letter from Dr. White to Dr. Hedley, dated April 12, 1946, re location of next holes.
- Progress report, Drill Hole No. 2, April 10 12, log, 772' 831'
- Wire from Dr. Hedley to Dr. White, dated April 15, 1946, re drilling.
- Letter from Dr. Hedley to Dr. White, dated April 16, 1946, re drilling.
- Progress report, Drill Hole No. 2, April 15 17, log, 894' 944'
- Letter from Dr. White to Dr. Sargent, dated April 18, 1946, re next hole.
- Letter from Dr. Sargent to Dr. White, dated April 23, 1946, acknowledging above letter.
- Letter from Dr. White to Dr. Sargent, dated April 24, 1946, re drilling of new hole.
- Letter from Dr. White to Dr. Sargent, dated April 15, 1946, re Hole No. 2. Enclosing sketch of outcrops on Hamilton Creek, Progress report, Drill Hole No. 2, April 12 15, log 834' 893'.
- Letter from Dr. Hedley to Dr. White, dated April 17, 1946, re drilling.
- Letter from Dr. Sargent to Dr. White, dated April 20, 1946, re drilling.
- Letter from Dr. White to Dr. Sargent, dated April 25, 1946, re drilling.
- Wire from Dr. Sargent to Dr. White, dated April 27, 1946, requesting Northwest mss.

- Wire from Mr. MacDonald to Dr. J.J. Gillis, dated April 29, 1946, re information about another drill hole.
- Wire from Dr. Gillis to Mr. MacDonald, dated April 29, 1946, giving information about other drill hole.
- Wire from Dr. White to Dr. Walker, dated April 29, 1946, advising him that he has given information to Dr. Sargent.
- Wire from Dr. Gillis to Mr. MacDonald, dated April 30, 1946, re information about other drill hole.
- Letter from D<sub>r</sub>. Sargent to Dr. White, dated April 30, 1946, acknowledging letters of the 24th and 25th.
- Letter from Dr. White to Dr. Sargent, dated April 30, 1946, re Hole No. 3. Enclosing copy of a letter from Jas. A. Irvine, to Geo. A. Bogy, dated May 14, 1906, letter from G. Hoffman to Charles H. Keefer, dated June 12, 1906, letter from C.H. Keefer to R.W. Ells, dated June 30, 1906, copy of log of bore hole No. 1 Indian Reserve, dated April 25, 1906.
- Letter from Dr. Sargent to Dr. White, dated May 4, 1946, requesting that he get in touch with Dr. Gillis and G. Murray and ask them to propose the location for next hole.
- Letter from Dr. White to Dr. Sargent, dated May 4, 1946, re Emory Creek camp.
- Letter from Dr. White to Dr. Sargent, dated May 4, 1946, re Hole No. 3. Enclosing progress report, Drill Hole No. 3, May 2 4, log 95' 202'.
- Letter from Dr. White to Dr. Sargent, dated May 2, 1946, redrilling. Enclosing progress report, Hole No. 3, April 29 May 2, log 7' 90'
- Letter from Dr. Sargent to Dr. white, dated May 6, 1946, re drilling.
- Wire from Dr. Sargent to Dr. White, dated May 6, 1946, requesting specimens of core.
- Letter from Mr. Newmarch to Dr. White, dated May 7, 1946, requesting Dr. White to reserve a room at the hotel.
- Log of Hole No. 3 357' 459'.
- Progress report, Drill Hole No. 3, May 8 10.
- Progress report, Drill Hole No. 3, May 6 8
- Log, Hole No. 3, 320' 355'.

Letter from Dr. White to Dr. Sargent, dated May 8, 1946, re casing.

Wire from Dr. White to Dr. Sargent, dated May 10, 1946, re caving.

Letter from Dr. Sargent to Dr. White, dated May 10, 1946, enclosing accounts from Boyles Bros. to be approved.

Drawing.

Letter from Dr. Sargent to Dr. Black, dated June 14, 1946, re drilling.

Progress report, Drill Hole No. 3, June 17 - 18.

Log of Hole No. 3, 1175' - 1270'.

Progress report, Hole No. 4, June 19 - 24

Progress report, Hole No. 4, June 26 - 28

Log of Hole No. 4, 286' - 385'

Letter from Dr. Black to Dr. Sargent, dated June 23, 1946, re drilling.

Letter from Dr. Sargent to Dr. Black, dated June 28, 1946, re drilling.

Log, Hole No. 4, 186' - 286'

Progress report, June 24 - 26, Hole No. 4.

Wire from Dr. Black to Dr. Sargent, dated June 28, 1946, re drilling.

Letter from Dr. Black to Dr. Særgent, dated June 29, 1946, re drilling.

Wire from Dr. Black to Dr. Sargent, dated June 29, 1946, recommending that hole be continued to 600'.

Letter from Dr. Sargent to Dr. Black re storing of core, dated July 2, 1946.

Letter from Dr. Sargent to Dr. Black, dated July 2, 1946, re abandonment of Hole No. 3.

Progress report, Hole No. 4, June 28 - July 2.

Log, Hole No. 4, 385' - 491'.

Letter from Dr. Black to Dr. Sargent, dated July 2, 1946, re logging of holes.

Wire from Dr. Black to Dr. Sargent, dated July 4, 1946, advising the hole has reached 570.

Letter from Dr. Sargent to Dr. Black, dated July 4, 1946, re storing core.

Wire From Dr. Sargent to Dr. Black, dated July 4, 1946, advising him to terminate drilling at about 580.

Wire from Dr. Sargent to Dr. Black, dated July 4, 1946, recore.

Progress report, Hole No. 4, July 2 - 4.

Log, Hole No. 4, 491' - 572'

Letter from Dr. Black to Dr. Sargent, dated July 4, 1946, enclosing TDl form.

Letter from Dr. Black to Dr. Sargent, dated July 6, 1946, re incident with Mr. Murray.

Wire from Dr. Black to Dr. Sargent, dated July 8, 1946, re removal of casing.

Wire from Dr. Sargent to Dr. Black, dated July 8, 1946, asking him to phone.

Letter from Dr. Sargent to Dr. Black, dated July 9, 1946, reletter of July 6.

Wire from Dr. Sargent to Dr. Black, dated July 10, 1946, re casing situation.

Wire from Dr. Sargent to Dr. Black, dated July 12, 1946, re abandonment of Hole No. 3.

Memo from Dr. Walker to Dr. Sargent, dated July 16, 1946, re storing of core.

Letter from Dr. Sargent to Dr. Black, dated July 16, 1946, re storing of core.

Letter from Dr. Sargent to Dr. Black, dated July 17, 1946, re drilling of new hole.

Letter from Dr. Sargent to Dr. Black, dated July 17, 1946, renew hole.

Letter from Dr. Black to Dr. Sargent, dated July 20, 1946, re Hole No. 5.

Letter from Dr. Sargent to Dr. Black, dated July 22, 1946. enclosing an account to be certified.

Progress report, Hole No. 5, July 23 - 25

Letter from Dr. Black to Dr. Sargent, dated July 25, 1946, re removal of casing.

Progress report, Hole No. 5, July 17 - 23.

Letter from Dr. Black to Dr. Sargent, dated July 23, 1946, re drilling of Hole No. 5.

Letter from Dr. Sargent to Dr. Black, dated July 26, 1946, re termination of drilling.

Log. Hole No. 5, 178' - 310'

Wire from Dr. Black to Dr. Sargent, dated July 27, 1946, progress of drilling.

Progress report, Hole No. 5, July 25 - 27.

Log, Hole No. 5, 310' - 443'.

Letter from Dr. black to Dr. Sargent, dated July 27, 1946, redrilling.

Progress report, Hole No. 5, July 27-29.

Log, Hole No. 5, 451' - 520'

Letter from Dr. Black to Dr. Sargent, dated July 29, 1946, re drilling.

Wire from Dr. Black to Dr. Sargent, dated July 29, 1946, re crilling.

Wire from Dr. Black to Dr. Sargent, dated July 29, 1946, re drilling.

Progress report, Hole No. 5. July 29 - 30

Log, Hole No. 5, 530' - 555'.

Sketch of outcrops Hamilton Ck. Area.

Wire from Dr. Black to Dr. Sargent, dated August 6, 1946, re drilling.

Memo from Dr. Sargent to Dr. walker, dated August 6, 1946, re hole No. 6.

Letter from Dr. Sargent to Mr. Newmarch, dated May 10, 1946, instructions.

Progress report, Hole No. 3, May 11 - 13.

Letter from Mr. Newmarch to Dr. Sargent, dated May 14, 1946 re drilling.

Progress report, Hole No. 3, May 14 - 15.

Log. Hole No. 3 459' - 549'.

Progress report, Hole No. 3, May 16 - 17.

Log. Hole No. 3, 550' - 671'

Progress report, Hole No. 3, May 18 - 20

Log, Hole No. 3, 676' - 800'

Progress report, Hole No. 3, May 21 - 25

Progress report, Hole No. 3, May 26 - 27

Wire from Mr. Newmarch to Dr. Sargent, dated May 27, 1946, re drilling.

Wire from Dr. Sargent to Mr. Newmarch, dated May 27, 1946, advising that Dr. Hedley will arrive Thursday.

Copy of memo from Dr. Sargent to Dr. Hedley, Dr. White and Mr. Newmarch, dated May 27, 1946, advising them a summary of information is to be prepared by the officers of the Department who had anything to do with the Merritt drilling.

Wire from Dr. Sargent to Mr. Newmarch, dated May 28, 1946, advising that hole is to be continued.

Log, Hole No. 3, 810' - 861'.

Progress report, Hole No. 3, May 28 - 29.

Log, Hole No. 3, 863' - 946'

Progress report, Hole No. 3, May 30 - 31

Letter from Mr. Newmarch to Dr. Sargent, dated May 31, 1946, re location of next hole.

Progress report, Hole No. 3, June 1 - 2

Progress report, Hole No. 3, June 3 - 4

Progress report, Hole No. 3, June 5 - 9

Log, Hole No. 3, 946' - 1024'

Wire from Mr. Newmarch to Dr. Sargent, dated June 8, 1946, advising that rods arrived.

Letter from Mr. Newmarch to Dr. Sargent, dated June 12, 1946, re drilling.

Letter from Dr. Sargent to Mr. Newmarch, dated June 15, 1946, re arrival of Dr. Black.

Sketch.

Letter from Dr. Sargent to Mr. Newmarch, dated June 8, 1946, re costs of drilling.

Letter from Dr. Sargent to Mr. Newmarch, dated June 12, 1946. re Hole No. 3.

Progress report, Hole No. 3, June 10 - 12

Frogress report, Hole No. 3, June 13 - 16.

Log, Hole No. 3, 1030' - 1093'.

Log, Hole No. 3, 1099' - 1175'

Letter from Dr. "edley to Dr. Mandy, dated December 6, 1945, re Hole No. 1.

Letter from Dr. Sargent to Dr. Mandy, dated January 11, 1946, requesting reports twice a week on drilling progress.

Progress report, Jan. 7 - 12.

Letter from Dr. Hedley to Dr. Mandy, dated December 15, 1945, summary of essential points of the contract with Boyles Bros.

Progress report, Jan. 14 - 15.

Log, 105' - 151', Hole No. 1

Progress report, Jan. 15 - 16

Log, Hole No. 1, 154' - 241'

Wire from Dr. Sargent to Dr. Mandy, dated January 19, 1946, re drilling.

Progress report, January 17 - 19.

Log, Hole No. 1, 251' - 396'

Letter from Dr. Sargent to Dr. Mandy, dated January 21, 1946, re drilling.

Letter from Dr. Sargent, to Dr. Mandy, dated January 22, 1946, re drilling.

Wire from Dr. Mandy to Dr. Sargent, dated January 22, 1946, re progress of drilling.

Progress report, January 19 - 22

Log, Hole No. 1, 396' - 508'

Letter from Dr. Mandy to Dr. Sargent, dated January 17, 1946, re renting a car.

Progress report, January 22 - 23.

Log. Hole No. 1, 508' - 585'

Wire from Dr. Mandy to Dr. Walker, dated January 24, 1946, re progress of drilling.

Wire from Dr. Mandy to Dr. Walker, dated January 31, 1946, advising that he is returning to Merritt.

Wire from Dr. Sargent to Dr. Mandy, dated January 31, 1946, advising that he is going to merritt.

Letter from from Dr. Mandy to Dr. Sarient, dated February 2, 1946, re drilling.

Letter from Dr. Sargent to Dr. Mandy, dated February 5, 1946, re trip to Vancouver.

Progress report, January 24 - February 6.

Log. Hole No. 1, 594' - 643'

Progress report, February 6 - 8

Log. Hole No. 1, 646' - 698'

Letter from Dr. Sargent to Dr. Mandy, dated February 12, 1946, re trip to Vancouver.

Progress report, February 9, - 12

Log, Hole No. 1, 708' - 801'

Letter from Dr. Sargent to Boyles Bros, Merritt, dated February 14, 1946, advising that Dr. White is replacing Dr. Mandy.

Letter from Dr. Sargent to Boyles Bros., Vancouv r, dated February 14, 1940, advising that Dr. White is replacing Dr. Mandy.

Letter from Dr. Sargent to Dr. Mandy, dated February 14, advising that Dr. White is replacing him.

Wire from Dr. Sargent to Dr. Mandy, dated February 14, advising that Dr. White is replacing him.

Progress report, February 12 - 16.

Log. Hole No. 1, 811' - 900'.

Copy of letter from J.A. Irvine to G.A. Bogy, dated May 14, 1906.

Copy of letter from C. Hoffman to C.H. Keefer, dated June 12, 1906.

Copy of letter from C.H. Keefer to R.W. Ells, dated June. 30, 1906.

Letter from Dr. Hedley to Dr. Mandy, dated December 15, 1945, summary of the essential points of the contract between the Government and Boyles Bros.

Letter from Dr. Sargent to Dr. Mandy, dated January 11, 1946, requesting reports of progress twice a week.

Coal Basin notes after Frank C. Grien.

Invoice from Boyles Bros., February 15, 1946.

Letters to Dr. Mandy, Boyles Bros, Vancouver, Boyles Bros, Merritt, advising that Dr. White is replacing Dr. Mandy, dated Feb. 14, 1946

Letter from Dr. Sargent to Dr. White, dated February 15, 1946, authorizing him to go to Merritt.

Letter from Dr. White to Dr. Sargent, dated February 19, 1946, re stratigraphy of the Diamond Vale section.

Letter from Dr. White to Dr. Sargent, dated February 21, 1946, re location of Hole No. 2.

Letter from Dr. Sargent to Dr. White, dated February 22, 1946, re drilling.

Letter from Dr. Sargent to Dr. White, dated February 22, 1946, re selection of specimens.

Letter from Dr. Sargent to Dr. White, dated February 25, 1946, re drilling.

Letter from Dr. Sargent to Dr. White, dated February 26, 1946, re logging.

Letter from Dr. White to Dr. Sargent, dated February 27, 1946, re drilling.

Receipt for express sent C.P.R. from Merritt to Dr. Sargent.

Letter from Dr. White to Dr. Sargent, dated February 28, 1946, re drilling.

Letter from Dr. Sargent to Dr. White, dated February 28, 1946, enclosing cheques for expenses and salary.

Boyles Bros. invoice, February 28, 1946.

- Letter from Dr. White to Dr. Sargent, dated March 3, 1946, acknowledging letter of February 28.
- Letter from Dr. Sargent to Dr. White, dated March 6, 1946, re drilling.
- Letter from Dr. White to Dr. Sargent, dated March 9, 1946, re drilling.
- Letter from Dr. White to Dr. Sargent, dated March 11, 1946, re Hole No. 2.
- Wire from Dr. Sargent to Dr. White, dated March 13, 1946, re drilling.
- Wire from Dr. White to Dr. Sargent, dated March 13, 1946, information re drilling.
- Wire from Dr. White to Dr. Sargent, dated March 14, 1946, re new method.
- Letter from Dr. White to Dr. Sargent, dated March 14, 1946, re new method.
- Letter from Dr. White to Dr. Sargent, dated March 16, 1946, geological section containing the Coldwater Hill seams.
- Letter from Dr. Sargent to Dr. White, dated March 16, 1946, location of next hole.
- Letter from Dr. White to Dr. Sargent, dated March 19, 1946, re new method.
- Wire from Dr. White to Dr. Sargent, dated March 19, 1946, re drilling.
- Letter from Dr. Sargent to Dr. White, dated March 22, 1946, re new method.
- Wire from Dr. White to Dr. Sargent, dated March 26, 1946, re drilling.
- Merritt Drilling Costs
- Letter from Dr. Sargent to Dr. White, dated March 29, 1946, re drilling.
- Letter from Dr. White to Dr. Sargent, dated March 31, 1946, re drilling.
- Letter from Dr. White to Dr. Sargent, dated Mpril 1, 1946, re drilling costs.
- Letter from Dr. Sargent to Dr. White, dated April 3, 1946, re drilling.

- Letter from Dr. Sargent to Dr. White, dated April 4, 1946, re Hole No. 3.
- Wire from Dr. White to Dr. Sargent, dated April 5, 1946, re progress.
- Wire From W.H. White to Dr. Hedley, dated April 8, 1946, reprogress.
- Letter from Dr. Hedley to Dr. White, dated April &, 1946, re location of next hole.
- Letter from Dr. White to Dr. Hedley, dated April 9, 1946, re drilling.
- Letter from Dr. White to Dr. Hedley, dated April 12, 1946, re location of next hole.
- Letter from Dr. Hedley to Dr. White, dated April 12, 1946, re location of next hole and enclosing invoice from Boyles Bros. March 30, 1946.
- Letter from Dr. White to Dr. Hedley, dated April 15, 1946, re drilling.
- Wire from Dr. Hedley to Dr. White, dated April 15, 1946, re drilling.
- Letter from Dr. Hedley to Dr. White, dated April 16, 1946, re drilling.
- Letter from Dr. Hedley to Dr. White, dated April 17, 1946, re next hole.
- Letter from Dr. Sargent to Dr. White, dated April 18, 1946, re drilling.
- Letter from Dr. White to Dr. Sargent, dated April 24, 1946, re drilling.
- Letter from Dr. Sargent to Dr. White, dated April 20, 1946, re next hole.
- Letter from Dr. Sargent to Dr. White, dated April 23, 1946, re next hole.
- Letter from Dr. White to Dr. Sargent, dated April 25, 1946, re drilling.
- Letter from Dr. White to Dr. Sargent, dated April 28, 1946, re Northwest manuscript.

C.P.R. Express receipt for manuscript sent to Dr. Sargent.

Wire from Dr. Walker to Dr. White, dated April 29, 1946, re telegram to Dr. Gillis.

Wire from Mr. MacDonald to Dr. White, dated April 29, 1946, telegram to Dr. Gillis.

Wire from Dr. White to Dr. Walker, dated April 29, 1946, advising that he sent the material to Dr. Sargent.

Letter from Dr. White to Dr. Sargent, dated April 30, 1946, re location of Hole No. 3.

Letter from Dr. Sargent to Dr. White, dated April 30, 1946, re drilling.

Letter from Dr. White to Dr. Sargent, dated May 2, 1946, re drilling.

(

Letter from Dr. White to Dr. Sargent, dated May 4, 1946, re drilling.

Wire from Dr. Sargent, to Dr. White, cated May 6, 1946, re sending in specimens.

Letter from Dr. Sargent to Dr. White, dated May 4, 1946, re drilling.

Letter from Dr. White to Dr. Sargent, dated May 6, 1946, re drilling.

C.P.R. Express receipt for rocks sent to Dr. Sargent.

Letter from Dr. Sargent to Dr. White, dated May 6, 1946, re collecting specimens.

Letter from Dr. White to Dr. Sargent, dated May 8, 1946, re progress of drilling.

Wire from Dr. White to Dr. Sargent, dated May 10, 1946, re progress of drilling.

Boyles Bros. invoice, April 30, 1946, No. 804

Boyles Bros. invoice, April 30, 1946, No. 782

Boyles Bros. invoice, April 30, 1946, No. GI-83

Letter from Dr. Sargent to Mr. Newmarch, dated May 28, 1946, re employment forms etc.

Letter from Dr. Sargent to Mr. Newmarch, dated June 8, 1946, re cost of drill rods, etc.

- Letter from Dr. Black to Dr. Sargent, dated June 26, 1946, enclosing Civil Service application.
- Wire from Dr. Black to Dr. Sargent, dated June 28, 1946, re drilling.
- Letter from Dr. Black to Dr. Sargent, dated June 28, 1946, re drilling.
- Wire from Dr. Black to Dr. Sargent, dated June 29, 1946, r-commending hole to be continued.
- Letter from Dr. Black to Dr. Sargent, dated June 29, 1946, re drilling.
- Letter from Dr. Sargent to Dr. Black, dated June 27, 1946, re drilling.
- Letter from Dr. Black to Dr. Sargent, dated July 2, 1946, re logging.
- Letter from Dr. Sargent to Dr. Black, dated June 28, 1946, re drilling.
- Wire from Dr. Black to Dr. Sargent, dated July 4, 1946, re drilling.
- Letter from Dr. Black to Dr. Sargent, dated July 4, 1940, enclosing TDl form.
- Wire from Dr. Sargent to Dr. Black, dated July 4, 1946, advising when to terminate present hole.
- Letter from Dr. Sargent to Dr. Black, dated July 2, 1946, re storing core.
- Letter from Dr. Sargent to "r. Black, dated July 2, 1946, re drilling.
- Wire from Dr. Sargent to Dr. Black, dated July 4, 1946, re coal specimens.
- Letter from Dr. Black to Dr. Sargent, dated July 6, 1946, re incident with Mr. Murray.
- Letter from Dr. Sargent to Dr. Black, dated July 4, 1946, re storing of core.
- Wire from Dr. Sargent to Dr. Black, dated July 4, 1946, re specimens of typical core.
- Wire from Dr. Black to Dr. Sargent, dated ----, re casing.
- C.P.R. Express receipt for rock samples sent to Dr. Sargent.

Wire from Dr. Sargent to Dr. Black, dated July 10, 1946, re casing situation.

Wire from Dr. Sargent to Dr. Black, dated July 8, 1946, requesting him to phone.

Wire from Dr. Black to Dr. Sargent, re drilling.

Wire from Dr. Sargent to Dr. Black, dated July 12, 1946, advising abandonment of hole No. 3.

Letter from Dr. Sargent to Dr. Black, dated July 16, 1946, re storing of core.

Letter.from Dr. Sargent to Dr. Black, dated July 17, 1946, re further expenditure for another hole.

Letter from Dr. Sargent to Boyles Bros., dated July 17, 1946, re new hole.

Letter from Dr. Black to Dr. Sargent, dated July 20, 1946, re drilling.

Letter from Dr. Black to Dr. Sargent, dated July 23, 1946, re drilling.

Letter from Dr. Sargent to Dr. Black, dated July 22, 194, re certification of voucher.

Letter from Dr. Black to Dr. Sargent, dated July 25, 1946, re drilling.

Letter from Dr. Black to Dr. Sargent, dated July 27, 1946, re drilling.

Wire from Dr. Black to Dr. Sargent, re drilling.

Wire from Dr. Black to Dr. Sargent, dated July 29, 1946, re drilling

Letter from Dr. Black to Dr. Sargent, dated July 29, 1946, re drilling.

Letter from Dr. Sargent to Dr. Black, dated July 26, 1946, re winding up program.

Wire from Dr. Black to Dr. Sirgent, dated July 29, 1946, re drilling.

Carbon copies made at Merritt of original logs Holes 1 - 5, 1946, also Hole No. 6, 1946
Hole No. 11 Diamond Vale
Indian Reserve Hole
Blair Shaft
Middlesboro No. 1 Hole.

Progress Notes, 1946 drilling.

Carbon copies of Progress Notes typed in Merritt

Copies of Dr. Mandy's Progress Notes copies from originals in Victoria.

	SHALE, grey, sandy, cross-bedded sandstone streaks	21	6*	726+	8 m
,	SHALE, black, compact	1:	4#		
	SHALE, grey, sandy, with sand lenses		6 !!		6#
	SANDSTONE, shaly, shale streaks dipping at high	-			•
	angles, vertical channelling	191	611	7661	Ou
	SHALE, sandy, with sand streaks		Où		
	SANDSTONE, grey, poorly sized, with shaly streaks	•			
	dipping at high angles	291	On	802+	Om
	SHALE, grey, sandy		8 m		
	SANDSTONE, shaly stre aks at high angles		4	811:	_
	SANDSTONE, light grey, coarse, poorly sorted	21	911	8131	
	SHAIE, grey, sandy	61	3"	8201	
	SANDSTONE, light grey, coarse	31	Qu -	8231	
	CONGLOMERATE, Med., to coarse with few sand lenses		0#		
	SANDSTONE, grey, coarse, cross-bedded	81	On	8571	
	SHALE, black, coal marks		0#		
	SHATE, black, coal marks and soft black mud		0 12 )	•	
	COAL	01	6n}	8621	6#
	SHALE, dark grey, compact		6 n	8791	Oir
	SHALE, grey, sandy	41	Oa	8831	O a
	SHALE, dary grey, compact	51	Oa	8881	Ou
	SHALE, grey, sandy, with sand streaks	21	O#	8901	$O_{11}$
	SANDSTONE, coarse, cross-bedded, shale streaks	31	Oμ		
	SHALE, dark grey, fractured		Out		Ois

Remainder of log is on file at Victoria

mW. H. Whitem

Assoc. Mining Engineer

10/ Mar./46

CONGLOMERATE, fine NDSTONE, fine grained MALE, light grey, sandy SANDSTONE, light grey, coarse, few shaly streaks SHALE, dark grey, sandy, sand streaks, coal marks COAL, with lim Shale parting SHALE, dark grey, coal streaks COAL, SHALE, COAL, SHALE, COAL, with 2" Shale parting SHALE, COAL, black COAL, black	11 21 13 11 10 50 01	68004537131934 ************************************	3751 3761 3761 3761 4501 4661 4661 4681 4751 4751	88059436414
SHALE, Black COAL, SHALE, black COAL, SHALE, black coal marks and several 1" Coal seams COAL, SHALE, black, coal marks	01 01 01 91 01	911818 1818 1018 1018	4761 4761 4761 4851 4861 4881	56 m 9 m 8 m 2 m 2 m
SHALE, black, coal streaks COAL, SHALE, black, fissile, leaf molds, coal marks COAL, SHALE, grey, somewhat sandy SANDSTONE, coarse, poorly sorted	11 01 101 01 41	O# 0# 0# 0# 0# 0# 0# 0# 0# 0# 0# 0# 0# 0#	5021 5021 5071 5081	8# 4# 6# 0# 0#
	321 31 41 41 41	0" 6" 0" 2" 6" 0"	5151 5471 5501 5551 5611 5671	6 u 6 u 6 u 6 u
SANDSTONE, shaly SANDSTONE. light grey, medium grained with a few coarse	701 701 701 41 11 01	0# 0# 6# 0# 6# 10# 2#"	5731 6431 6461 6501 6521 6561	0# 0# 6# 0# 10#
SANDSTONE; dark grey, shaly SHALE, grey, sandy, with many sand lenses, much fractured and high core loss SANDSTONE, coarse, poorly sorted SHALE, dark grey, sandy fractured SANDSTONE, grey shaly Dip 100	11 91 91 101 101 31 61	6 m 6 m 0 m 0 m 0 m 0 m 0 m 0 m 0 m 0 m	6571 6671 6691 6881 7081 7111 7181 7211	0n 0n 0n 0n 0n

LOG OF HOLE #1

//35°

(Located on NW quarter Sec. 14, Tp. 91, 378; E From Diamond Vale

Hole #11) (Elevation 1986;)

Boulder Clay	1021		1021	0 11
SANDSTONE, grey, med., to coarse grain, with shaly				-
streaks	141	Om	116*	O#
SHALE, dark, sandy		6#	1221	
		Ou		
SANDSTONE, very coarse, poorly sorted, shaly streaks			1271	
SHALE, grey, sandy		6 <b>n</b>	131,	
SANDSTONE, grey, coarse, coal marks			1331	
COAL, bony	0 *	10m	1341	8#
SHALÉ, dark, fissile, coal marks	11	6n _	1361	
SANDSTONE, grey coarse, some fine sand and shaly streaks	111		1471	
		0#	1561	
SHALE, black, leaf molds, few sandy streaks			120	2-
SANDSTONE, shaly, finely bedded		6#	1581	
SHALE, dark to black, coal marks		Om	1611	
SHALE, dark, sandy		Oa	1621	
( ANDSTONE, Med. grain, with few shaly streaks	41	8#	1671	4"
SHALE, sandy, grey	21	6 11	1691	
SANDSTONE, Med., grain, shaly streaks, coal marks		2#	1731	
		On	180	O#
SHALE, black, coal marks, much fractured				
SANDSTONE, Light grey, coarse		8#	1831	
SHALE, Grey, sandy		6 <del>n</del>	1891	2 <del>u</del>
SANDSTONE, grey, coarse, poorly sorted			2001	On
SHALE, dark grey, slightly sandy Dip 250	91	O# .	2091	Ou
SANDSTONE, Shaly Dip 150	41	6 <b>n</b>	2131	
	•	Çü	2201	
HALE, dark grey, sandy, fractured	0.	U x	220.	0
SANDSTONE, Med. to coarse, poorly sorted, few fine sand	7.00	A	0704	- H
and shaly streaks		On .	2391	
SHALE, black, compact, leaf molds			2521	
COAL	01	8 <b>n</b>	2531	2"
SHALE, black, much fractured	81-	10 <b>"</b>	2621	On
SANDSTONE, fine grain, shaly Dip 140	4.1	On.	2661	O#
SANDSTONE, very coarse poorly sorted with some irregular	-	•		•
SANDSIONE, Voly considerable About control bolds	3 4 1	On	2801	OΠ
fine conglomerate bands, Abrupt contact below				
SHALE, black, fractured	יב י	1=1	2831	
( al,		4 <u>7</u> u	2831	
SHALE, black, fissile, leaf molds	91	Oar	2921	
SANDSTONE, Med., to fine grained, somewhat shaly		Ou	3001	6 n
SHALE, dark, fractured	41	Ou	3041	6. <b>m</b>
SANDSTONE, grey, shaly, coal marks	31	On	3071	6 <b>n</b>
SANDSTONE, grey, shary, cour mains		6 n	3141	ÖĦ
SHALE, grey to black, fractured, 1 Coal seam	-	6#	3181	
SANDSTONE, shaly, dark grey	4'	0	710.	0
SANDSTONE, light grey, coarse, poorly sorted, irregular				/ =
conglomerate streaks		Oit	330	
CONGLOMERATE, fine			331	
SANDSTONE, light grey, coarse, friable, poorly sorted	271	0u	3581	3 n
SHALE, dark, sandy, with fine sand streaks Dip 140	51	911	3641	On
DEALE, warn, sandy, with time sand strong bip it	11	én	3681	
SANISTONE, grey, medium grained, shaly streaks	<del>'7</del> '	-	J00.	_
CONGLONERATE, fine, with coarse sand streaks and 2"		<b>∧</b> #	707.	£ 19
streak of sandy shale	יל י	Oμ	3731	0~

## LOG OF MERRITT DRILL HOLE #1 - 9641 - 9951

00000	41	Ou	•••	9681 0#
	Įį	8 <b>m</b>	•	9691 8m
maday comones noon beto and because	-	4 <sup>tt</sup>		976 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Greenstone, fine-grained, dark green.		Om	_	985 0
GREENSTONE, fine,-grained, somewhat brecciated	31 31	0# 6#	_	9881 6# 9891 6#
Greenstone millowed somewhat porphy-	<b>-</b> ,	6n	-	9891 <u>6</u> " 9951 0"

## END OF HOLE #1

"Wm. H. White"

William H. White Assoc. Mining Engineer.

#### MERRITT DRILL HOLE #1 - LOG 924' to 964'

SHALE, grey, badly fractured	31	4m 1	ı 2 <sup>#</sup>	9271	4"
Abrupt, Irregular Contact, Dip 35° SANDSTONE, grey, fine even-grained	01	811		9281	On
SANDSTONE, grey, fine even-grained,	•	0		250	<del></del>
Scattered grains of Sulphide	41	0" 1	1 911	9321	OH
SHALE, grey, compact, somewhat sandy	01	11"	•	93 2'	11"
SANDSTONE; grey, fine even-grained. Dip 290	01	1"		9331	On
SHALE, grey, compact, sandy	31	10"		9361	10"
SFALE, grey, compact, sandy. Fine sand	_			/ -	
streaks Dip 230 Seam of carbonate.	1'	5 <sub>11</sub>		938+	Ou
SHALE, grey, compact, sandy	01	11"		9381	11"
SANDSTONE, coarse, poorly sorted	0*	1"		939 1	0u.
SHALE, grey, compact, sandy. Fine sand seams				7 🗸	
Dip 31°	31	Oii		9421	Оu
SHALE, grey, compact, numerous sand seams	_				· · · · · · · ·
Dip 29°	7 :	6m 1	0"	949 '	6#
SHALE, dark, badly fractured	21	611 0	1 <u>6</u> 11	9521	Ou
SHALE, black, coalxmarks, badly sheared	1'	10" 0	10"	9531	10"
MUD or GOUGE SEAM, containing fragments of shale				•	
and a 2" seam of crushed COAL	01	511		9541	3.4
BRECCIA, coarse fragments, sand cement.	21	911-0	611	957	Он
MUD or GOUGE SEAM, containing fragments of		-			
breccia and fine flakes of shale	1 '	0"			
COAL, about 1" of bony fragments and some coal				_	
mud recovered	01	6"(?)	יי10יי1(	9581	611
MUD or GOUGE SEAM, as above	1'	6#		9601	O"
SHALE, ground up, containing some coal fines	01	10" (	) t 4"	9601	10"
DIORITE, medium coarse grained, containing biotite					
and horneblende. Sheared contact with					
shale dips 45°	01.	8"		961'	6"
SHALE, dark, badly sheared	01	6" (	01 14	9621	On
CONGLOMERATE, poorly sorted with coarse					
sand lenses	2,	On (	0' 2"	964 •	Oii

1 lote: Diorite logged at 961' is thought to be a boulder.

"Wm. H. White"

William H. White Assoc. Mining Engineer. Mandy's logging and fine it similar to my own, possibly a bit more meticulous. However, there are minor differences. That which he logs as ale is in places arenaceous to the extent that under the glass individual grains can be seen. This material, which is dark, but not black in appearance may be what is referred to as "Sandy Shale" in the log of Hole #11. Mandy's "Sandy Shale" is that in which sand streaks are quite evident to the naked eye. At present I am logging the slightly arenaceous shale as "Grey" or "Dark", reserving the term "Black" for the argillaceous shale. Another point: Material which Mandy describes as "Limey" is that containing patches and stringers of carbonite. In logging I am following the usual practise of tabulating the core missing in a separate column, where possible assigning the loss to its proper place in the section.

The textural features of these sediments indicates variable environment of deposition such as would obtain in a periodically flooding river at grade or delta. Cross-bedding, abrupt changes in grain size, poorly sorted sands, abrupt contacts between sandstone and shale, and much evidence of channelling characterize the material. Probably the beds are lite lenticular, and correlation of individual horizons in these lower measures correspondingly difficult.

	THIC	KNESS	MISS	ING_	DEPTH	
SHALE, dark, soft, slickensided partings	, 10	)† O#	51	Om	9101	Om
carbonate stringers.			-	-		
Abrupt Irregular contact		4 <sup>13</sup>			9101	иtt
ANDSTONE, light, coarse-grained		J.			910'	
HALE, dark, finely cross-bedded	464	5"			9101	-
SANDSTONE, light grey, coarse, cross-bed Cross-bedding dips 700	ueu	2			710.	10
SHALE, dark with intercalated seams of f	ine l'	$0_{\tilde{\mathbf{u}}}$			911,	10n
Sand			•		^-	
SANDSTONE, light grey, coarse (About 1mm	.) 21	Ou		7"	9131	TOM
with some grains of shale.	-			-		•
Abrupt contact.		0.89		72	03.50	O#
SHALE, black with a few fine-grained san	d l'	24		7 <b>=</b>	9151	0
streaks interbedded.	-	•		-		
S.AIE, black, compact, wavy bedding with		5 <b>#</b>			9181	ភ្ដ
average dip 45 degrees	٦.	1불박)			918	
COAL, bony, bright partings, friable SHALE, black, much fractured, slickensid	ad 11	3=1		2"	9191	
	Off T.	12 1			<u>/-/</u>	
fragments. SHALE, black with a few sandy streaks an	đ					-
wavy bedding dipping about 45 deg	rees 4	1 24	2	′- 3¤	92410	)#

#### MERRITT DIAMOND-DRILLING

#### LOG OF HOLE NO. 1, CONT'D.

escription	Thickness Depth
Shaly sandstone (Shale streaks vertical and steep angles cross beddi	
coaly marks, limey, fracture slickensided.)	/10' 0") — 811' 0"
SANDSTONE, (Coarse; coaly fractures) Actual SHALE (Black, part sandy, broken,	21 4*
coaly marks)	41 2m
SANDSTONE, (Coarse Sandstone to fine conglomerate)	1: 0 <sup>it</sup> 821: 0 <sup>it</sup>
SANDSTONE, ( " " " " "	
Very Soft) " SANDSTONE, ("" " " " "	01 8n 21 7n
CONGLOMERATE, to breccia (Coarse,	
dark green soft)	61 2m 8311 0m
ONGLOMERATE, to breccia (Coarse, greenish, broken, soft)	21 8n 8341 0n
CONGLOMERATE TO Breccia (Coarse,	2, 0
greenish, broken, soft) "	11 0# <u>8361 0#</u>
CONGLOMERATE, (Very coarse; soft,	31 3 <sup>m</sup> 8401 0 <sup>m</sup>
broken at end; mud seams " CONGLOMERATE " " " " " " "	31 3" 8401 0" 21 1" 8401 0"
Mud from conglomerate, (Bit plugged	0.00
and core probably washed) *ANDSTONE, (Grey, Coarse, fractured,	01 4 <sup>m</sup> 8501 0 <sup>m</sup>
slickensided)	41 411
SHALE, (Black, broken, fractured	Da (B
slicken ** SANDSTONE (fractured slickensided) **	01 6" 8561 0" 01 11"
SANDSTONE, (fractured, slickensided) "SHALE (Black, broken) "	11 8#
SHALE (Muddy, very soft)	71 8m
SHALE (Coaly, muddy, very soft)	01 5# 11 8# 8641 0#
SHALE (Brown, broken, soft)  NOTE 8' Cave in Hole from 856 -	
Mud thickened to remedy thi	
SHALE (Fairly compact, black, in part	4.0.
broken) Actual	4181 <u>8691 011</u>
SHALE, (Black, soft, broken) SHALE, (Black, compact, fracture	<b>0</b> • <b>0</b>
slickensided "	21 On 8781 On
SHALE, (Black, part sandy, fairly	71 3"
compact ) SHAIE, (Black, broken)	01 8 <u>m</u> 8861 0 <u>m</u>
SHALE, (Black, fairly compact,	
slicksided) "	31 6 <sup>th</sup>
SHALE, (Very soft, broken)	01 511 8901 011
SHALE, (Compact in part, in part broken, Fractured	•
coaly marks, slickens)	10' 0" 900' 0"
handed over to W.H. White	

"Joseph T. Mandy" Mining Engineer.

## MERRITT DIAMOND/DRILLING

## LOG OF HOLE No. 1, (Continued)

Description	Thickness	Depth			
Sandstone (Grey; coaly marks, shale streaks)  Bed dip - 120	10, 0,	7081 OH			
Sandy shale (Coaly marks, compact actual 1, 8, SHALE, (Dark sandy, coaly streaks)	21 6m(?)				
actual 3' 2" (Note - Grinding in core tube)	51 6"(?)				
SHALE, Black; coaly streaks, soft, broken) actual 0' 9" SHALY, sandstone (Grey) " 3' 8" SANDY SHALE " 0' 5"	21 0 <sup>th</sup> (?)	718 · 0 ·			
SHALE (Dark grey, fractured crushed, broken, slickensided/ Actual 5' 4" SHALE, ("" "Compact) SHALE. ("" broken)	51 91 81 01 91 01 11 01	7281 0# 7361 0# 7451 0# 7361 0#			
SANDY, shale, (Sandy Pockets; coaly marks; shale streaks vertical and steep angles, cross-bedding; limey, fractured		190.0			
slickensided)  SHALY SANDSTONE ( " " " " " " " " " " Broken)  SHALY SANDSTONE ( " " " " " " " " " " " " " " " " " "	101 011 101 Q11 21 411	7561 011 7661 011 7681 411			
actual 1' 8"  SHAKY SANDSTONE (" ") Astual  SHALY SANDSTONE (" ")  SHALY SENDSTONE (" ")	41 811 101 011 81 011 41 611 51 611	7731 0 <sup>11</sup> 7831 0 <sup>11</sup> 7911 0 <sup>11</sup> 7951 6 <sup>11</sup> 8011 0 <sup>11</sup>			
£ LY SANDSTONE ( " ")	٠٠٠ <del>١</del> ٠٠	001, 0			

"Joseph T. Mandy" Mining Engineer.

# PROGRESS REPORT - MERRITT DIAMOND DRILLING Feb. 22nd to 24th.

Feb. 22nd:

Pulling Casing (Day Shift Only - 8 Men)

Feb. 23rd:

Pulling stand pipe and preparing for move (one Shift - 7 Men)

Feb. 24th:

Not working.

William H. White
Assoc. Mining Engineer.

## PROGRESS REPORT - MERRITT DIAMOND DRILL HOTE #1

#### Feb. 19th to Feb. 21st.

Night Shift: Cored 964' - 968'; 968' - 978' Graveyard Shift: Cored 978' - 988' Feb. 19th:

Cored 988' - 925' END OF HOLE Pulling rods and casing Feb. 20th: Day Shift:

Night Shift:

Pulling casing ( 8 Men) Feb. 21st: Day Shift:

No Night Shift:

## PRO GRESS REPORT. MERRITT D.D. HOLE #1 - FEB. 17th to 19th

Cored 924 - 928: 928 ~ 932 # 932 - 942 Feb. 17th: Night Shift:

Graveyard :

Feb. 18th: Day Shift:

Cored 942 - 952 952 - 957 957 - 960 Night Shift: Graveyard:

Day Shift: Cored 960 - 964; Drilling. Feb. 19th:

Progress is slew due to blocky ground and short pulls, but core recovery is satisfactory.

"VM. H. WHITE"

William H. WHITE. ASSOC. Mining Engineer.

#### MERRITT DRILLING

#### PROGRESS REPORT - Feb. 16 - 17th .

Feb. 16th - Day Shift: Cored 890 - 900

Night Shift: # 900 - 910 Graveyard: # 910 - 915

Feb. 17th - Day Shift: Cored 915 - 920; '920 - 924 Pump trouble remedied.

A new type of bit was tried on Feb. 17th. This has the water holes entering the inner surface of the bit about in up from the cutting edge, the object being to allow a build-up of pressure if the bit becomes blocked. The block at 924' was quite definite; the pressure increase caused the overflow valve on the pump to release. However, this cannot detect blockage and grinding in the core-tube, because the mud circuit does not pass through the tube.

The "Altamud" system appears to accomplish it's chief
purpose of preventing caving, though it is doubtful if it affects
core recovery one way or the other. The use of "Altamud" slows up
drilling to some extent because of more frequent break-downs of
pumping equipment, difficulty of handling muddy rods, and the necessity of periodically diluting or replacing the mud circuit. The mud
has not been found a serious hindrance in examining the core.

Mr. Johnson expects trougle with the drill rig if this hole is continued to 1500. According to him, he was told to make the set-up for a 600 hole, which he did. The foundations were laid on frozen ground and no mud-sills laid to anchor it. Now, with the ground thawing, and with over twice the string of rods that he figured on. Mr. Johnson is doubtful about the foundations holding.

Attached hereto is the log from 900' to 924'.

W.H. White, Assoc. Mining Engineer.

#### MERRITT DIAMOND-DRILLING

## Progress Report - Feb. 12th - Feb. 16th (Noon)

cored 801 **811.** Feb. 13th - Day Shift -811 • 821. Night 831; 831 - 834. # 821 **-**Graveyard n 834 -836; 836 - 840; 840 - 850 Feb. 14th - Day Shift -\* 850 **~** 856; 856 - 864. Night " -# 864 **-**869 Graveyard -

Feb. 15th - Day shift - Thickening mud to stop caving above 864.

Rods down to 6" of bottom. Cored 869 - 878.

Night " - cored 878 - 886.

Graveyard - # 886 - 890

Feb 16th - Day shift - " 890 - 900.

Feb. 16th - Handed over to W.H. White.

"Joseph T.Mandy"

Mining Engineer.

## MERRITT DIAMOND-DRILLING LOG OF HOLE NO. 1, CONTINUED

## CORRECTION

	DESCRIPTION	THICKNESS	DEPTH
C	Shale (Dark, sandy in part)  Shale (Dark, sandy in part, crushed)  Sandstone, (light grey, limey)  Shale, (Black, broken, slickensided)  Shale (fractured, limey)  Retual	31 10" 2" 31 3" 11 7" 41 9"	900 <b>፣ 0</b> #

"Joseph T. Mandy"

Mining Engineer

#### MERRITT DIAMOND-DRILLING

#### PROGRESS REPORT FEB 9th - Feb 12th

Feb. 9th - Day shift - Engine arrived by express. Installing engine: Running-in engine.

" " Night " - Drilling; cored 698 - 708

Graveyard - Cored 708 - 718

Feb. 10th - day shift- Cored 718 - 728.

(

Note - Core loss between 708 - 728 thought possibly due to wash at grind-ing edge of mad bit.

Dropped Altamud circulation and resumed water circulation test for improved core recovery.

Night Shift- Cored 728 - 736; 736 - 746.

Note - Noted caving at 682 after last core pull.

" Graveyard - Broke brakehandle bolt when letting rods down.

Feb. 11th - Day Shift- Repairing brake handle. Preparing mud circulation for resuming Altamud circulation. Drilling.

Feb. 11th - Night " - Core 746 - 756; 756 - 766.

" llth - Graveyard - Rods plugged in hole 8' from bottom.

Feb. 12th - Day Shift - Cored 766 - 773

Feb. 12th - Night shift - Cored 773 - 791

" 12th - Graveyard - Cored 791 - 801.

"Joseph T. Mandy"

Mining Engineer.

#### LOG OF DRILL HOLE #2 - MERRITT, B.C.

Located on N.E. Quarter Section 14, Tp 91, 1233 from hole #1 in Direction 088 True. Elevation 2022 Hole started 27/Feb./46.

Boulder clay, with some sand and gravel beds	1501	150* 164*
SAND, loose, coarse, undecomposed	141	1641
Gravel, with very little interstital sand	141	1781
Sand, loose, coarse, with layers of coarse grave	1 1515	1931
Sand, fine, with few large boulders	101.	2031

BEDROCK	hicknes Mi		Core			
SANDSTONE, weathered and broken		Ou	71	10"	2111	Out
SANDSTONE, grey, compact, poorly sorted		-	-	-		-
medium to coarse grained witha	•					
few thin shaly streaks. Dip 140	41	9n		•	215'	9"
CONGLOMERATE, fine grained. Abrupt Contact.	01	6n		•	215' 216'	3 <b>n</b>
SHALE, black, fissile, coaly streaks, becoming	g .		•		-	
sandy at the bottom	21	O <sub>jj</sub>		•	218:	3 <b>n</b>
SANDSTONE, grey, variable texture from fine	-	_				-
to very coarse, Irregular bedding	. 21	6 m		-	2201	<b>9</b> 11
CONGLOMERATE, fine grained. Abrupt Contact.	11	8 #		-	2221	OB
SHALE, light grey, sandy, coaly twigs	11	7 n		-	2231	7 ta
SANDSTONE, grey, fine even grain, massive		311		-	2241	10"
SANDSTONE, dark grey, fine grained, thin bedd	ed					
with dark laminges dipping irregula	ar-					
ly from 8 to 18°	41	On		-	2281	10 <b>"</b>
SANDSTONE, light grey, med. to coarse. Massiv	e 21	511		-	2311	3H
SHALE, grey, sandy		5#		•	2311	8#
SHALE, black, coal marks		4 n	01	611	2331	
SANDSTONE, light grey, coarse, friable	_	411	-		2371	
CONGLOMERATE, fine grained, poorly sorted		On		_	2391	
SANDSTONE, light grey, coarse, friable		8 n	11	6#		On
DWINDIONE, TIPE PLOS, OCCUPA, TITUTE	•				-	

NOTE:

This sequence of sandstone, shale, and conglomerate is similar to, although not identical in detail with that occurring in Hole #1 at 375' depth, which is 85' above the first coal seam. Projection using the assumed attitude indicates approximately the same horizon in the two holes. If the apparent equivalence is a fact, coal should be cut in Hole #2, at a depth of about 320'.

"Wm. H. White"

"Wm. H. White Assoc. Mining Engineer.

## LOG OF MERRITT DRILL HOLE #2, Continued

SANDSTONE, grey, medium to fine grained	_	2# 10#		-		244† 245†	
SHALE, grey, sandy SANDSTONE, dark grey, medium to fine grained, thin-bedded showing cross-bedding and channelling	-	. 2*		_		251	
SANDSTONE, light grey, coarse, massive bedded, friable, containing two 1/8" coal	•	<b>-</b>				-/-	_
seams, and grading downwards into conglomerate	81	10 <b>m</b>		•		260*	On
CONGLOMERATE, fine grained, scattered coaly material	91	Oa _		-		2691	
SANDSTONE, fine grained, few shaly streaks		Où		4#		2701	
SHALE, grey, compact	41	8 ii	21	8 ii		2741	Qü
SHALE, black, compact, many coal streaks.  Dip 22	11	5 <b>i</b>	•	•		2761	1 m
SANDSTONE, dark grey, fine grained, shaly	31	11 n		-		2801	
SHALE, grey, sandy	01	9" -		-		2801	9 <del>i</del> i
SHALE, black, fissile, coal marks and coal streaks Dip 140	31	3 <sup>m</sup>				2841	On
SHATE, black, fissile, coal marks and coal streaks Dip 180	21	6 <b>11</b>		-		2861	611
SANDSTONE, dark grey, micaceous, shaly Dip 190		Où.		-		2891	
SHALE, grey, sandy	21	On		-		291	
SANDSTONE, dark grey, shaly		2"		-	0 **	2921	
SHALE, dark grey, coal marks, broken	_	4 <sup>11</sup>			8"	2941 2981	
SHALE, grey, compact, becoming sandy	41	0 ii	UT	6 <b>n</b>		2901	0
SANDSTONE, dark grey, fine grained, thin bedded, somewhat shaly. Dip Variable 5 to 20	51	5 <b>n</b>		-		3031	2".
SANDSTONE, light grey, medium to coarse, massive	21	10 <b>n</b>	01	3 <b>n</b>		3061	$0_{11}$

"Wm. H. White"

## LOG OF HOLE #2, Continued

	SANDSTONE, light grey, medium to coarse, massive SHALE, black, compact, few coal streaks SHALE, jet black, compact, with numerous coal		3 ii 0 ii		3121	9 "
	streaks making up to 25% of the core.  Dip 140	21	1"	•	3141	10n
	SHALE, black, compact, few coal streaks SHALE, grey, sandy	11 01	8ú 5ú	0145"	316° 316°	8 ii O ii
	SANDSTONE, dark grey to grey, fine grained, thin- bedded with thin shaly partings. Some cross-bedding. Dip and strike	•	-			
C	variable SHALE, dark, compact, coal marks SANDSTONE light grev. coarse	221	0π 3π 5π	-	338; 339; 340;	JJ:
	SHALE, dark to black, compact, coal marks and few coal streaks. Dip 18 SHALE, grey, sandy	61 11	6 й О и 8 и	01 6#	347' 348' 351'	Õμ
	SANDSTONE, dark grey, shaly bands SANDSTONE, light grey, medium to coarse grained,  Massive bedded SHALE, dark grey, sandy SANDSTONE, dark grey, shaly	191 11	2 <sup>n</sup> 4 <sup>n</sup> 0 <sup>n</sup>	<b>***</b>	3701 3721 3731	8n 0n
	SHALE, dark grey, sandy SANDSTONE, dark grey, thin bedded with shaly streaks SHALE, dark, compact	21	3"	•	377: 381: 382:	9# 0#
	SHALE, grey, sandy, SANDSTONE, dark grey, shaly bands and streaks  Dip 15	4. 4.	04	<b>-</b>	3861	0 <u>u</u>

"Wm H. WHITE"

## LOG OF DRILL HOLE #2 CONTINUED

SANDSTONE, dark grey, shaly	11	Ou	•	38 <b>7</b> 1	Q
SANDSTONE, grey, medium grained, faulted	-			-	. (4)
contact with underlying shale dips 45°	71	$0_{\rm u}$	-	394 <b>'</b>	$0_{n}$
SHALE, grey, sandy, broken	įı	Ou	*	3951	Οü
SHALE, grey, Numerous talcose shear planes	-				
and gouge filled fault planes dip-	-				
ping about 45°	51	Oa	_	4001	Oπ
SHALE, grey. Broken in all directions by many				T	- ·
ourved talcose shear planes	71	On	_	407	Ou
SHALE, Grey. Very broken, in part finely	•	•	~	401	•
comminuted. Abrupt faulting contact	-	٠			
	7:	611		4101	6n
with sandy shale below	?:	Οŭ	-	410	6,
SHALE, grey, sandy, compact.	т.	O.	-	411'	0
SANDSTONE, grey, fine grained, thin-bedded, with		<u>.</u>			<i>C</i> =
few shaly partings Dip 9	101	On	-	4211	·On
	<u>-</u> آ				<u></u>
SANDSTONE, light grey, medium grained, massive	61	On	•	4271	Oπ
SHALE, grey, somewhat broken but not sheared.	-			-	
One fault plane dipping 45°	7:	6m	-	4351	On
SANDSTONE, dark grey, fine grained, some shaly	• •				•
streaks	21	1"	•		
SHALE, dark grey, sandy	21	<u>8</u> #		4391	дn
SANDSTONE, dark grey, shaly		8#		4421	5"
SHALE, dark grey, sandy	_	Oil		4431	
	_	Οü		4441	ร์#
SANDSTONE, dark grey, shaly		10		4461	Źπ
SHALE, dark, somewhat sandy		6"		4481	9"
SANDSTONE, dark grey, shaly streaks Dip 10°	۷,	0	, 🕶	440.	9"
CONTRACTOR Company law hands - Immonwlaw				*	
SANDSTONE, grey, few shaly bands. Irregular	^•	6 22		458	7.17
Bedding	_	6"		428	3"
SHALE, dark, slightly sandy, very compact.	101			4681	
SHALE, finely orushed in fault zone	11	3"		4691	
SHALE, grey, sandy, compact		7#		4691	
SANDSTONE, light grey, medium grained		2 <u>"</u>		4701	
SHALE, dark, slightly sandy. Few streaks of sand	41	4"	-	4741	7n
SANDSTONE, dark grey, fine grained, shaly		5#		4761	Оu
The second secon		-		•	

"Wm. H. WHITE"

## LOG OF DRILL HOLK #2, Continued

	SANDSTONE, dark grey, fine grained, shaly SHALE, dark grey, slightly sandy, many coal streaks	2!	6#		-	4781	6 <b>*</b>	
		21	4*		-	4801	104	,
	SANDSTONE, light grey, medium to coarse grained		6n		-	4861	4=	
	SHALE, grey, sandy, few coal streaks SANDSTONE, grey, variable texture from fine to coarse irregular cross-bedding.	•	6"	•	-	4901		
	Abrupt contact with underlying shale SHALE, dark grey, slightly sandy, compact SANDSTONE, dark grey, shaly Dip 50	101 121	211	11	-0#	500 t 513 t 514 t	O# .	
	SANDSTONE, grey, medium grained	21	<b>D</b> n		-	5161		
<b>-</b> \	SHALE, black, fissile, few coal streaks Dip 90	01	 17 <b>0</b>		· <b>_</b>	5171	On	
	SANDSTONE, dark grey, shaly	2,			_	5191		
	SANDSTONE, light grey, coarse, cross-bedded SANDSTONE, dark grey, shaly	21 11	0#		-	5211 5221	On	
	SHAIE, Black fissile, leaf impressions, coal streaks	41	1"	•	-	5261	1 8	
	SHALE, grey, sandy, few coal streaks SHALE, dark grey, finely shared in part, few	21	On	01	-6n	5281		
	coal streaks	31	,	11	~0 <sup>11</sup>	531		
	SANDSTONE, dark grey, shaly	21 21		Ω₩.	<b>~</b> 3 <b>n</b>	5341 5361	On On	
	SHALE, Dark, sandy, few coal streaks SANDSTONE, dark, very shaly, several coal	۲,						
	streaks	21	6u		-	5381	6n	
	SHALE, dark, sandy streaks, coal marks Dip 10°	71	811	11	6n	5461	211	
	SANDSTONE, grey, medium grain, few shaly partings	71	4n		_	5531	6 <b>ir</b>	
	SANDSTONE, light grey, coarse to very	-	<del></del> 2			5534		
Ę	Coarse, friable (Borderline of fine conglomerate)	91	911		-	5631	3 <b>11</b>	
	SHALE, grey, sandy		611		,=	5641	911	
	SANDSTONE, dark grey, medium to fine grained	151	2 株			5791	77 "	
	with numerous shaly bedding planes SANDSTONE, light grey, coarse		10 <b>"</b>			5861	9"	
	SANDSTONE, dark grey, fine grain, shaly	11	On		_	581*	Qti	
	partings CONGLOMERATE, fine grained, friable, with indistinct bands of coarse sand-	Τ,			_	701		
	stone, and two 1" Shale bands, and							
	several coal streaks which vary in dip from 00 to 100	11,	3 <sup>11</sup>		-	5931	On	
	SANDSTONE, light grey, coarse, few coal streaks DIP 10	341	OĦ		~	6271	On	
,	CONGLOMERATE, fine		0n		-	6301		
	SANDSTONE, light grey, very coarse, friable	21	On		••	6321	0"	

"Um. H. White"

## LOG OF HOLE # 2, - Continued

Sandstone, light grey, coarse to very coarse, with		•			
irregular conglomerate beds	11,	3#	-	6431	3#
SANDSTONE, dark grey, shaly	0.1	9,11	<b>-</b>	6441	
SHALE, dark grey, sandy, compact	4.1		-	6481	6#
SHALE, black, containing two 1" Coal seams and				-	•
several thinner coal streaks	21	011	01 411	650 1	6 n
COAL, boney	01	3"	01 1	650	
SHALE, grey, sandy, with coal marks		74	01 1#	651 W	
COAL, bright, hard, with two-way cleat	21	8 ú	$1:\overline{7}^n$	6541 (	
COAL,	01	4"	01 2m	6541	
SHALE,	01	3"	. <b>.</b> .	6541 '	
COAL,	01	3#	01 1"	6541	
SHALE,	01	Į¤	•	6541	11ª
COAL,	01	3#	~ O' 1毫m	6551 8	211
SHALÉ,	01	2#	<b>-</b> ~ .	6551	4#
COAL, bright, hard, narrow streaks of bone	1*	8 m	O1 8#	6571 (	
SHALE, grey, sandy	01	9#		6571	911
COAL, boney, with numerous thin streaks of shale	2.5		01 7#	6591	11.
SHAIE, dark grey, sandy	11	-8"	_	661 u	7"
SANDSTONE, light grey, very coarse	21	8# 1	-	6641	317
CONGLOMERATE, fine, with indistinct beds of			••		
coar_se sandstone, and scattered larger			,		
peb <b>bles</b>	31	9"	· 😁	668•	0u
SANDSTONE, light grey, very coarse	21	O <sub>28</sub>	**	6701	$0_{11}$
CONGLOMERATE, fine to medium-grained	11	On	<b></b>	6711	O 22
SANDSTONE, light grey, very coarse	21	Oit	_	6731	O <sub>11</sub>
CONGIOMERATE, fine to medium-grained with a few				• •	
scattered pebbles up to 2", and with			<del>-</del>	-	-
indistinct beds of coarse sandstone	41	Oπ	_	677 1	Ota
			_		

"Wm. H..White"

## LOG OF HOLE # 2, Continued

	SANDSTONE, light grey, coarse CONGLOMERATE, medium grained		9 ii Ou			6791 6791	
	SANDSTONE, light grey, coarse with few large pebbles	9î	Oņ	-		68 <b>8</b> 1.	6 n
	CONGLOMERATE, medium to coarse grained several coal streaks	_		-21		6941	
	SHALE, grey, sandy, compact, few coal marks SANDSTONE, dark grey, shaly	21	0#	- ·		6981 7001	Out
	SANDSTONE, grey, fine to medium grained SHALE, grey, sandy, few coal streaks			n-		7201	_
	SHALE, grey, sandy, with irregular steep	2	8 <b>n</b>			721'	8 <b>=</b>
c	bedding COAL, hard, bright		2# 2#	- ^	1-14	7251 7261	0 u
	SHALE, grey, sandy, one 4" Coal Seam	01	6 n	••		7261	6 n
	SANDSTONE, dark shaly, irregular bedding SANDSTONE, grey, fine even grain			-		7321	
	SANDSTONE, light grey, coarse to very coarse. Rude bedding dips from 100 to 350.	161				7491	
	CONGLOMERATE, fine Grained CONGLOMERATE, medium grained	11	Ou	-		7521	611
	SHAIE, light grey, few coal streaks DIP 37° SANDSTONE, dark grey, shaly streaks. Shows				7	755	
1	irregular cross-bedding	51	4 tr	**		7611	O.

## LOG OF HOLE #2, Continued

	SANDSTONE,	Dark grey, shaly. Numerous inter- calated bands of sandy shale. Dip variable 0° to 20°	11.	6п	-		7721	6n
	SANDSTONE,	almost white in colar, thin- bedded, mostly fine-grained with	-	•			-	-
		thin dark bedding planes having						
		variable dips at low angles	201	6 n	_		7931	On .
	SANDSTONE.	dark grey, shaly	8,	On	-		7931 8011	On
		grey, broken, in part finely	_		•			
		sheared. Many carbonate stringers	51	O m	21	On	8061	Om
	SHALE, dark	grey, sandy	11	8 11	-	-	8061	8 11
		dark grey, shaly	31	4 n	-		811' 811'	Oia
<u>~</u> .		grey, sandy, few coal streaks	01	611			8111	6ñ
		dark grey, shaley	11	4 n	-		8121	-10m
	SHALE, grey	y, sandy, with sand-filled mud	-					
	, 0	cracks. Few Coal Streaks	91	2 n	**		8221	Out
		dark grey, shaly	Öt i	8 #	~	•	8221	8 #
		to black, compact, indurated	-	-				
	,	having a false cleavage at 450.			,	,		
		few carbonate seams	81 .	4 n	-		8311	On

"Wm. H.White"

X

## LOG OF HOLE # 2, Continued

SHALE, grey, sandy with sand lenses, few coal st	31	Ou		8341	
SANDSTONE, light grey, Medium even grain SANDSTONE, grey to dark grey, fine-grained, thin-bedded, shaly with several	41	6# -	•	8381	6 <b>n</b>
shale bands.  Dip 230, Fairly regular	141	611	11-04	8531	04
SANDSTONE, finely crushed, with much gouge in fault zone SHALE, black, many coal streaks Dip 380	41	Çn On	11 6n 01 4=	8571 8581	0# 0#
SANDSTONE, grey, fine-grained, somewhat broken	-		11 0"	-	
SANDSTONE, grey, shaly, crushed and faulted zone	•		1: 8m	•	
SANDSTONE, light grey, fine-grained, compact except in narrow crushed zone at		÷	-		,
875. Calcite Strs. SANDSTONE, grey, fine-grained, shaly bedding	_	3 <b>n</b>		8761	
planes. Variable dip at low angles SHALE, grey, sandy, few coal streaks	_	0 <b>n</b>		878 <b>1</b> 879 <b>1</b>	
SHALE, grey, sandy, lew coal streaks SH ALE, dark grey, few coal streaks Dip 150 COAL, very boney (nearly half black shale)		11		8791	
Sheared.	1,	0 <b>11</b>	01 3#	8801	ii.
SHALE, grey, sandy, few coal streaks, In		- H	04 74	00 = •	O ##
part finely crushed SHALE, black, few coal streaks. Finely	41	Τ.,,	2" 3"	8851	0"
crushed	01	811	01 3#	8851	8 m
SHALE, grey, compact, few coal streaks Dip 450	11	Ou.		8861	811
SHALE, black, numerous coal streaks up to thick comprise nearly half the	•			e e	
core. Coal streaks dip about 50°, and shearing evident parallel to the bedding.	01	10'	" O' 1'	8871	6 <b>n</b>
SHALE, black, several coal streaks up to 1/4" Thick. Severely sheared, in part finely cominuted.	21	911	1; 0 <b>n</b>	8901	3"
COAL, very boney (nearly half black shale). severely sheared, in part finely	•				
comminuted				8911	
SHALE, grey, sandy, compact.	Τı	۷"	01 2"	072	Oµ

"Wm. H.White."

## LOG OF HOLE #2, Continued

	54	•••	8941	5 <b>4</b>	
SANDSTONE, grey, medium grained, shaly	a ñ		000:	-	
	O#	-	8981	<b>ク"</b>	
SANDSTONE, light grey, medium to coarse grained. Few carbonate stringers	Ŕŧ	7 11		9071	O#
SHALE, Grey, sandy			<u> </u>	9081	
SHALE, dark, sheared, few coal streaks	21	9 1	_	9101	
SHALE, black, sheared, many coal streaks.		-			
<u>Dip 320</u>	T	ク"	-	9121	3"
SHALE, dark, compact	11	0	! -	9131	3 <b>n</b>
TUFF, light colored, fine grained, coal		/ .			0 H
marks CONGLOMERATE, Volcanic fragments, medium to	_	6"	·	9141	9"
coarse grained. Dip 250	111	7:		9261	4 n
SHALE, dark, compact, coal marks	01	Śŧ	-	9261	
BRECCIA, medium to fine grained volcanic			_		
Frags.	21	31	t	9291	Om
VOLCANICS, probably basalt, finely por- phyritic	31	61		9321	611
VOICANICS, greenstone, fine grained, dark		٠,		7,76	
green, in part brecciated or					
pillowed	81	6	t	941'	Om
SANDSTONE, metamorphosed, with biotite and	Z e	01	r	9441	O#
feldspar developed	יכ	Û.	•	774'	<b>U</b>

END OF HOLE

#### FINAL PROGRESS REPORT - MERRITT DRILL HOLE #2, - April 15 - 17th

April 15th - Night Shift:

8931 to 9031

April 16th - Day Shift :

903\* to 913\*

Night Shift:

9131 to 9231

April 17th - Day Shift: Night Shift: 9231 to 9371

937!-944!. Pulled rods in 10's.

HOLE COMPLETED

## PROGRESS REPORT / MERRITT DRILL HOLE #2 - April 12th to 15th

April	12th:	Night Shift:	Cored	8311	to	8381
April	-	Day Shift : Night Shift:	Cored	848	to	8581
April	14th:	Day Shift: Night Shift:	Cored Cored			
April	15th:	Day Shift :	Cored	8791	to	8931

"Wm. H. White"

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#### PROGRESS REPORT - MERRITT DRILL HOLE #2

#### April 10th to 12th

April 10th - Night Shift: Cored 764' to 784'

Graveyard: Cored 7841 to 8011

April 11th - Day Shift: Cored 801' to 811'
Night Shift: Cored 811' to 818'

Night Shift: Cored 811' to 81 Graveyard: Not working:

April 12th - Day Shift : Cored 818' to 831'

NOTE: Due to labor shortage, work will continue temporarily on a basis of two ten-hour shifts per day.

"Wm. H. White"

## PROGRESS REPORT - MERRITT DRILL HOLE #2, - April 8th to 10th

April 8th - Night Shift: Graveyard:	680' to 700" 700' to 716!
April 9th - Day shift: Night Shift: Graveyard :	716' to 726' 726' to 737' 737' to 752'
April 10th. Day Shift:	7521 to 7641

## PROGRESS REPORT - MERRITT DRILL HOLE #2, - April 7th, - 8th

April 7th - Day shift: Night Shift:

Cored 632! to 638! Cored 638! to 647! Cored 647! to 667!

Graveyard :

April 8th .- Day Shift :

Cored 6671 to 6801

"Wm. H. White"

## PROGRESS REPORT - MERRITT DRILL HOLE #2, - April 3rd to 6th

April 3rd, -	Night Shift: Graveyard:	Cored 472! to 486! Cored 486! to 497!
April 4th, -	Day Shift: Night Shift: Graveyard :	Cored 497' to 510' Cored 510' to 523' Cored 523' to 542'
April 5th, -	Day Shift: Night Shift: Graveyard :	Cored 5421 to 5531 Cored 5531 to 5681 Cored 5681 to 5831
April 6th, -	Day Shift: Night Shift: Graveyard :	Cored 583' to 593' Cored 593' to 613' Cored 613' to 632'

"Wm. H. White"

## PROGRESS REPORT - MERRITT DRILL HOLE # 2, - April 1st. to 3rd

April 1st. - Day Shift: Cored 387! to 405!
Night Shift: Cored 405! to 426!

April 2nd. - Day Shift: Cored 426! to 430! Mixed fresh mud.
Night Shift: Cored 430! to 436!
Graveyard: Cored 436! to 436!
Cored 436! to 436!
Cored 456! to 472!

"Wm. H.White"

## PROGRESS REPORT - MERRITT DRILL HOLE #2 - Mar. 30th to Mar. 31 st.

Mar. 30th:

Day Shift:

Cored 326' to 346' Cored 346' to 375!

Night Shift:

Mar. 31st.

ĺ

Day Shift: Night Shift: Cored 375' to 387'

Not working

"Wm. H. White"

## PROGRESS REPORT - MERRITT DRILL HOLE #2, - 27th Mar. to 29th Mar.

Mar 27th - Night Shift:

Cored 253' to 274'

Mar. 28th - Day Shift:

Cored 2741 to 2891

Night Shift:

Cored 289' to 295' (Got Rods Stuck in

Mar. 29th - Day Shift:

Cored 296' to 302' (Pump Trouble

Remedied)

Night Shift:

Cored 3021 to 3261

"Wm. H. White"

## PROGRESS REPORT - MERRITT DRILL HOLE #2, - Mar. 25th to Mar. 27th.

Mar. 25th - Day Shift:

Pulled casing and confirmed BEDROCK at 2031

Drove pipe to 2031.

- Night Shift:

Drilled casing down to 213' in loose and

broken sandstone.

Mar. 26th - Day Shift:

Cored 211 - 217. Rearranged drilling set-

up.

Night Shift:

Setting up equipment for using mud.

Cored 2171 - 2241

Mar. 27th - Day Shift:

Cored 224 to 243' up to 6 P.M.

NOTE: Starting Mar. 27th two 12 hour shifts per day will operate.

## PROGRESS REPORT - MERRITT DRILL HOLE #2, - Mar. 20th to Mar. 24th.

Mar. 20th - Day Shift Only: Washing sand and gravel out of pipe

Drilling casing to 195° in sand and

fine gravel.

Mar. 21st - Day Shift: Driving pipe to 193' where it was stopped

by a layer of larger boulders.

Night Shift: Washing sand out of pipe, trying to chop

boulders ahead of pipe.

Mar. 22nd - Day Shift: Drilling casing down to 202' in fine sand

with large boulders, some of which were

shale with coal streaks.

Night Shift: Attempted to blast thru casing but had a

mis-fire probably due to hole caving and short-ing leads when casing was drawn back. Remainder of shift spent chopping

out the hole again.

March. 23rd - Day Shift: Drove pipe to 198!

Night Shift: Drilled casing ahead to 208. In the last

five feet the ground was hard and smooth with fine grey clayey mud cuttings coming back - indicates either bedrock or a clay

hard-pan.

Mar. 24th - Neither Shift Working.

(

NOTE: Progress of 123', from depth 75' to 198' required 24 Shifts,

exclusive of time wasted on testing Blanc Method.

Progress of the last 12' required 6 Shifts. The slow advance has been due to the hole caving ahead of the pipe and the necessity in consequence of frequent chopping.

Assoc. Mining Engineer.

"W. H. White"

## PROGRESS REPORT - MERRITT DRILL HOLE #2, Mar. 15th, to 19th.

March 15th. - Day Shift of 6 Men
Installing mud equipment for 'Blanc Method'
No progress.

March 16th. - Day Shift of 6 Men
Installing mud equipment and testing 'Blanc Method'. No progress.

March; 7th. - Day Shift of 5 Men
Testing 'Blanc Method'
No progress.

Mar. 18th. - Day Shift of 5 Men

Most of the day spent removing mud equipment
preparing to resume driving operations, and
in jaring the pipe loose. During the last
two hours of the shift the pipe was driven 2
feet, in ground that had been drilled before
the Blanc experiment was made.

Mar. 19th. - Day Shift of 5 Men
Pipe driven to 186 in Coarse sand and gravel.

NOTE: Due to the difficulty of turning the pipe while driving, and the shortage of crew it is possible only to run one shift per day.

"W. H. White"



## PROGRESS REPORT - MERRITT DRILL HOLE #2, - Mar. 12th to 14th.

Mar 12th - Day Shift: Drilled casing to 177 Feet.

Drilled core barrel down to 181 feet

in coarse gravel.

Night Shift: Re-threaded 4" Casing to be used as

standpipe.

Mar. 13th. - DayShift: Removed all casing; fixed waterline which

was frozen; and prepared to resume

driving pipe.

Night Shift: Not working (3 Men off sick)

Mar. 14th. - Day Shift: Drove 4" Pipe to 178 Feet (4-man crew)

Night Shift: Not working.

"Wm. H. White"

## PROGRESS REPORT - MERRITT DRILL HOLE #2, - MAR. 10th and 11th.

Mar. 10th - Day Shift: Night Shift: Drove pipe to 164' in Sand

Not working.

Mar. 11th - Day Shift:

Drilled casing down to 170

Gravel

Drilled core-barrel down to 175'

ilanet

Night Shift:

Drilled core-barrel down to 1771

"W. H. White"

## Merritt Diamond Drill Hole #2

### Progress Report - Mar. - 7th to Mar. 9th, Inclusive

Mar. 7th - Day Shift: - Changed pump in forenoon.
Drilled to 132' and blasted - Boulder clay.

Night Shift: - Drove pipe to 1321.

Mar. 8th - Day Shift: - Drovepipe to 138' - Boulder clay.
Night Shift: - Drove pipe to 149'- Boulder clay.

Mar. 9th - Day Shift: - Drovepipe to 159' - Material is medium to coarse sand with some pebbles.

(7 Men required on this shift to turn pipe while driving; the sand seems to bind the pipe)

Night Shift: - Not working.

(

"Wm. H. White"

## PROGRESS REPORT - MERRITT DRILL HOLE #2, - March 4th to March 6th

Mar. 4th - Day Shift: Night " Drove pipe to 76' in clay (Depth 75' at Noon)

Mar. 5th - Day Shift: Night " Drove pipe to 96' in Clay and gravel
" " 106'in mostly gravel

Mar. 6th - Day Shift:

(

Drove pipe to 116' in clay, some boulders. Drilled to 126' in clay and gravel

Night "

Driving pipe to 1261

"Wm. H. White"

## PROGRESS REPORT of MERRITT DRILL HOLE #2

## 27/ Feb. to 3/March

- 27/Feh. Day Shift: Collared Hole #2
  Night Shift: Drove 6" Pipe Depth 30' in clay
- 28/Feb. Day Shift: Driving 4" Pipe Night Shift: " - Depth 45' in Boulder Clay
  - 1/Mar. Day Shift: Driving 4" Pipe
    Night Shift: " Depth 55' in Boulders and
    gravel beds.
- 2/Mar. Day Shift: Driving 4" Pipe- Depth 65' in coarse sand Night Shift: no working.
- 3/Mar. Day Shift: Not working.
  Night Shift: Driving 4" pipe

"Wm. H. White"

## LOG OF #3, HOLE

Approximate Position: 760 feet on a line bearing 330° True from the Southeast corner of Lot 120 2420!

	Thickness Core Depth				
		Mis	sing		
STREAM WASH BEDROCK, very decomposed apparently sandy shale		Ou On	33" O"		O <sub>24</sub>
SHALE, grey, sandy, coal marks, Soft decom- posed.		0 <b>n</b>	•	41 1	On
SANDSTONE, grey, shaley with coal marks soft, decomposed. Dip 15 to 22	-	•			•
Degrees	_ 11	7 u	-	421	7**
SANDSTONE, light grey, coarse, friable CLAY, probably ground up decomposed shaley	0!	9 m	••	431	_
sandstone	61	8 11	51 0"	50 t	On
SHALE, light grey, sandy, soft and clayey		2"	63	551	2 <b>n</b>
SHALE, dark, with leaf molds and coal streak	s lt	411	_	561	6"
SHALE, black, sheared, in part finely pul- verized containing carbonaceous	-		,		
material		34		561	
SHALE, dark, soft	01	4 **	***	571	Ía
SHALE, black, sheared, in part finely pul- verized containing carbonaceous		-	-		Ÿ
material		8 11	-	571	9#
SHALE, light grey, sandy, soft		Òā	•	581	
SANDSTONE, dark grey, shaley, Soft and clayer SANDSTONE, light grey, medium to coarse.	-	6#		601	-
noorly sorted. Very Triable		$0_{\mathbf{n}}$		641	_
SHALE, grev. compact, but soft and clayey		911		711	
SHAIE. light grey, sandy, soft and clayey	71	Ou		781	) O ii
SANDSTONE, light grey, medium grained.  Very soft and muddy	21	Ou	-	801	On
SHALE, dark, finely brecciated, containing				_	-
carbonaceous matrix		3"		801	
SHALE, dark, soft	ינ	Oπ	-	811	3"
SANDSTONE, dark grey, shaley, thin-bedded					
Soft and Clayey. Dip Variable but	~ .	a ii		D 4 =	10
Averages about 120	_	7"		_	10
SHALE, dark, soft	51	2"		901	$0_{\rm n}$

"Wm. H. White"

# LOG OF HOLE # 3, Continued

	•		-				
	SANDSTONE, SANDSTONE,	grey, shaley, thin-bedded, friable light grey, medium grained, friable	51	- 0 a	31 7"	951	0 <b>u</b>
		containing nodules of coal up to	51	Om .	31 9 <b>1</b> 1	1001	0=
		light grey, very coarse, poorly sorted. Contains indistinct beds of conglomerate, with several 1		O.			O#
	SHALE, dark	coal streaks	191		161 7 <sup>th</sup>	1201	67
	-	dark grey, shaley, irregular bed- ding	21	211	•	1221	8 <del>n</del>
	·	ck, fissile, leaf molds, few coal streaks		10"		1231	
	SANDSTONE,	Grey, shaley light grey, coarse-grained, poorly		4#	•	1251	
		sort_ed, friable			71 8m	121	6"
	SHALE, dark SANDSTONE,	k, with few coal streaks grey, mostly thin-bedded and	01	10"	. <del></del>	1381	4 <sup>u</sup>
		ling of coarser material, few	_	0		1454	0.00
		irregular coal streaks.  Average Dip 12°	- 61	8#	O1 8m	1451	0"
	•			<u> </u>		/-	~=
	SHALE, darl	k, soft			Ot S#	1461	
	SANDSTONE.	grey, shaley, thin-bedded	ŢΙ	7 m	🖨 🛕	1471	
	COAL hard	, clean, dull conchoidal fracture	01	Τü		1471	8 11
	SANDSTONE,	light grey, medium grain, some cross-bedding. Contains 1 streak	•	٠			
		hard coal		211		1501	
	CONGLOMERA	TE, medium to fine grained		Ōu			
	SANDSTONE.	light grey, variable coarse grain dark gey, shaley. Fine even	11	8 n	Z##	1531	9 m
	SANDSTONE.	dark gey, shaley. Fine even					
	,	grain. Soft			£1 611	1571	
	SHATE, gre	y, compact, soft	01	11*	<del></del>	1571	11 n
	SANDSTONE.	dark grey, shaley. Fine even grain.					
(		Soft k, fissile, leaf molds. Soft and	31	1"	. ••	161'	On
-	DHALIS, GGL.	muddy	- 21	4 n		1631	4 tt
	TUODSCINS	dark grey, shaley	11	8 11	_	1651	On
	SANDSTONE,	light grey, medium to coarse					
	DWINDIONE	grained	11	8"	-	1661	811
	S NOSTONE	grey, thin-bedded, shaley bands	51	0"	-	1711	811
	DWDD10m3	Dip 9°				,	-
	ለ ለአየብ፤ በእም <u>ም</u> ለ	TE, fine grain, Few coal streaks	41	4 n		1761	Ou
		grey, thin-bedded, shaley bands		Oπ		1 <i>77</i> י	
	OWING TOMES	TE, fine-grained with few larger		-		• •	
	CONGLUMBAR	pebbles. One streak of hard coal					
		near base	51	Он	-	1821	ОĦ
	CITATTO COMO		<i>-</i>	•			_
	SHALL, gre	y, sandy, few thin coal streaks.	41	Ou	11 0"	1861	O#
	A WITHOUTH A	Soft.		٩'n		1881	
1	CONCLOUND!	dark grey, shaley		Ó¤	-	1891	
	O AND OPPOSITE	TE, Fine Grained		-		/	•
	SANDSTUNE,	grey, thin-bedded showing cross-	7.1	911	-	1911	611
•	OTTATE -	bedding		Ón		1941	
	SHALE, gre	y, sandy with irregular sand lenses	)`	•	- <del>-</del>	~/~	~
	SHALE, dar	k, fissile, thin coal streaks and					

leaf molds. Dip 9° 2' 4" - 196' 10' SANDSTONE, dark, shaley, fine grained, compact 5' 2" - 202' 0"

"Wm H. White"
Assoc. Mining Engineer.

# LOG OF #3, Hole, Continued

	SANDSTONE, dark grey, shaley with narrow shale bands. Fine grained, with irregular cross-bedding.	41	6 <b>n</b>	<b>~</b>	2061	618
	SHALE, dark, compact, leaf molds and few coal streaks	11	91		2081	3 <b>"</b>
	SHALE, Grey, soft and muddy, many carbonized twig s	31	9#	-	212 •	Om
	SANDSTONE, grey, thin bedded, shaley with complete leaf molds on bedding.  DIP 12	21	2#	- ,	2141	2".
	SHALE, dark, with few coal streaks	1'	2"	•	2151	•
	SANDSTONE, grey, thin-bedded, shaley. Shows cross-bedding and channelling	21	10n	-	2181	218
	CONGLOMERATE, fine, friable			2: 8#	2221	
	SANDSTONE, light grey, very coarse, friable			ន្ទីរ 6្	2331	
	CONGLOMERATE, fine with indistinct bands of		•		-//	
	coarse sand. Friable	71	0 ii	71 6n	2401	Om
	SANDSTONE, dark grey, shaley, with shale bands.	•	-	· -		
	Much irregular cross-bedding	41	Oa	Ti Om	2441	Oμ
	SHALE, grey, compact, few coal streaks	11	C:		2451	O iii
	SANDSTONE, Grey, thinbedded, with shaley					
	bands containing thin coal streaks		6 n		2531	
	SHALE, dark, with few coal streaks		6n		2551	
	SANDSTONE, grey, thin-bedded, shaley, soft		4"		2561	
	SHALE, dark, with few coal streaks		10"		2571	
	SANDSTONE, light grey, medium grained		8#		2631	
	SHALE, dark to black, sandy lenses	ΤA	7 n	- '	2651	<b>5"</b>
	SANDSTONE, dark grey, fine grained, shaley	٠,	3.6#	• •	0/11	7 H
	Irregular bedding		10n		2671	
	SHALE, dark, Many very thin coal streaks	Ţ	4 <sup>n</sup>	===	2681	1"
	SANDSTONE, light grey, to grey. Medium to	•	-			-
•	fine grain, Shaley bedding in	10	1 0#	•	2781	7 <b>វា</b>
	places. Dip 16		· <del>-</del>		•	-
	SHALE, grey, sandy	ļ	1 911	- 10' 2"	2891	4 ts
	SANDSTONE, light grey, very coarse, friable			10' 2"	297	Oin
	SANDSTONE, grey, fine-grained, compact		Ju	ζ.	2991	
	SHALE, grey, with few coal streaks		0"		3011	
	SANDSTONE, dark grey, thin-bedded, shaley		11"		3071	
	SHALE, dark with many carbonized twigs	ΤÃ	O <sub>II</sub>	-	308†	U"
	SANDSTONE, dark grey, thin bedded, shaley					
	with beds of coarser sand.	10.	Δ#	1 + OH	Z3 Q •	∩ tr
	Dip variable 12 to 180	TOI	, O#	1' O"	3181	0"
					•	

"Wm. H. White"

## LOG OF HOLE # 3, Continued

SANDSTONE, light grey, medium to coarse grain, friable	21	6n	-	3201	6 m
SHALE, dark to black, fissile, with leaf molds.  Dip 120	01	10	· · · · · · · · · · · · · · · · · · ·	321	4 n
SANDSTONE, light grey, medium to coarse grained  SANDSTONE, dark grey, shaley, irregular bedding SHALE, grey, few coal streaks		7# 8# 10#		3231 3241 3261	7 !!
SANDSTONE, light grey, fine to medium grain. in part thin-bedded. Dip 100	101	11"	) tt "	.3371	4 <sup>n</sup>
SHALE, Grey, few coal streaks, grading to sandy shale SANDSTONE, grey, thin-bedded and cross-bedded	1† 3†	5 n	- -	3381 3421	
SANDSTONE, light grey, medium grain, Cross- bedded SANDSTONE, grey, fine even grain. Massive	_	4 n 6 n	-	3431 3451	
SHALE, dark, with few coal streaks SANDSTONE, grey, medium to fine grain, in part	21	Оц	On 9n	3471	Οú
thin-bedded SHALE, dark, grading to sandy. Contains 6" mud	-	٠.	•	3511	_
seam. SANDSTONE, grey, Med. to fine grain, in part	11	6 n	01-8"	3531	Off
thin-bedded .	21	$0_{\mathbf{n}}$	<b>=</b>	3551	On

"Wm. H. White"

## LOG OF HOLE # 3. Continued

SANDSTONE, light grey, medium to fine grain, compact	21	6 n	_	3671	611
SANDSTONE, grey, medium to fine grained, in				741	٠.
part thin-bedded. Two narrow shale bands. Dip variable, but about 150	181	<b>O</b> n	-	3751	6 <b>m</b>
SANDSTONE, light grey, medium grained, 4" coal seam.	11	0 <b>n</b>		3761	6 m.
CONGLOMERATE, medium grain. Many red granite pebbles	81	6n	<b></b>	3771	Oi
SANDSTONE, light grey, medium to coarse, with conglomerate bands of unknown thickness	221	Оп	21† O#	3991	O#
CONGLOMERATE, medium grained, arkosic, with				7//	
red pebbles	21	6n	11 6"	401	О#
SANDSTONE, dark grey, shaley, thin-bedded.					
Hard and compact. Contains many carbonized twigs	41	Oπ	••	4051	Ou
SANDSTONE, greyfeven grain, Compact and massive	8 1	611	31 0"	4131	٤ū
SANDSTONE, light grey, medium grain, Massive		3"	01 911	4151	9#
CONGLOMERATE, fine to medium grain. Numerous	<del>-</del> .	,		-	•
pebbles of red granite	7*	3n	31 311	4231	O m
SANDSTONE, grey, fine even grain, <u>Variable</u> <u>Dip 0-50</u>	71	2 n	<b></b>	4301	
SANDSTONE, light grey, coarse grain, few large pebbles	01	10"	<del>6-3</del>	431	On
SHALE, dark, sandy with coarse sand grains.			·		
few coal streaks	01	9"	-	4311	911
SANDSTONE, light grey, medium to coarse grained. Poorly sorted with few				-	•
larger pebbles		311	31 3ª 71 6ª	4401	-
CONGLOMERATE, medium grained, with red granite	91	Οü	71 6"	4491	Oii
Pebbles	-				
SANDSTONE, grey, thin-bedded with carbonaceous	a	ı On	1: O#	4561	ΩÞ
partings. Dip 7° SANDSTONE, light grey, Med. to coarse		1 0"	11 04	4591	
Diffirm formal property Direct to account		-	i	- 7 /	- :

Note: This completes the logging by the undersigned

"Wm. H. White"

## LOG OF HOLE NO. 3 (Continued)

SHALE, dark grey to black, carbonaceous,						
silty, slickensided in part		8=			4591	
SHALE, grey, sandy, carbonized wood fragments		4"			4641	
SHALE, dark, carbonaceous, silty, carb. wood		٠.	· 31		4691	
SHALE, grey, silty, with thin coaly partings	01	8 #	-		4691	8 n
SHALE, dark, carbonaceous, coaly streak at	•				-	
base		8 m			4711	4n
SHALE, grey, sandy, carb. in part	21	4"	••		4731	811
SANDSTONE, light-colored, fine-grained,	-	-	÷			_
micaceous	01	10	H		4741	6 n
SHALE, sandy, alternating fine grained sand-						
stone and grey sandy shale (carb. in		_				
part)	41	611	31 4	4 <sup>n</sup>	4791	
SANDSTONE, light-colored, coarse grained, cross-	-					
bedded, arkosic, (frags, carb, wood)	01	4 n	***		4791	4n
SANDSTONE, light grey, fine grained with dark	-	-				
carbonaceous silty partings (x-bedded)	01	811	97		4891	
SANDSTONE, medium to coarse grained, pebbles of	_	,			•	
quartz and greenstone (some reddish						1
. quartz pebbles)		6 m	91	6n	4991	
SANDSTONE, as above	01	9"	· •	- Name	4991	911
COAL, slightly crushed, DIP 20 Degrees	01	3"	-		5001	
SANDSTONE, as above, with thin irregular	,	-			-	
lenses of coal		5 n	· <u>-</u>		5001	5 n
SHALE, dark brown, silty, coaly specks	1:	7"	01.7°	ti	5021	
SHALE, almost black, carbonaceous, silty	21	6"	. 443		5041	6 n
sheared in places (DIP O Degrees)	-					_
SANDSTONE AND SHALE - alternating thinly and						
irregularly bedded laminae of fine						
grained light grey as, and dark grey						
silty sh. Specks of coal, plant frags.	71	6 <b>u</b>			5121	
SANDSTONE AND SHALE, as above, some x-bedding	11	_	_	•	5131	
SANDSTONE, light grey, medium grained	41		-		5171	
SHALE, dark grey, to black, silty, carb. in	-				•	
part with occasional thin stringers						
of coal		On		8 n	521	
SANDSTONE, light grey, fine to med. grained	51	011	-		5261	
with irregular dark silty laminae,						
occasional plant frags.				-		
SHALE, dark grey to black, silty, carb. plant						
fragments,	31 11		-		5291	
SHALE, as above, sheared in places	11				5301	
SANDSTONE, fine grained, light grey (grading			÷			
into sandy shale in part) coal mark-			•			
ings	8 •		01 5	tr	5381	
SANDSTONE, light grey, fine to med. grained	11		<b>–</b>		5391	
SANDSTONE, and SHALE, alternating bands of						
fine to medium grained light grey ss.						
and dark silty shale. DIP 15 Degrees.	10	Ť	-		5491	
when wants and a summer and a contract	_		•		- •	

"C.B. Newmarch" Asst. Mining Engineer

## LOG OF HOLE NO. 3 (Continued)

	SANDSTONE,	and SHALE, as above, occasional coaly partings.		6 <b>n</b>		5501	<b>ر</b> ه
	CONGLOMER AT	E, light grey, fine grained, (3'	<u> </u>			990.	<b>0</b>
	Oligina	band of brown shale with coal lenses at center)	101	6 n	316"	5611	
	CONGLOMERAT	E, coarse grained, (Pebbles 1"-3")	01	4 <b>u</b>	under Augu-	5611	4n
	SANDSTONE,	light grey, fine grained, with	• "		*		
_		occasional dark grey shale bands	, .	۰	ì	<b>~40</b> .	
		carrying coaly fragments.	-	8 #		5681	
	SHALE, dark	grey, silty, coaly partings	_	O"	O4 8tt .	5711	
	SANDSTONE,	light grey, fine grained, alternating	•	•	•	-	
	•	with thin dark grey silty (carbon-aceous in part) bands up to 3" thick,					
		grading at base into 3" of fine	•			×	
		grained conglomerate.	111		1 0n	582 <b>1</b>	
-	SHALE, dark	(, (almost black), silty, carbon-					
		aceous with a few coal markings.	01	11	th	5821	ll n
	SANDSTONE,	light grey, medium grained	11	1"		5841	
	CONGLOMERAT	E, light grey, fine grained, slight	^	-			
		porosity (pebbles are quartz,			•		
	. '	feldspar, greenstone, occasional	۰.	O.M		r0/•	0.89
	a carramaire	red granite)	21	2#	<b>≪</b> .⇒	5861	2"
	SANDSTONE,	light grey, fine grained, cut by thin irregular dark silty bands.	51	10	n 61 6"	5921	
	a vindamo vie	light grey, fine to med. grained		On		5981	
	SANDSTONE,	" , med coarse grained			31 8#	6031	
	SANDSTONE,			4 n		60314	<b>1</b> 18
		light grey, fine grained, with					
	D11,-D1-1,	dark irregular silty laminae	101	8 m	81 2#	6141	
	SANDSTONE,	light grey, coarse grained,			-	-	
	•	grading into fine grained conglom-					
		erate in part.	101		l' 11"	6241	
	SANDSTONE,	light grey, coarse grained, as		/ m	100	(00.	Cn
		above	٤,	611	****	6271	0"
í	SHALE, gree	enish-grey, silty, with occasional		*			-
`		dark wavy laminae (1" band of coarse conglomerate at base)	51	611	31 O''	6331	
	TWOTPONT	light grey, medcoarse grained	101	-	31 511	6431	
	SHALE, blac	ck, carbonaceous		211		6431	2 11
	SANDSTONE.	light grey, fine grained, inter-				-	-
	012(2.5 2 C C C C C C C C C C C C C C C C C C	bedded with greenish-grey silty					
		shale	11	5"	<b></b>	6441	7 n
•	SHALE, dark	k grey, sandy in part, carbonaceous,		o #		(40.	
		frags. carbonized wood.	41	0 11		6481	1"
	SANDSTONE,	light grey, fine grained, with	Λt	E II	1* 6"	6531	
	പ വാധാരതാരത്ത്	irregular dark silty laminae		10		6571	10#
	G VANDELONE,	light grey, med coarse grained light grey, fine grained		$\frac{1}{2}n$		6611	
	SANDSTONE,			On		6691	
		alternating bands of fine and	- ,	•		•	
	<u></u>	medium grained light grey sandstone					
		with a few brownish grey silty bands	21	Ou	and suff	6711	

"C.B. Newmarch" Asst. Mining Engineer

# LOG OF HOLE No. 3 (Continued)

	SANDSTONE, alternating irregularly bedded laminae of light grey fine grained sandstone and dark carbonaceous silty					
	shale with coaly partings.  SHALE, black, silty, carbonaceous  SHALE, black, silty, as above		2# 0#	1-2"	6761 6811 6821	10#
	SANDSTONE, light grey, fine grained, with wavy irregular dark silty carb. bands.	41	สูท		6861	ឧ្ភា
	SHALE, dark grey, soft, friable SHALE, " " " "	11	4# 0#		6881 6891	
	SANDSTONE, light grey, fine grained, irregularly bedded	41	Ou	-	6931	
	SANDSTONE, light grey, medium - coarse grained conglomeratic in basal 3" SANDSTONE, light grey, medium grained		On On		6981 7001	
ر. <sup>ج</sup>	SANDSTONE, Light grey, fine grained, with irregular dark silty laminae, grading			_	100	
`-	to shale at base SHALE, dark grey to black, silty, carbonac eous	_	Ou On	11-7"	7021 7081	
	SHALE, dark grey to black, sandy in part, carbonaceous	61	0 n	-	7141	7 n
	SHALE, light grey, fine grained, sandy SANDSTONE, light grey, fine to medium grained SANDSTONE, light grey, medium grained, inter-	11	5 n	-	718	
	bedded with thin dark carb. laminae SHALE, dark grey to black, silty to sandy,	51	0#	•	7231	
	with a few thin fine grained grey sandy bands.		Oπ		7251	(1)
	SHALE, almost black, silty, a few spores SANDSTONE, light grey, fine grained, with occasional thin carbonaceous	41	6n		7291	6"
	laminae Dip 15 degrees SHALE, dark grey, sandy in part, carb. in	21	611	· • •	7321	
	part SHALE, dark grey to black, carbonaceous	-	911 011	Ö1-9™ -	7351 7351	9 <b>1</b> 1
ĺ	SHALE, light grey, sandy SANDSTONE, medcoarse grained, light grey	21	311	4, 0,	7381 7451	
	SANDSTONE, as above SANDSTONE, light grey, fine grained, shaley interbedded with thin black wavy	21	2"	· • •	747.	5 <i>n</i>
-	carb. laminae CONGLOMERATE, light grey, fine grained	91	7" 3"	81 611	7471	9 <b>n</b>
	CONGLOMERATE, light grey, fine grained SHALE, light grey, fine grained, silty SANDSTONE, light grey, fine grained, shaley in part, numerous thin carb.		4 <sup>n</sup>	21 -811	767 <b>1</b> 768 <b>1</b>	4 <sup>11</sup>
	laminae. SANDSTONE, light grey, medium grained, compact		4# 4#	21 411	773 <b>*</b> 777 <b>*</b>	811
	SANDSTONE, fine - medium grained, as above SHALE, dark grey, carb. in part, wood frags.		On	·	7791	
•	specks of coal	31	10'	t <u>-</u>	7821	10"

SHALE, black, carb. with a few thin crushed crushed Coal bands		2n -	7841 7841 5#
SHALE, dark grey, carbonized wood frags.	01	5 <b>" ~</b>	7841 5
SANDSTONE, light grey, coarse grained, conglomeratic in part	41	7" 1: 10"	7891 7891 <b>8</b> 11
SANDSTONE, as above	01	0" →	7091 9"
SANDSTONE, light grey, fine grained, with thin dark silty laminae	11		7901 91
SHALE, dark grey to black, carb. in part SANDSTONE, light grey, med. grained compact		5# <del>-</del> 10# 3! 8#	7951 2 <sup>th</sup>

"C.B. Newmarch"

## LOG OF HOLE No. 3 (Continued)

SANDSTONE, light grey, fine grained to medium grained with a 3" dark	•		
grey shale band at center. SANDSTONE, light grey, medium grained to	10' 0"	61 6m	810'
coarse grained with a few thin irregular crushed coal menses.	21 011	_	8121
SANDSTONE, alternating bands (4" to 6") of fine and medium grained ligh	~	, —	
grey, shaly in part. SHALE, Chocolate brown to black, carbonace	31 411	-	815† 4°
with coally partings and lenses base.			816' 4"
SANDSTONE, light grey, fine grained with t	hin 1:3"		817 7 TR
irregular silty laminae SHALE, dark grey to black, sandy in part	1. y	-	017. 7
carbonaceous with several seams			
of crushed coal from 1" to 3" thick a few thin carbonate stringers.	21 5 <b>m</b>	01 41	8201
SANDSTONE, light grey, fine grained micro-		· -	-
micaceous, shaly at base.	11 Ou	-	821'
SHALE, dark grey, sheared, with gouge, pos fault.	01 4 <sup>11</sup>	-	821: 4"
SANDSTONE, light grey, fine grained, with	•		
interbedded black silty shale bands	8 t 8 tr	1: 8"	8301
SANDSTONE, as above	11 4"	_	831  4"
SHALE, black, silty, carbonaceous, coaly	31 811		835 1
partings, leaf molds. SANDSTONE, light grey, fine grained, shaly			8351 10"
SHALE, black, silty carbonaceous as above	21 21		8381
COAL, badly crushed	01 61	2	8381 67
SHALE, dark grey, sandy, shaly in part, coal specks.	11 6m	On 3n	8401
SHALE, dark grey, sandy in part, carbonace	ous		
in part, occasional plant frag and coally partings (Several	ments	•	
fractures dipping at 75°)	21 911	•	8421 911
SHALE, light grey, sandy, irregularly bedd	ed,		•
grades into coarse grained san stone in part (3" Brown shale	<b>d-</b>		
band with coally fragments at			
center.	51 0"		8471 911
SHALE, dark grey to black, carbonaceous (Carbonized plant fragments an	Ā	er	
coally lenses)	21 311	1 -2"	8501
SHALE, grey to dark grey, silty to sandy,			
carbonaceous in a few short se sheared in upper 2 dipping at			•
scour and fill structure at on	e point		
2" of coarse grained sandstone	with shal;	7 ("	960.
matrix at base. SHALE, pale greenish grey.	14 1 <u>m</u> 104 0m	01 6n	860! 861! 1"
Dimina hare Steeningh Stel			

# LOG OF HOLE No. 3 (Continued)

				,		
V	SANDSTONE, light grey, very fine grained, shaly in part.	21	O#		8631	3 M
	CONGLOMERATE, light grey fairly coarse, with			•	0051	1.
	a few thin bands of sandy shale	21	211	• •	86 51	711
	SHALE, grey, sandy, irregular bedding		4"	<u>-</u>	8661	
	SHALE, black, carbonaceous, with 1" of				000	-
	crushed coal.	01	5 11	- ·	8671	-
	SHALE, grey, sandy, occasional coal marking			_	907.	
	grading into fine grained light	٠, -		•	-	
	grey sandstone in part.	<b>7</b> t	On	lu Cu	8701	
	SHALE, dark grey to black, carbonaceous,	).	0	, <b>T</b>	070.	
	coaly partings carbonized plant	•	-		•	
	· · · · · · · · · · · · · · · · · · ·	21	5 n		8721	5 ti
	fragments.	۲.	<i>y</i>	_	015.	<b>9</b>
	CONGLOMERATE, light grey, fairly coarse	Q •	7"	81_0#	881*	•
	grained common desired for	σ.	<i>I</i> "	0.40	99T.	
	SANDSTONE, light grey, coarse grained, few	] t	0n		8821	
	coal lenses $(1/8")$ sheared at 45° SANDSTONE, light grey, very fine grained,	Τ.	0	<b></b> 3	0021	
•	pandotome, fight grey, very line grained,	21	0 ñ		8841	
	shaly DTP 10 15 degrees	۲,	0	ş <del>aar</del>	8041	
	DIP 10 - 15 degrees		Τ,		-	
	SHALE, dark grey to black, carbonaceous,	A •	5 <b>11</b>	•	8881	c n
	sandy in part, coaly partings		7"	11 48	8911	2"
	SANDSTONE, light grey, medium grained,			I' 4"		
	SANDSTONE, light grey, medium-coarse graine	αΙ	0.0	- <del>-</del> .	8921	
	SHALE, dark grey to black, carbonaceous,	3.0	7 H		007.	77.11
	sandy in part, coaly partings	Τ,	7 n		8931	$T^*$
	SANDSTONE, light grey, very fine grained,		CT 88		0.07.4	•
	shaly	-	5" ]	-	897 •	
	SANDSTONE, light grey, fine grained, carrie	s -	~ *	0.5 6 %	007.6	
	a little finely divided pyrite.	41	O n	21 7"	901	
	SANDSTONE, light grey, fine grained with a					
	few irregular coal lenses.	51	$0_{\mathbf{n}}$	<del>- 1</del>	9041	
	CONGLOMERATE, light grey, rather coarse in					
	part	_	Ōμ	5 * 0 *	9121	
	CONGLOMERATE, rather coarse, as above		3 <sup>11</sup>	•	9141	311
i	SHALE, dark grey, coaly partings.	01	9"	<b>→</b>	9151	-
(	JANDSTONE, light grey, medium grained with	-			-	
	thin irregular bands of darkgrey		, ·	for a section of		
	silty shale	31	$O_{\mathbf{u}}$	-	9181	
	SANDSTONE, grey, very fine grained, shaly,		be .		-	
	occasional thin coal lenses.	41	$0_{H}$	21 811	9221	
	SANDSTONE, Light grey, fine grained, with	-	-	-		
	thin grey silty bands.	12 1		11' 0"	9341	
	SANDSTONE, grey, medium grained	11	6 <u>n</u>		9351	6n
	SANDSTONE, light grey, fine grained inter-		-		-	
	bedded with dark grey to black					
	sandy shale	11	6n	-	9371	
	SHALE, Dark brown to black, carbonaceous,		_			
	coaly partings (several shears at					
	550)	21	On	-	9391	
	SHALE, dark grey, sandy	-11	811		9401	8 n
	SANDSTONE, grey, fine grained, with dark	_			-	_
	irregular silty bands.	] 1	4"	· 🕳	9421	
	SANDSTONE, fine - medium grained, salt and	<del></del>	-		•	
	pepper, a few carbonaceous fragments		=			
			Oa	1: 10"	9461	
	coarser at top.			g Engineer	,	
	Logged	ĽŘ.	June	,		
	10620					

# LOG OF NO. 3 HOLE (Continued)

			-				
		ONE, light grey, fine grained. dark grey, sandy, carbonaceous in	01	5 <b>n</b>	•	9461	5 <b>"</b>
		part grading into fine grained sandstone in part.	41	Ost	_	9501	5#
	SANDSTO	ONE, light colored, fine grained	-		-		-
	SHALE,	dark grey to black, sandy in part, carbonaceous at base with plant	-	7"	-	9531	O.
		fragments.		O m	01 7"	9561	0 #
	SHALE,	dark grey, sandy. dark to black, carbonaceous be-	11	Oū	<b>→</b>	9571	
	SHALE,	dark to black, carbonaceous be-	-	/=-			, <u>.</u>
	a vilouio	coming sandy at base.	21	6 m	-	9591	6 <b>4</b>
	DWINDIO	NE, light grey, fine grained inter- hedded with dark irregular silty	•	-	•	,	*.
		shale laminae	31	9 m		9631	Oa
	SHALE,	black, carbonaceous, coaly partings,				0/44	
_	SANDSTY	friable ONE, light grey, fine grained, shaly	Ŧ,	Ou	-	9641	0"
ζ.	Date	at top with dark irregular silty	•	•			
		bands.	21	Ou	**	9661	On .
	SHALE,	dark grey, sandy, irregularly bedded with thin $(1^n - 2^n)$ bands of grey		~	÷.	· .	•
		medium grained sandstone, a few	7 7 .	0#	0.4	000	o#
	SANDSTO	coaly partings.  ONE, light grey, fine grained with	ll'	U"	91 411	977'	04
	Ominoic	thin irregular carbonaceous or	•	-		•	
		coaly laminae DIP 10°	101	On	31 7"	9871	Ou
	CONGLON	MERATE, quite coarse in part, pebbles	-	•	J.	•	•
	001101101	of greenstone, qtz, and red					
		granite.	61	Ou	11 94	9931	Om
	SHALE,	black, carbonaceous, with plant		0.0			<b>a</b> :
	a vittama	fragments	-	8 11	-	9931	
		ONE, grey, fine grained, shaly at top ONE, grey, medium to coarse grained,	21	7"	-3	9961	ייכ
	DWWDIC	a few thin coaly lenses.	51	911	21 911	1002	On
f	SANDSTO	ONE, grey, coarse, grained, with a fer			- /	_0 <b>_</b>	
i		thin irregular coal lenses.	l,	Oπ	<b>-</b>	1003	
		WERATE, light grey, fine grained	01	8 <b>n</b>	. 🖚	10031	8 ii
	SANDSTO	ONE, grey, coarse grained with 1" of	-	*			
		coarse grained conglomerate at base.	31	2"		1006	10#
	SHALE.	dark grey to black, with carbonaceous		<b>6-</b> -	- :	1000	10
	<i>5222</i> ,	partings, thinly bedded.  DIP 100-150		0 n		1008	10"
	CONGLO	WERATE, rather coarse	51	2"	21 811	1014	On
		dark grey to black, carbonaceous		_	<b>.</b> ,	2027	•
	•	becoming sandy at base.		3"	••	1016	
	CONGLO	ERATE, fine grained.	71	9 n	51 8"	1024	$0_{\rm n}$

"C.B. Newmarch"

Asst. Mining Engineer

June 8/46

# LOG OF HOLE No. 3 (Continued)

4 12100E03E	The state of the s	^.A				
Sandstone	, light grey, medium grain compact (Coarse grained	at top) 6"	Om	•	10301	On
		150 - 100	- 	**		
	ATE, fine grained		Ou-	31 4H	10341	
	, grey, very coarse graine	d 41	6 n	-	1038	6 a
SHALE, da	rk brown to black, silty,					/-
	carbonaceous	_	On .	••	10391	6 <b>*</b>
SHALE, da	rk grey to black, sandy, m	icaceous 21	6 th	•	1042	O <sub>II</sub>
SANDSTONE	, grey, very fine grained,	sha <b>ly</b>	~		-	
	top, micaceous.		Oa	1' 5"	10451	
SANDSTONE	, grey, as above, coal mar		7"	<b>⇔</b> .	10451	
CONGLOMER	ATE, grey, fine grained at	top 31	10"	-	10491	5"
	rk grey, brown to black, c					
	eous, with a few thin $(1/8)$	n)				
	al laminae.	. 31	On	-	10521	5"
	, grey, medium-coarse grai	ned	-		ž	
	mpact	21	7 m	01 2n -	1055'	On
	rk grey to black, carbonac	eous.	-	= .		
	th coal partings	11	2 <b>n</b>	-	10571	211
	, grey, medium grained, co.	mpact -				-
	th a few thin dark carbon-	•				
	eous shale laminae.	51	311	•••	10621	511
	ownish black, silty, carbo	n-	•			•
	eous with occasional coaly			·		
	rtings.		7 <sup>11</sup>	**	10631	Ò12
	rk grey to black, carbonac	eous.				
	aly partings.	11	Ou	•	10641	Ou
Sandstone	, grey, medium-coarse grai	ned.		r.		
wi	th a few thin dark silty	•				
	ale bands.	31	9"		1067	911
	rk grey to black, carbonac	eous.	•			
	th carbonized plant fragme					
	ecks of resin.	31	3"		1071	O.m
SANDSTONE	, grey, fine grained shaly	with				
nii	merous carbonized plant	_				
fr	agments specks of coal	21	0"	-	10731	On
SHALE, da	rk grey, carbonaceous in p	art	-		-	-
ומ ,	ant fragments.	01	7"	••	1073	$7^n$
SANDSTONE	, grey, medium grained, oc	casion-				
	coal markings.	11	8 <del>n</del>		1075	3"
	ark grey, carbonaceous in p	art.			•	
,,	sandy in part, carbonized	•				
	lant fragments		On	-	1078†	
	, grey, medium grained com	ipact 21	9 <b>1</b> 1	-	1081	Ou
SANDSTONE	, grey fine grained, inter	bedded				,
wi	th thin bands of dark grey	7			_	
	arbonaceous shale.	81	$T_{\mathbf{n}}$	51 6H	10891	$\mathcal{I}_{\mathbf{u}}$
	, grey, fine grained, shal	у,				
wi	th a few short carbonateou	lS			_	
	nale sections.	41	611	₩	10931	7 n
		"C.B.	Newma	arch"		
	. I	Asst. Mining	Engir	neer		
		_ ~	351	A /		

June 17/46

## LOG OF NO. 3 HOLE (continued)

				,			
	SANDSTONE,	grey, coarse grained	51	5 <b>11</b>	41 5#	10991	0#
		grey, fine grained, with dark	_			,,	
'	•	grey silty shale bands	31	6 <b>11</b>	-	1102	6n
	SANDSTONE,	grey, medium-c parse grained.	•				
•		grading into fine grained con-			•		
		glomerate in part	11	1 <sup>m</sup>	-	11031	7 <b>u</b>
	SANDSTONE.	grey, medium-coarse grained					•
	,	with short fine grained con-					
		glomerate sections, a few thin					
		lenses of coal, slight porosity					
		in 6" section.	41	5#	O1 3#	1108	On
	SANDSTONE.	light grey, medium-coarse	٠.	<b>-</b>			٠.
	012.20201,	grained.	21	5 H	<b></b>	11101	511
		DIP - 10°	<u> </u>				•
	SANDSTONE.	light grey, fine grained shaly			•		
	,	at base, carbonaceous streaks	11	311	-	1111'	811
	SHALE, dark	grey to black, carbonaceous,					
	<b>,</b>	coaly partings.	21	4 u	1: 6"	11141	On
	SANDSTONE.	dark grey, coarse grained, with	_				
	•	occasional carbonaceous or coaly					
		streaks	91	Ou	41 10"	11231	
	CONGLOMERAT	TE, grey, fine grained	21	7 n	-	11251	7 n
	SHALE, dark	grey to black, carbonaceous,				-	-
	·	coal partings	21	Ou		11271	7"
	SANDSTONE,	grey, fine grained, with thinly					
		bedded dark grey silty shale	21	5"	-	11301	On
	SANDSTONE,	grey, medium grained, compact,					
		occasional silty bands.	-	_	210"	1135	
		grey, coarse grained, compact	51	Οū	. •••	11401	Oii
	SANDSTONE,	grey, coarse grained, compact,		0		33434	0.0
		shaly at top	1,	8п	-	1141'	8"
	SHALE, darl	c grey, to black, carbonaceous,					
		sandy in part, few coaly part-		<i>a</i> n		2740	~ **
	~ .21D.2m2.3T3	ings.	יל	7"		1147	ク"
	SANDSTONE,	light grey, medium-coarse	•	911		3150+	Off
	#1774 T TO 3.3.1	grained	۲۱	9"		11501	0
	SHALE, 11g	nt grey, crushed and slicken-	•				
		sided occasional thin lenses	4 9	On	21 211	11541	OB
	OTTATE domi	of coal (1/8")	4,	0	2 2	1174.	0
	Shalle, dari	k grey to black, carbonaceous,					
		coaly partings, sandy at top and bottom	41	4"	_	11581	411
	S VILLOUING THUS	grey, coarse, grained	-	8"		11591	
	SAMDICUME,	k grey to black, carbonaceous,	0.	0	_	11//	•
	Olimini dar	coaly partings,	11	ភូម		11601	511
	ENCERTAL	grey, fine grained, with thin	_				
	OMINDIONS,	irregular dark silty shale					
		bands	41	7"	21 211	11651	On
	SANDSTONE.	grey, fine grained, askabove	01	4 n	-	11651	411
		TE, compact with short coarse		-		_	
		grained sandstone sections	31	811	-	1169†	011
	SANDSTONE.	grey, grading from coarse					
	,	grained at top to fine grained					•
		at bottom. shear plane at 45°	,		a		
		at centre.	61	$O_{\mathbf{n}}$	21 7"	1175'	Oil
		"C.B.	Ne	wmarch'	1		

"C.B. Newmarch" Asst. Mining engineer

June 17/46

						11751	Ou
1	SHALE, grey to black, sandy in part, Carbon-						-
	aceous in part, coaly partings	51	O as		-	1180*	Ou
	SANDSTONE, grey, fine grained, with thin	•					
	dark silty laminae	21	5 <b>"</b>		-	11821	5 <b>"</b>
	SANDSTONE, grey, medium grained, compact	-					
	(Coarse grained in part) with frag-	~.		۸.	A 66	77064	`.
	ments of carbonized wood		7n	01	4"	11861	
	SANDSTONE, grey, coarse grained	41		,	<b>-</b>	11901	1"
	SANDSTONE, light grey, fine grained	т.	<b>)</b> :		•	11921	
	SANDSTONE, grey, medium-coarse grained, occasional thin carbon lenses	51	On	11	Ou	11971	
	SANDSTONE, as above	Ót	-		_	11971	8 <b>1</b>
	SHALE, dark grey, carbonaceous in part,	•					
	sandy	81	411	11	7=	12061	Oπ
	SHALE, dark grey, silty to sandy, carbon	-	-		•		_
	in part	51	0"		-	1211'	On
***	SANDSTONE, light grey, with thin silty	-					
	shale laminae	21	Ou		-	12131	On
	SHALE, brown to black, silty, carbonaceous,					2026	
	plant fragments, coaly partings	31	Ou	יס	10"	1216*	O"
	SANDSTONE, grey fine grained, shaly,		9#	•		10171	OB
	carbonaceous in part	1 4	9-			12171	9-
	SANDSTONE, light grey, medium grained, compact	21	911		_	12201	611
	SHALE, dark grey, silty in part, compact		7			ILZU.	J
	(carbon in top 3")	31	611		••	12241	O#
	SHALE, dark grey to black, carbon, coaly						-
	partings	01	8 m -		<del></del> ',	12241	811
	COAL, bony crushed	_	4"	01	811	1226	
	SHALE, dark grey, sandy at base	11	On		rie.	1227	On
	SANDSTONE, light grey, course grained		-				
-	(fine grained at top)	31	3 <b>"</b>		-	1230	2"
	SHALE, dark grey to black, carbonaceous,	-	7.0		0.00	107/*	O.11
	3 bony coal at centre)	יל	10"	יכ	2"	12361	0
	SHALE, dark grey sandy grading into fine-		5 n			1241	5 11
	grained sandstone at base	יכ	ס"		-	1241,	ン"
	SANDSTONE, light & grey, fine-medium						
	grained with thin irregular dark (Carb) laminae, specks of coal	31	4 n		-	12441	911
	SANDSTONE, light grey, course grained	í١	311			1246	
	SANDSTONE, light grey medium to course	<b></b>	_			-	
	grain	41	Ou.	**	-	12501	Ou
	CONGLOMERATE, fine grained	41	Ou		•	1254	Οij
	SANDSTONE, light grey, fine grain,			,			
	micaceous	41	O <sub>11</sub>	21	On	12581	Out
	SANDSTONE, light grey, medium grained with						
	shaly laminae at base and lam coaly	^ •	/ m		•	12601	<b>4</b> m
	shale in middle	21	6 <b>n</b>		-	TYDU	0

(

SHALE, derk, silty	01 64	•	1261' 0"
SANDSTONE. light grey medium grain with	-		
dark laminae and 12" Dark grey shale with coaly laminae DIP 15 - 180	41 0"	01 6#	1265' 0"
SANDSTONE, dark, fine and medium grained drilling stopped here			

"J.M. Black"
Asst. Mining Engineer
18 June 46

## PROGRESS REPORT MERRITT D.D.H. No. 3. June 17 - June 18

### June 17

Graveyard Shift: Morning Shift: Afternoon Shift:

Coring 1246 - 1258 Coring 1258 - Coring 1258 -

June 18

Graveyard Shift: Drilling stopped here Coring 1258 - 1270 t

June 19

First drill used, is being set up on #4 site

"J.M. Black"

Asst. Mining Engineer

19 June 46

### PROGRESS REPORT MERRITT D.D.H. No. 3 June 13 - June 16

### June 13

Graveyard Shift	Coring Coring	11651	_	11751
Morning Shift	Coring	1175	_	1186
Afternoon Shift	Coring	1186	_	1192

### June 14

Graveyard Shift	Coring	1192	_	11971
Morning Shift	Coring			
Afternoon Shift	Coring	1206	-	1216*

#### June 15

Graveyard Shift	Coring 1216' - 1226'
Morning Shift	Coring 1226' - 1236'
Afternoon Shift	Shut down

### June 16

Graveyard Shift	Shut down
Morning Shift	Shut down
Afternoon Shift	Coring 1236 - 1246

Depth at 8:00 A.M. June 17th was 1258

Dr. J. Black has taken over here.

At a depth of 1225' a coal seam with a thickness of 1'4" was encountered (bony coal) This seam may allow us to make a tentative correlation with the No. 1 hole on the Indian Reserve (1225' in hole No. 3 being equivalent 550' in the Indian Reserve hole) I am bringing the graphic logs with me and will discuss the matter with you.

"C.B. Newmarch"

### June 10

Graveyard shift: Morning Shift: Afternoon Shift: Coring 1083' - 1099' Coring 1099' - 1108' Coring 1108' - 1114'

### June 11

Graveyard shift: Morning Shift: Afternoon Shift: Coring 1114' - 1123' Coring 1123' - 1135' Coring 1135' - 1140'

### June 12

Graveyard Shift: Morning Shift: Afternoon Shift: Coring 1140' - 1150' Coring 1150' - 1154' Coring 1154' - 1165'

Depth at 8:00 A.M. June 13 was 1175'

Section is mostly sandstone with a little carbonaceous shale.

"Charles B. Newmarch"

### PROGRESS REPORT MERRITT D.D.H. No. 3. June 5 - 9

### June 5

Graveyard Shift: Coring 1018' - 1014' Morning Shift: Coring 1014' - 1024' Afternoon Shift: Coring 1024' - 1034'

### June 6

Graveyard Shift: Coring 1034' - 1045'
Morning Shift: Coring 1045' - 1063'
Afternoon Shift: Shut down waiting for drill rods

### June 7

#### June 8

### June 9

Graveyard Shift: Coring 1068' - 1073' Morning Shift: Coring 1073' - 1083' Afternoon Shift: Coring 1083' - 1093'

Depth at 8:00 A.M. June 10 was 1099' No coal to date.

"C.B. Newmarch"

91

Asst. Mining Engineer.

Will core to 1123 and advise C.B.N.

### PROGRESS REPORT MERRITT D.D.H. No. 3 June 3 - 4

### June 3

Graveyard Shoft: Morning Shift: Afternoon Shift: Coring 956! - 963! Coring 963! - 977! Coring 977!-987!

### June 4

Graveyard Shift: Morning Shift: Afternoon Shift: Coring 987' - 1002' Coring 1002' - 1003' Mixing Mud and Coring 1003'-1008'

Depth at 11:30 A.M. June 5 was 1024 Now coring conglomerate and sandy shale.

"Charles B. Newmarch"

# PROGRESS REPORT MERRITT D.D.H. No. 3, June 1 - 2

### June 1

Graveyard Shift: Morning Shift: Afternoon Shift: Coring 939! - 946! Coring 946! - 956! Shut down.

### June 2

Graveyard Shift: Morning Shift: Afternoon Shift: Shut down Shut down Shut down

Depth at 11:00 A.M. June 3 was 977'
No coal to date.

"C.B. Newmarch"
Asst. Mining Engineer.

### PROGRESS REPORT MERRITT D.D.H. NO. 3, May 30 - 31

### May 30\_\_

Graveyard Shift: Coring 880' - 890' Morning Shift: Coring 890' - 911' Afternoon Shift: Coring 911' - 922'

### May 31

Graveyard Shift: Coring 922' - 932'
Morning Shift: Coring 932' - 934'
Afternoon Shift: Coring 934' - 939'

Depth at 11:00 A.M. June 1st was 956\*
The section remain unchanged; no coal to date.

"Charles B. Newmarch"

### PROGRESS REPORT - MERRITT DRILL HOLE NO. 3, May 28 - 29

#### MAY 28

Graveyard Shift: Coring 830' - 840'
Morning Shift: Coring 840' - 850'
Afternoon Shift: Coring 850' - 855'

#### May 29

Graveyard Shift: Coring 855! - 860!
Morning Shift: Coring 860! - 870!
Afternoon Shift: Coring 870!-880!

Depth at 12:30 P.M. May 30 was 911'

Coring is now continuing without unusual difficulty at about 30 feet per day.

"C.B. Newmarch"

## PROGRESS REPORT - MERRITT DRILL HOLE No. 3 - May 26 - 27

### MAY 26

Graveyard Shift: Morning Shift: Afternoon Shift: Shut down. Coring 800' - 805' Coring 805' - 812'

### May 27

Graveyard Shift: Morning Shift: Afternoon Shift: Coring 812' - 817' Coring 817' - 820' Coring 820' -830'

Depth at 12:00 P.M. May 28 was 850'

"C.B. Newmarch"

## PROGRESS REPORT - MERRITT DRILL HOLE NO.3 - May 21 - 25

### May 21\_

Graveyard Shift: Morning Shift: Afternoon Shift: Coring 688' - 698' Coring 698' - 708' Coring 708' - 714'

### May 22\_

Graveyard Shift: Morning Shift: Afternoon Shift: Coring 714' - 723' Coring 723' - 735' Coring 735' - 757'

### May 23

Graveyard Shift: Morning Shift: Afternoon Shift: Coring 757' - 767' Coring 767' - 777' Coring 777'-789'.

### May 24

Graveyard Shift: Morning Shift: Afternoon Shift: Coring 789' - 800' Shut down Shut down.

### May 25

Grav eyard Shift: Morning Shift: Afternoon Shift: Shut down. Shut down. Shut down.

Note: Will resume coring at 8:00 A.M. May 26

"C.B. Newmarch"

Asst. Mining Engineer.

May 24, 1946

## PROGRESS REPORT - MERRITT DRILL HOLE No. 3 May 18 - 20

### May 18\_

Graveyard Shift: Coring 561' - 571'
Morning Shift: Coring 571' - 5%2'8
Afternoon Shift: Coring 582' - 598'

### May 19

Graveyard Shift: Coring 598' - 614'
Morning Shift: Coring 614' - 633!
Afternoon Shift: Coring 633' - 653'

### May 20

Graveyard Shift: Coring 653! - 671!
Morning Shift: Coring 671! - 681!
Afternoon Shift: Coring 681! - 688!

Total Depth at 4:00 P.M. May 21 was 708.

"C.B. Newmarch"

## PROGRESS REPORT MERRITT DRILL HOLE NO #3, May 16 - 17

### MAY 16

Graveyard Shift: Morning Shift: Afternoon Shift: Goring 512' to 516' Coring 516' to 521' Coring 521'-529'

### May 17

Graveyard Shift: Morning Shift: Afternoon Shift: Coring 529' to 539' Coring 539' to 549' to 561'.

Total Depth at 5:00 P.M. May 18 was 590'
No coal encountered during the week.

"C.B. Newmarch"

## PROGRESS REPORT MERRITT DRILL HOLE No. 3, May 14 - 15

### May 14

Graveyard Shift: Morning Shift: Afternoon Shift: Reaming Hole from 140' to 499' Running 420' of Casing Running Casing

### May 15

Graveyard Shift: Morning Shift:

Afternoon Shift:

Running Casing Setting Casing at 498' and cored 499' - 502' Cored 502' to 512'

Total Depth at 5:00 P.M. May 16 was 521\*

"C.B. Newmarch"

## PROGRESS REPORT -MERRITT DRILL HOLE # 3, - May 11th to 13th.

May 11th: Morning Shift: Cored 449' to 459'

Afternoon Shift: Shut Down

May 12th: Graveyard Shift: Shut Down

Morning Shift: Shut Down

Afternoon Shift: Cored 459 to 4671

May 13th: Graveyard Shift: Cored 467' to 479'

Morning Shift: Cored 479' to 489' Afternoon Shift: Cored 489' to 499'

Decision made to case hole to 450' to shut off artesian Watter encountered from 430' to 450'.

"C.B. Newmarch"

## PROGRESS REPORT - MERRITT HOLE # 3, - May 8th to 10th.

May 8th - Night Shift:

Sank casing easily to 140 feet which appears to be the bottom of the caved area which caused the trouble. If more

trouble develops later on the casing

can be sunk farther.

Graveyard:

Cored 365! to 387!

May 9th - Day Shift

Cored 387! to 405! Cored 405!-416!

Night Shift Graveyard

Cored 4161-4301

May 10th- Day Shift

Cored 4301 to 4491

Night Shift

Pump trouble - Hole making Water

Graveyard : Not working

May 11th- Day Shift Only: Repaired Pump. Cored 4491 - 4591

Note: Mr. Newmarch has taken over here at this point.

" W.H. White"

## PROGRESS REPORT - MERRITT DRILL HOLE # 3 - May 6th to 8th

May 6th:

NightShift:

3181 to 3261

Graveyard :

3261 to 3451

May 7th:

Day Shift

Night Shift

345! to 355! 355! to 365!

Caving Trouble.

Graveyard \_

Caving below the casing, set at 40' resulted in the casing breaking off near the bottom and dropping to 100' in the caved hole. This was recovered and new

casing run in to 1001.

May 8th:

Day Shift

Decision made to case the hole down to

solid ground, which, on account of the friable nature of the sandstones and conglomerates, may have to go to bottom

(3651)

"Wm. H. White"

# PROGRESS REPORT: MERRITT DRILL HOLE #3 - May 4th - 6th

May 4th -	Night Shift: Graveyard :	Cored 202' to 222' (Engine Trouble)
May 5th -	Day Shift : Night Shift: Graveyard :	Cored 233' to 253' Cored 253' to 274' Cored 274' to 297'
May 6th -	Day Shift:	Cored 2971 to 3181

"Wm. H. White"

# PROGRESS REPORT - #3 Hole, MERRITT, B.C. April 29th to May 2nd

April 29th: Day Shift Only: Set up completed and hole collared.

April 30th: Day Shift : Drove 4" Pipe to Depth of 11 feet in

stream wash, encountering decomposed

rock at 7 feet.

Night Shift:

Drilling casing Down

May 1st:

Day Shift:

Drilled casing down to 40 feet in

decomposed bedrock.

Cored 40' to 50' in decomposed sandy

shale

Night Shift:

Cored 50' to 70'

May 2nd:

Day Shift:

Cored 70' to 90'

"Wm. H.White"

# PROGRESS REPORT - MERRITT DRILL HOEE # 3 - May 2nd to May 4th.

May 2nd: Night Shift: Cored 90' to 120'

Cored 120' to 146' Cored 146' to 166' Cored 166' to 193' May 3rd: Day Shift : Night Shift:

Grave- yard:

Cored 193' to 202' Day Shift: May 4th:

"Wm. H. White"

Assoc. Mining Engineer .

# LOG OF DRILL HOLE #4, MERRITT, B.C.

Located on NE Quarter Section 14, 675' N 18° E true from Hole #1. Elevation 1975'. Hole started June 20, 1946.

Boulder clay and gravel

181

1811

BEDROCK	Thickness	Core Missing	Depth
SANDSTONE, medium to fine grained, c bedded with dark laminae, thin beds conglomerate. SANDSTONE, medium to fine grained, w dark laminae, shaly towar	three Dip 18° 5' ith ds base	Ou	186† 0#
end 4" of Friable Coal an probably some coal that i missing. Dip 10° SANDSTONE, Coarse SHALE, dark grey shattered, getting	51 31	9n 11 9n 3n -	1951 0"
more sandy to base, Dip 140 SANDSTONE, medium grained, dark grey darker laminae, has one n vertical slip of about ½" another dip about 450, br	with lear	011 31 811	2011 01
and gouge about 2" thick, cite stringer SHALE, dark grey, micaceous, near be sandy. Dip 7°	cal- 61	0" 9"	
SHALE, dark sandy, micaceous, at bas two seams 1/8 and ½" bony Coal SANDSTONE, medium grained, light gre	51	6 tt -	2221 611
with dark laminae, Dip 5 several strike fractures. Dip 30-60°N - with Calcit SANDSTONE, coarse, light colored,	- 180	6 <b>n</b> -	2271 0"
micaceous, massive - cont with shale below Dips 30° SHALE, dark grey, fractured at conta COAL,	41 Act 41	0n - 8n 6n -	231† 0# 235† 0# 235† 6#
SHALE, dark grey, sandy, fractured, partings, 2 - 3" broken Coal base SANDSTONE, grey, medium grained, fra	at 41 actured	6u 6u	240† O"
shaly toward base - at 24 black shale	51	On 21 O	2451 0"

"J.M. Black"

Asst. Mining Engineer

•		Thickne		Core Missing	Depth	ı '
	SHALE, dark grey, some coal partings, some sandy and micaceous beds Dip 300	31	Ots		2481	On
	SANDSTONE, with dark laminae, some cross bedding medium grain to 250° 3" coarse massive to	•				
	258' 3" with few conglomerate beds, coal fragments	10	13"	-	2581	3 <b>u</b>
	SANDSTONE, brown, medium grain, compact, with very many angular coal fragments up to 1" across				-	
	oriented parallel to bedding		911		2501	O BB
	which dips 200	7.	10"	7#	2591 2621	
	SANDSTONE, coarse with conglomerate SHALE, Dark grey, numerous coal partings	יכ	10	<i>I</i> ".	2021	10
	some mud seams, dip 200	101	211		2731	On
	SHALE, Dark grey		Ōu		2771	
	SHALE, Dark grey		On		2791	
	SANDSTONE, medium grained, light and			•	,	
	dark grey, dip 100	1.	911	-	280	9π
	SHALE, dark with coal partings		Qu	<b>~</b> `	2821	
	SANDSTONE, medium to coarse grained	21	0n	_	2841	
,	SHALE, Dark	11	3 <b>#</b>	-	2861	On.
	<del>-</del>					

"J.M. Black"

Asst. Mining Engineer

# LOG OF DRILL HOLE #4, MERRITT, B.C. (Cont.)

	Thicknes	33	Core Missing	Depth	
SHALE, dark grey, coal partings	11, 8	311	•.	286 <b>1</b> 287 <b>1</b>	
SANDSTONE, dark compact becoming coarser at base. Dip 11° SHALE, dark to black, coal partings, broken	51 ′ 31 ′		<b>~</b> 5 <b>u</b>	293 <b>!</b> 297 <b>!</b>	0# 3#
SANDSTONE, medium grained, some dark laminae. Dip 20	2† (		**	2991	0#
SHALE, Dark fissile, coal partings SANDSTONE, medium grained, dark lamaninae.	21 (		611	3011	
Dip 120 SHALE, dark with coal partings	11 ( 31 (		11 0"m	3021 3061	
SANDSTONE, medium grained, getting coarser downwards - at base massive	•	•.	- **		
some cross bedding CONGLOMERATE, fine, few sandy beds, coal	13' (	0 11	• · · · · · · · · · · · · · · · · · · ·	3191	On
fragments 331 29 K SANDSTONE, medium grained laminae.	21'	3"	<b></b>	3401	3"
Dip 13° at base, massive, light colored, irregular	101	9"		3511	Ou
SANDSTONE, medium grained with dark laminae getting shaly towards base	101			3611	
SANDSTONE, dark and light, few coarse beds SHALE, dark with coal partings	31 21	07	· 3"	364 t	3"
COAL SHALE, dark with coal partings	_	4 n	2 <sup>n</sup>	3671 3681	7 n
COAL, SHALE, boney		ろ!! ろ!!	<del>,</del>	3711 3721 3721	Ju
COAL SHALE, boney COAL, 4 Shaly seams totalling 6"	4♥	2"	. 🍝	3721 3771	6 n
SHALE, dark sandy, coal partings, mud seam SANDSTONE, dark, compact, shaly Dip 10-180	31	Ö"	11 60	3801 3851	On

"J.M. Black"

Asst. Mining Engineer

SANDSTONE, Medium grain, dark and light, some coal partings  CONGIOMERATE, dark, fairly coarse to 1", few coal fragments:  CONGIOMERATE, &ight colored with few coaly streaks  CONGIOMERATE  CONGIOMER	38 <u>5</u> † 0†
CONGLOMERATE, dark, fairly coarse to 1", few coal fragments: CONGLOMERATE, Light colored with few coaly streaks CONGLOMERATE CONGLOMERATE, some coarse sandy beds, coal fragments at 413, at 420' 6" very coarse, pebbles to 2" closely packed SANDSTONE, medium grained thin dark and light, beds dip 15-180, some mica, towards base beds thicker and coarser SANDSTONE, coarse, light with few dark fine beds some coal fragments, dis- turbed SANDSTONE, medium grained, dark and light beds, some coarser beds, dip 80-120-140, getting shaly at base 7'0" SHALE, sandy, with coal marks SHALE, sandy, with abundant coal partings SANDSTONE, brown fine grained SHALE, black, fissile, broken SHALE, shale SANDSTONE, shaly SANDSTONE, shaly SANDSTONE, dark and light, fine to medium grain SANDSTONE, medium grained, light with dark laminae, dips 100, 200 SANDSTONE, Medium to fine grained, some shaly beds  4'9" 5"	3861 61
CONGLOMERATE, fight colored with few coaly streaks  CONGLOMERATE CONGLOMERATE, some coarse sandy beds, coal fragments at 413, at 420' 6"  very coarse, pebbles to 2"  closely packed  SANDSTONE, medium grained thin dark and light, beds dip 15-180, some mica, towards base beds thicker and coarser  SANDSTONE, coarse, light with few dark fine beds some coal fragments, disturbed  SANDSTONE, medium grained, dark and light beds, some coarser beds, dip 80-120-140, getting shaly at base 7'0"  SHALE, sandy, with coal marks SHALE, sandy, with abundant coal partings SANDSTONE, brown fine grained SHALE, black, fissile, broken COAL, and boney, coal coal coal, and shale, 4" shale SANDSTONE, shaley, dip 180, some irregular bedding SANDSTONE, shaley dip 180, some irregular bedding SANDSTONE, dark and light, fine to medium grain SANDSTONE, medium grained, light with dark laminae, dips 100, 200  SANDSTONE, Medium to fine grained, some shaly beds  4'0"  SANDSTONE, Medium to fine grained, some shaly beds  4'9"  5''  2'' 5"  2'' 6"	3951 0"
CONGLOMERATE CONGLOMERATE, some coarse sandy beds, coal fragments at 413, at 420' 6" very coarse, pebbles to 2" closely packed SANDSTONE, medium grained thin dark and light, beds dip 15-180, some mica, towards base beds thicker and coarser SANDSTONE, coarse, light with few dark fine beds some coal fragments, dis- turbed SANDSTONE, medium grained, dark and light beds, some coarser beds, dip 8'-12'-14', getting shaly at base 7' 0" SHALE, sandy, with coal marks SHALE, sendy, with abundant coal partings SANDSTONE, brown fine grained SHALE, black, fissile, broken SHALE, black, fissile, broken SHALE, black, fissile, broken COAL, and boney, 5" coal COAL, and shale, 4" shale SANDSTONE, shaley, dip 180, some irregular bedding SANDSTONE, dark and light, fine to medium grain SANDSTONE, medium grained, light with dark laminae, dips 100, 20 SANDSTONE, Medium to fine grained, some shaly beds  4' 9"  SANDSTONE, Medium to fine grained, some shaly beds	4051 0 <sup>ii</sup>
fragments at 413, at 420' 6" very coarse, pebbles to 2" closely packed 11' 0" 1' 5"  SANDSTONE, medium grained thin dark and light, beds dip 15-180, some mica, towards base beds thicker and coarser 10' 0" -  SANDSTONE, coarse, light with few dark fine beds some coal fragments, disturbed 5' 10"  SANDSTONE, medium grained, dark and light beds, some coarser beds, dip 80-12'-14', getting shaly at base 7' 0" -  SHALE, sandy, with coal marks 4' 0" 1' 8"  SHALE, sandy, with abundant coal partings SANDSTONE, brown fine grained 4" -  SHALE, black, much broken 5' 2" 3' 8" SHALE, black, fissile, broken 2' 0" 1' 6" COAL, and boney heading 5' 2" 1' 6" COAL, and shale, 4" shale 2' 0" 1' 6" SANDSTONE, shaley, dip 180, some irregular bedding 7' 2" 4' 0" 1' 0"  SANDSTONE, dark and light, fine to medium grain 4' 0" 6" SANDSTONE, medium grained, light with dark laminae, dips 10', 20' 9' 0" -  SANDSTONE, Medium to fine grained, some shaly beds 4' 9" 3"	4101 0"
SANDSTONE, medium grained thin dark and light, beds dip 15-18°, some mica, towards base beds thicker and coarser 10' 0" - SANDSTONE, coarse, light with few dark fine beds some coal fragments, disturbed 5' 10"  SANDSTONE, medium grained, dark and light beds, some coarser beds, dip 8'-12°-14°, getting shaly at base 7' 0" SHALE, sandy with coal marks 4' 0" 1' 8" SHALE, sandy with abundant coal partings 2' 6" - SANDSTONE, brown fine grained 4" - 8" 3' 8" SHALE, black, much broken 5' 2" 3' 8" SHALE, black, fissile, broken 2' 0" 1' 5" 10" 10" 10" 10" 10" 10" 10" 10" 10" 10	- ~
mica, towards base beds thicker and coarser  SANDSTONE, coarse, light with few dark fine beds some coal fragments, dis- turbed  SANDSTONE, medium grained, dark and light beds, some coarser beds, dip 80-120-140, getting shaly at base 7'0"  SHALE, sandy, with coal marks SHALE, sandy, with abundant coal partings  SANDSTONE, brown fine grained  SHALE, black, much broken SHALE, black, fissile, broken COAL, and boney, ocoal COAL, and shale, 4" shale SANDSTONE, shaley, dip 180, some irregular bedding SANDSTONE, shaly SANDSTONE, shaly SANDSTONE, dark and light, fine to medium grain SANDSTONE, medium grained, light with dark laminae, dips 100, 20  SANDSTONE, Medium to fine grained, some shaly beds  4'9"  3"  2" - 3" - 4" 0" - 5" - 5" - 5" - 5" - 5" - 5" - 5"	4211 0"
beds some coal fragments, disturbed  SANDSTONE, medium grained, dark and light beds, some coarser beds, dip  8°-12°-14°, getting shaly at base 7' 0"  SHALE, sandy with coal marks  SHALE, sandy with abundant coal partings  SANDSTONE, brown fine grained  SHALE, black, much broken  SHALE, black, fissile, broken  COAL, and boney coal  COAL, and boney coal  SANDSTONE, shaley, dip 18°, some irregular bedding  SANDSTONE, shaly  SANDSTONE, dark and light, fine to medium grain  SANDSTONE, medium grained, light with dark laminae, dips 10°, 20°  SANDSTONE, Medium to fine grained, some shaly beds  5'  10"  -  10"  5'  10"  -  10"  6"  5'  10"  -  5'  10"  -  10"  6"  5'  10"  -  5'  10"  -  10"  6"  5'  10"  -  5'  10"  -  10"  5'  10"  -  10"  10"  6"  5'  10"  -  5'  10"  -  10"  5'  10"  -  10"  10"  6"  5'  10"  -  5'  10"  -  5'  10"  -  10"  10"  10"  10"  10"  10"	4311 O"
SANDSTONE, medium grained, dark and light beds, some coarser beds, dip 8°-12°-14°, getting shaly at base 7'0"  SHALE, sandy, with coal marks SHALE, sandy, with abundant coal partings  SANDSTONE, brown fine grained SHALE, black, much broken SHALE, black, fissile, broken COAL, and boney, 5" coal COAL, and shale, 4" shale SANDSTONE, shaley, dip 18°, some irregular bedding SANDSTONE, shaly SANDSTONE, dark and light, fine to medium grain SANDSTONE, medium grained, light with dark laminae, dips 10°, 20°  SANDSTONE, Medium to fine grained, some shaly beds  4'9" 3"	4361 0"
SHALE, sandy with abundant coal partings  SANDSTONE, brown fine grained SHALE, black, much broken SHALE, black, fissile, broken COAL, and boney or coal COAL, and shale, 4" shale SANDSTONE, shaley, dip 18°, some irregular bedding SANDSTONE, shaly SANDSTONE, dark and light, fine to medium grain SANDSTONE, medium grained, light with dark laminae, dips 10°, 20° SANDSTONE, Medium to fine grained, some shaly beds  4' 0" 1' 5"	
SHALE, sandy with abundant coal partings  SANDSTONE, brown fine grained  SHALE, black, much broken  SHALE, black, fissile, broken  COAL, and boney, o coal  COAL, and shale, 4" shale  SANDSTONE, shaley, dip 180, some irregular bedding  SANDSTONE, shaly  SANDSTONE, dark and light, fine to medium grain  SANDSTONE, medium grained, light with dark laminae, dips 100, 20  SANDSTONE, Medium to fine grained, some shaly beds  2' 6"  4"  2' 6"  2' 0" 1' 6"  2' 0" 1' 0" 6'  5' 0"  6'  9' 0"  -  SANDSTONE, Medium to fine grained, some shaly beds	4471 01
SHALE, black, much broken  SHALE, black, fissile, broken  COAL, and boney, or coal  COAL, and shale, 4" shale  SANDSTONE, shaley, dip 180, some irregular  bedding  SANDSTONE, shaly  SANDSTONE, dark and light, fine to medium  grain  SANDSTONE, medium grained, light with dark  laminae, dips 100, 20  SANDSTONE, Medium to fine grained, some  shaly beds  5' 2" 3' 8"  2' 0" 1' 5"  1' 10"  6"  6"  5' 2" 3' 8"  2' 0" 1' 5"  1' 0"  6"  6"  5' 2" 3' 8"  2' 0" 1' 6"  6"  6"  6"  5' 2" 3' 8"  2' 0" 1' 6"  6"  6"  6"  5' 2" 3' 8"  2' 0" 1' 6"  6"  6"  5' 2" 3' 8"  2' 0" 1' 6"  6"  5' 2" 3' 8"  2' 0" 1' 6"  6"  5' 2" 3' 8"  2' 0" 1' 6"  6"  6"  5' 2" 3' 8"  1' 0" 1' 6"  6"  6"  5' 2" 3' 8"  1' 0" 1' 6"  6"  5' 2" 3' 8"  1' 0" 1' 6"  6"  5' 2" 3' 8"  1' 0" 1' 6"  6"  6"  5' 2" 3' 8"  1' 0" 1' 6"  6"  6"  5' 2" 3' 8"  1' 0" 1' 6"  6"  5' 2" 3' 8"  1' 0" 1' 6"  6"  5' 2" 3' 8"  1' 0" 1' 6"  6"  6"  5' 2" 3' 8"  1' 0" 1' 6"  6"  6"  5' 2" 3' 8"  1' 0" 1' 6"  6"  5' 2" 3' 8"  1' 0" 1' 6"  6"  5' 2" 3' 8"  1' 0" 1' 6"  6"  5' 2" 3' 8"  1' 0" 1' 6"  6"  6"  5' 2" 3' 8"  1' 0" 1' 6"  6"  6"  5' 2" 3' 8"  1' 0" 1' 6"  6"  6"  5' 2" 3' 8"  1' 0" 1' 6"  6"  6"  5' 2" 3' 8"  1' 0" 1' 6"  6"  6"  6"  5' 2" 3' 8"  1' 0" 1' 5"  6"  6"  6"  6"  6"  6"  6"  6"  6"	4491 611
SHALE, black, fissile, broken  COAL, and boney, 5" coal  COAL, and shale, 4" shale  SANDSTONE, shaley, dip 180, some irregular  bedding  SANDSTONE, shaly  SANDSTONE, dark and light, fine to medium  grain  SANDSTONE, medium grained, light with dark  laminae, dips 100, 200  SANDSTONE, Medium to fine grained, some  shaly beds  2' 0" 1' 6"  2' 0" 1' 6"  4' 0" 6  9' 0" -	4491 101 4551 011
COAL, and boney, 5" coal  COAL, and shale, 4" shale  SANDSTONE, shaley, dip 180, some irregular  bedding  SANDSTONE, shaly  SANDSTONE, dark and light, fine to medium  grain  SANDSTONE, medium grained, light with dark  laminae, dips 100, 20  SANDSTONE, Medium to fine grained, some  shaly beds  2' 0" 1' 3"  1' 10"  10"  4' 0" 6"  9' 0" -	4571 0"
COAL, and shale, 4" shale SANDSTONE, shaley, dip 18°, some irregular bedding  SANDSTONE, shaly  SANDSTONE, dark and light, fine to medium grain  SANDSTONE, medium grained, light with dark laminae, dips 10°, 20°  SANDSTONE, Medium to fine grained, some shaly beds  1' 10" 10"  4' 0" 6"  9' 0" -  3"  4' 9" 3"	4591 0"
bedding  SANDSTONE, shaly  SANDSTONE, dark and light, fine to medium grain  SANDSTONE, medium grained, light with dark laminae, dips 10°, 20°  SANDSTONE, Medium to fine grained, some shaly beds  3' 2"  4' 0" 1' 0"  6"  9' 0"  - 3"	4601 10"
SANDSTONE, dark and light, fine to medium grain 4' 0" 6"  SANDSTONE, medium grained, light with dark laminae, dips 10°, 20 9' 0" -  SANDSTONE, Medium to fine grained, some shaly beds 4' 9" 3"	464 0"
grain  SANDSTONE, medium grained, light with dark laminae, dips 10°, 20°  SANDSTONE, Medium to fine grained, some shaly beds  4' 0" 6" 9' 0" - 3"	4681 011.
SANDSTONE, Medium to fine grained, some shaly beds 4' 9" 3"	4721 0"
shaly beds 4' 9" 3"	4811 01
QUATE Damb din IXV game calcite filled	4851 911
fractures 21 3 6 6 m	4881 011
SANDSTONE, medium and coarse grain, some silty beds 3' 0" -	491' 0"

"J.M. Black"

Asst. Mining Engineer

# LOG OF DRILL HOLE #4, MERRITT, B.C. (Cont)

					4911	0#
	Light, Massive, Medium grain, few coal partings, at 500' coarser massive, medium grain, coarse	101	On	•, 🕳	5011	Öu
DAMADIOND,	504-08	101	Ou	-	5111	Ou
SANDSTONE,	Massive	21	9#	~	5131	9#
CONGLOMERA'	TE, fine and sandy at top	51	$O_{\rm H}$	6n	5131 5181	9"
SANDSTONE,	medium to fine grain dark grey	31	3 <sup>11</sup>	**	5201	ΔĦ
SANDSTONE.	dip 50 grading down to shaly sandstone		ó"		5231	
SANDSTONE,	massive. light. medium grain	-			•	
C AND SHONE	dip 17°, some silty beds dip 5°		On	1' 0"	5301	On
SHINDIONE,	light, medium grain few silty bed dip 40 - 80 somewhat coarser at	<i>ವ</i> :	5	* .	Ì	
	535 and few coal fragments there	-	$0_{\rm n}$	ʻ, 🕶	5371	On
SANDSTONE,	light, medium grain, mostly massi	ve -				
	few silty beds dip 5, coaly partings 538	91	Oμ	-	5461	O11
SANDSTONE,	massive, light colored	51	0#	-	551 1	Oit
SANDSTONE,	thin bedded, silty, dip 5°	21	O.	-	553	0#
SANDSTONE,	Massive, light, medium to fine grain, few silty beds, coaly part	_	-	4.4	· · · · · · · · · · · · · · · · · · ·	
-	ings 557, 560, dip 50, few irregu	lar				
	dips	- ′8∗	Ou	611	5611	
SANDSTONE,	massive, calcite stringer at base		011		5691	$\frac{Ou}{Ou}$
SANDSTONE,	light and dark, thin bedded, shal	yγ	O <sub>II</sub>	1'0"	5721	0"

"J.M. Black"

Asst. Mining Engineer

4 July 46

Hole stopeed Jy 4 @ 575' in sandstone (H.S.)

# PROGRESS REPORT MERRITT D.D.H. # 4, July 2, - July 4

# JULY 2

Morning Shift: Afternoon Shift: Graveyard Shift: Coring 481 - 501 Coring 501 - 520 Coring 520 - 530

### JULY 3

Morning Shift: Afternoon Shift: Graveyard Shift:

- (

Coring 530 - 546 Coring 546 - 556 Coring 556 - 569

### JULY 4

Morning shift to noon:

Cored to 5721

"J.M. Black"
Asst. Mining Engineer
4 July 46

# PROGRESS REPORT MERRITT D.D.H. No 4, June 28 - July 2

# June 28

Morning Shift: Coring 380 - 395
Afternoon ": 395 - 411
Graveyard ": 411 - 431

June 29

Morning Shift:

Afternoon ":

Graveyard ":

Fishing for bit

Coring 431 - 436

436 - 447

June 30

Morning Shift:

Afternoon ":

Graveyard ":

Coring 447 - 459

# 459 - 472

Not working

July 1

Morning shift:

Afternoon ":

Graveyard ":

Not working

" "

Coring 472 - 481

July 2

Morning Shift: Cored to 491 at noon

"J.M. Black"
Asst. Mining Engineer
2 July 46

# PROGRESS REPORT MERRITT D.D.H. No 4, June 26 - June 28

# June 26

Morning shift: Afternoon Shift: Graveyard Shift: Coring 277 - 296 Coring 296 - 311 Coring 311 - 334

June 27

Morning Shift: Afternoon Shift: Graveyard Shift: Coring 334 - 341 Coring 341 - 361 Coring 361 - 379

June 28

Morning Shift to Noon

Cored to 3851

"J.M. Black" Asst. Mining Engineer,

# PROGRESS REPORT MERRITT D.D.H. No 4, June 24 - June 26

### June 24

Morning Shift: Afternoon Shift: Graveyard Shift: Coring 186 - 195 Coring 195 - 207 Coring 207 - 217

#### June 25

Morning Shift: Afternoon Shift: Graveyard Shift: Coring 217 - 245 Coring 245 - 263 Coring 263 - 277

# June 26

Morning Shift to noon:

Cored to 2861

"J.M. Black"

Asst. Mining Engineer

# PROGRESS REPORT MERRITT D.D.H. No 4, June 19 - June 24

#### June 19

Setting up drill.

#### June 20

Till noon completing set up.

Morning Shift: Afternoon Shift: Graveyard Shift: Casing to 15' Casing to 35 Casing to 60

June 21

Morning Shift: Afternoon Shift: Graveyard Shift: Casing to 90' Casing to 120' Casing to 150

June 22

Morning Shift:

Casing to 160, lost bit and fished for it till end of shift Not working

Afternoon Shift: Graveyard Shift:

Not working Not working

June 23

Morning Shift: Afternoon Shift: Graveyard Shift Not working Casing to 170 Casing to 151 - bedrock Coring 181 186

June 24

Morning Shift Noon

Drilling to 190 had trouble with Pump

"J.M. Black"

Asst. Mining Engineer

# LOG OF DRILL HOLE \$5, MERRITT, B.C.

Elevation 1975, approximately 471 H 28° W from Hole #1. Started July 18, 1946.

Clay and boulders

1781

	Thickness	Core <u>Missing</u>	Denth
SANDSTONE, light, medium to course grain dip 10°, few shaly	4.8.04		0-4 -
beds SANDSTONE, light, medium to course,	41 0"	, i 🏎	182' 0"
massive, getting shaly towards base	81 0"	-	190 <b>' 0"</b>
SHALE, dark, many coal partings,			_, -
some pyrite 9") COAL, 4")	21 011	11111	1921 01
SHALE, with many coal partings	6"		1921 6"
COAL, with little shale	6 n		1.931 0"
SHALE, with many coal partings +	411	—————————————————————————————————————	1931 4"
SHALE, dark grey with few coal pari		8 11	2001 0"
SHAE, mud, and coal particles	21 0"	116	2021 0"
SHALE, dark grey, few coal partings			
few sandy beds, dip 50 - 100	, 21 Oπ	3#	20 <b>71 0"</b>
SHALE, dark grey	21 311	-	2091 3"
SAMESTONE, light, redium to fine gr	ain.		-
mussive, shaly at 212'.	j1 9"	6# .	217 0"
S. DSTONE, light, medium grain	91 00	6" [	2261 0"
SAMOSTONE, light massive, medium to	-	·	_
course	1012"	***	236† 2 <sup>††</sup>
SHILE, dark grey, few coal partings			
sandy towards base	41 10"	<b>う</b> "	2411 01
SADDTONE, light, medium grained, fe	W		
shale beds	31 0"	<b>⊕</b> 24 ***	244! 0"
SHALE, dark grey	5 i Öu	3" 3"	2461 0"
SHALL, dark grey mud seam 249 6"	41 611	<b>3</b> 1	2501 611
Sacorom, light grey, fine-medium			
grain, cassivo	51 611	***	2561 0"
SINDUTORE, light and dark, few shal	8		
beds dip 10°	51 6"	***	2011 6"
SHAE, dark and medium grey, few sa	ndy	f	00/1 00
beds, dip 0° - 20°	14! 6"	5 <b>#</b>	2761 01
SHALE, dark, broken at 2771	51 Gu		2781 61
'UD, shale, coal	1, 0,	$Q_{ii}$	2791 61
SHAE, dark	31 GT	k.\$	2831 0"

SHALE, medium to dark grey, fractured	61	On		••	2891	0"
SANDSTONE, dark and light, medium to fine grain, dip 25 SHALE, dark SANDSTONE, medium grain thin bedded SANDSTONE, course, massive	41 11 31 41	311 611	_	3" 0"	29 <b>31</b> 2951 2981 3021	6# 0#
SANDSTONE, grey, nedium to rine grain broked at 303' 6", dip 300	31	6"		6"	306!	On
SHALE, dark grey some sandy beds coal partings at 306 6"	41	6"		6"	310	6ª

J.M. black

Asst. Lining Engineer

SHALE, grey, broken, little mud	31	6n 0n	3"	310' 312' 316'	Ou Qu
SHALE, sandy, coal partings 317' SANDSTONE, shaly, fine grain, dip 5-10° few coal partings SANDSTONE, light, medium grained	121			317' 329' 336'	6"
SANDSTONE, shaly, dip 15° SANDSTONE, light and dark, medium and fine grain, dip 12°	41	0" 0"			6"
SHALE, sandy, coal partings 344 S.ADSTONE, fine and medium SANDSTONE, light, massive coarse, very coarse		en en	3" -	3451	On
352 - 56 SHALE, sandy, dip 100 SANDSTONE, few shaly beds, fine grained	1 7	04	-	357! 362! 364!	0 <sub>11</sub>
SANDSTONE, coarse, lowest 6" fine grained SANDSTONE, light, coarse massive, dip 130 SANDSTONE, light, coarse massive		. ბ"	-	•	0 a 9 u
SAMBSTONE, shaly SAMBSTONE, shaly, poorly sorted, few coal partings SHALE, with abundant coal partings	3 71 3.1	Ω# Ω# Ο#	6.9 Cas	4121	64
COAL, (2) bone 2 seams), dip 130 COAL, (5" bone 5 seams) COAL, (1" bone 1 seam) COAL, (4" bone 3 seams)	21 21	Ов Ов Ов	611 911	417! 419! 421!	Ои Ои
SHILE, with abundant coal partings 2" coal STEDETCHE, shaly, dip 100 COMMONERATE, few sandy beds, very coarse at bise	2 र 2 र	0 u 0 u	9 n	423! 424! 441!	0u 0u
SHALE, black, fissile, broken, few coal partings	i'	3"	-	4431	

J.J. Black

Asst. Fining Engineer

#### LOG OF #5, D.D.H. MERRITT, B.C.

SHALE, sandy, few coal partings, dip 50	81	On		-	4511	On
SANDSTONE, light and dark, medium and fine grain few shaly beds, dip 5-20° SHALE, sandy, many leaf impressions, dip 10°	191	Ou Ou	21	0" 3"	4701 4761	0 n 0 u
SHALE, few sandy beds, many coal partings two l' seams coal, broken and slickensided SHALE, and coal borken, probable loss of coal	51	0"	21	On	4811	011
51 - 6 S NOSTONE, medium grain, few shale beds		0 u 0 u	71		490† 493†	
SHALE, sandy, much broken SAMDSTONE, fine grained, broken	31	0"		3 <sup>n</sup>	4951 4981	611
SHALE, dark and light, fine grained, thin		0"			4991	
bedded, broken, dips to 35° SANDSTONE, grey, massive, medium grained SANDSTONE, thin bedded, fine grained, dip 25°	41	en en en		4	504 408 513 1	6"
SHALE, sandy SaldDSTONE, dark, fine grained, some shale beds,	-	ен			515	
broken	41	611		~	5201	0"

J.m. Black

Asst. Mining Engineer

#### LOG OF MERRITT D.D.H. 25

SAMDSTONE,	dark and light, this bedded, upper	101 0"	_	5301-01	ft
d SEDOMONE	part broken, dip 30° light and dark broken, dip 25-30°			5351 0	
	light, coarse, massive, fine at				
5,2b.,202 y	540', conglomerate at 543', dip 35°	151 0" 11			
SAMDSTONE,	coarse, broken	51 0" 31	O tt	5551 O'	13

J.M. Black

# PROTRESS REPORT MERRITT D.D.H. 35. July 17 - 23.

### July 17

Setting up.

July 18

Till 2 p.m. completing set up.

Afternoon shift Graveyard shift

Casing to 30 Casing to 60

July 19

Morning shift Afternoon shift

Casing to 80 Casing to 110

July 20

Morning shift Afternoon not drilling

Casing to 140

July 21

Morning not drilling afternoon shift

Casing to 160

July 22

Morning shift Afternoon shift Casing to 170 Casing to 175 Bedrock 178

July 23

Morning to moon

Coring to 182

J.M. Black

# July 23

28

Morning shift: Afternoon Graveyard		Coring Coring Coring	to to to	194 217 246
Morning shift Afternoon Graveyard	July 24	Coring Coring Coring		
	July 25			

Morning to noon

J.M. Black Aset. Min. Engr.

Coring to 311

#### July 25

Morning shift Afternoon Graveyard Coring to 327 Coring to 357 Coring to 374

# July 26

Morning shift
Afternoon
Graveyard

Goring to 395 Coring to 417 Coring to 439

# July 27

Morning to 10 a.m.

Coring to 443

J.M. Black

# PROGRESS REPORT, MERRITT D.D.H. +5, July 27-29

### July 27

Morning shift Afternoon Graveyard Coring to 451 Coring to 470 Coring to 481

July 28

Morning shift Afternoon Graveyard Coring to 493 Coring to 503 Coring to 513

July 29

Morning to 10 a.m.

Coring to 520

J.M. Black

### PROGRESS REPORT, MEMBETT D.D.H. #5, July 29-30

July 29

Morning shift Afternoon Graveyard

Coring to 530 Coring to 550 Reaming out to 550

July 30

Morning shift to 10 a.m.

555

J.M. Black

# Merritt, B.C.

Log of D.D.H.  $\frac{\mu}{\pi}6$ . Drilled August 1946.

Located approx. 680' N 420 30' E (True) from Hole #4 Elevation approx. 1985'

4	विकास किर्यों के प्रिकृति के प्रतिकार प्रविदेश कि तो विकास के किन्ती है। जिल्हा	
4	28 18 2 1 16 17	
Service.	Patriced to	
All Control	Shalk a commission of the state	

Core examined October 4, 1946

Overburden

210: 6"

Shale, sandy Shale and sandstone Sandstone gray fine grained faw shaly		ore 6"	Missing	Depth 213' 215'	ı
Sandstone, grey, fine grained few shaly beds	4.	6"		219'	611
Shale, sandy, grey Sandstone, light, fine grained	-	6 <i>"</i>		2251	
Dip 15-200	91			234	
Shale, grey, sandy	41			238 <b>¹</b>	
Sandstone, light, fine grained, massive Sandstone and shale, interbedged	51	911		2431	9#
Dip 5-10°	51	311		2491	
Sandstone, massive, few shaly beds 254-255 grading to very coarse	7 1			256 t	
at base				0#01	
Shale, grey sandy with sandy interbeds	41			2 <b>60</b> 1 2701	
Shale, dark, few sandy beds	10'	611		270	6 II
Coal Shale goody	1 1	6"		2721	0
Shale sandy Sandstone, grey, massive, few shaly	4	J		n i n	
beds	<b>3</b> †			2751	,
Sandstone, grading down to shale	5 <b>†</b>		•	2801	
Sandstone, fine at top grading down to	_				
coarse and massive at base	91			2891	
Conglomerate	l'			2901	
Sandstone, light, massive, medium to					
coarse with conglomerate beds	24			314	
Shale, dark, some sandy beds, abundant					
coal partings at 325'	12'			326'	
Shale, with many sandy interbeds	5'	~ 48		331	a 44
Coaly partings		611		3 <b>31'</b>	ρ.,
Sandstone, grey thin bedded, fine grain	ea o'	6"		3341	
Dips 5-100	2 <b>'</b> 1'			335†	•
Coal partings	21			3 <b>37 ¹</b>	
Shale, grey, sandy	ج.			001	
Shale, broken and slickensided, some coal partings	61			3431	
Shale, dark with coal partings	81			351'	
Shale grey and getting very sandy at	•				
base	5 <b>'</b>			356 *	
Shale, grey	21			3581	
Shale, dark, with coal partings	ì.			3591	3"
Sandstone, light, medium grained, few					
coal streaks	7 1	9"		3671	

5C/	367	
}\/		

Conglomerate, light, mostly fine grain, some medium fairly coarse at 370-71, 375-76, 404-05 68' 435'	
Sandstone, light medium grain, few	
coal partings 10'9" 445'	9"
Sandstone, light, fine grain 1' 3" 447'	
Shale, dark few coal partings 1'6" 448'	611
Coal and shale 1'6" 450'	
Shale, dark, broken 2' 1'6" 452'	
Shale, grey with coal partings 1' 6" 453'	
Coal, 4" bone in 2 seams 2' 455'	
Shale with 4" coal 1' 456'	
Coal with 7" bone in 6 seams 3' 459'	
Coal with 9" bone in 7 seams Dip 10° 2' 6" 461'	6#
Shale with abundant coal partings 5'6" 465'	
Shale, grey 4' 469'	

J.M. Black

Location near centre of N.W. Quarter Section 14, Tp. 91 Elevation of surface, 1976.47 Started March 30th, 1909.

٧.	Started March Joth, 1707.	THI	CKN	E89		DEPTH
	Sand and clay Coarse gravel with clay and sand Sand Coarse gravel Clay and gravel		16 10 1 4 64	7# 0# 4	BED <b>ROCK</b>	26° 7° 27 31 11 96 11
	Conglomerate Sandy shale Coarse sandstone Conglomerate Light sandy shale Dark sandy shale Light sandy shale Conglomerate Light sandy shale Conglomerate Sandstone Sandy shale Conglomerate Light sandy shale Conglomerate Light sandy shale Conglomerate Dark brown shale with coal markings Sandy shale Sandstone Sandy shale Sandstone Sandy shale Conglomerate Sandy shale Conglomerate Sandy shale Conglomerate Sandy shale Conglomerate Conglomerate dark sandy shale Conglomerate dark sandy shale Conglomerate	•••	548173011501552113212511351	4032800 6172200300936000066	•••••	101 105 114 1266 1378 1446 1568 1668 1770 185 1668 1770 185 185 185 185 185 185 185 185 185 185
	Sandy shale Conglomerate Dark sandy shale with coal marks Sandstone Dark sandy shale	•••	131111131526	0	•••••	191 9
	Conglomerate Dark sandy shale	•••	1 3		•••••	196 9
	Sandstone (Dip 47 degrees) Sandy shale Dark sandy shale with coal marks	•••	1 5 2	4		206 <b>1</b> 208 <b>1</b>
	Sandy shale Dark sandy shale		6 14	4		228 5

Į

		THI CKNESS	DEPTH
•	Sandstone Dark sandy shale Light sandy shale	1 5 3	5
	Dark sandy shale Sandstone (Dip 38 degrees) Light sandy shale (Dip 30 degrees) Dark sandy shale	234 241 244 254 254 262 9 6 280 9 8 5 302 302 303 13 6 330	8
	Sandy shale Dark sandy shale	<b>8</b> 254	
	Light sandy shale	5262	8
	Sandstone (Dip 22 degrees) Dark sandy shale Sandstone (dip 14 degrees)	9 6 280 9	2
	Light sandy shale (Dip 14 degrees) Dark sandy shale COAL	1 9 303 2 5	2 11
	DARK brown shale Dark sandy shale Sandstone	13 319	4
	Sandy shale Sandystone (Dip 15 degrees) Dark sandy shale Sandstone	330 1 6	0
•	Sandy shale Sandstone Dark sandy shale Sandstone	2 0 1 5 2 4	4
	Sandy shale Dark sandy shale Sandstone Dark sandy shale	1 6	,
	Sandstone Conglomerate Sandy shale	4 ··· 372 2 4 _	<u>*</u>
	Conglomerate Sandstone Conglomerate Sandstone	12 9 392 2 2 6	1
	Light sandy shale Sandstone Coarse Conglomerate Dark sandy shale (Dip 15 degrees)	216	1 9
	Sandstone Dark sandy shale (Dip 27 - 38 degrees) Sandstone (Dip 33-20 degrees) Light sandy shale	89 8427 6 11446	9
	Dark sandy shale Conglomerate Dark shale with coal marks COAL Dark sandy shale	3 7 1 3 4 046	9 9
	nary sand sugar	ч у.	

# LOG OF NO. 11 HOLE CONTINUED

	THI	CKNI	<u> </u>		DEPT	H
COAL	• • •	1	41 3 41 2			-
COAL, bony		2	?,			
COAL		2	43			
COAL, bony		۲	Z .		472	1
	• • •	2	4	• • •	472	
Dark brown sandy shale		4	3 9 10			
DARK brown shale	• • •	1	72			
COAL DIGME SHRIE		_	-63			
Dark brown shale			7 <del>1</del>			
COAL	• • •	1	6		479	7
DARK, brown shale, coal markings		1 3	Ă	•••	479 482	ıi
COAL			77		4	
Dark brown shale occasional coal streaks		9	B.			
COAL			2			
Dark brown shale			_			
COAL			44266	•		
BROWN SHALE			Ź			
COAL			6			
Brown shale			6			
Light sandy shale (Dip 20 degrees)		14	3			
Sandstone		9 8	_			
Light sandy shale		8	10			
COAL	• •		8			
Sandy shale		1	_ *			
CO AT.		0	<b>3</b>		-/0	
Light sandy shale		38 11	9		568	
Sandstone		ΤŢ				
Light sandy shale		18				
Sandstone ( Dip 25 degrees		TO	0		610	4
Light sandy shale (dip 18 degrees)	• •		9		OTO	4
COAL 6'5"		13	2 `		638	3
	• •	נב	٤.	•••	٥٥٥	,
OOAL 6'3" Dark brown shale		7	6-			
COAL		え	6/ 8			
DARK brown shale		7	•			
Light sandy shale		337212				
Sandstone		ī				
Light sandy shale		2	6			
COAL			10	• • •	658	9
Light sandy shale		8	4		-	_
Dark sandy shale		2	-			
Sandstone		8 2 32 5	6			
Dark sandy shale		5				
00 AL 1' 10")						
COAL, bony 2")		_	_		p=	
COAL, 9") · · · · · · · · · · · · · · · · · · ·	• • •	2	9	• • •	709	4
Dark sandy shale		2 6 9	9			
Light sandy shale		9				

### LOG OF NO. 11 HOLE CONTINUED

•	THI CKNESS	DEPTH
SANDSTONE Light sandy shale Sandstone Light sandy shale Sandstone Light sandy shale	5 2 3 11 6 2 3	750 <b>7</b>

Original log apparently signed by Alfred T Wall, Benjamin Browitt, and N.L. Wimmler.



# DEPARTMENT OF MINES VICTORIA

20

SAMPLE RECEIVED FROM Mr. J. DICKBON

Mr. J. Dickson, Chief Inspector of Mines,

ADDRESS .....

Dopt. of Mines, Duildings.

<i>C</i>	LABORATORY No.	SUBMITTER'S MARK.	LABORATORY REPORT.	
<b>-</b> (	1364 0	Sample coal	l'oleturo	2.3
~		t hen by Inc. of Mines -	Volatile Communicatio Motter	33.9
. #		E. R. Michon	Fixed Carlon	50.6
		Worsilt Cool	^ah	13.2
		Inr. 24, 3744	Scition Ther al Units	10,470

The chore figures, except the initial Thurs! Units, are in per cont.

Morrish Cart, 1944.

DATE

Lossing de conscile acci Loss Calquis file "C" Is 1149 4358/24

CHIEF ANALYST AND ASSAYER

December 16, 1944.

Dr. John F. Walker, Deputy Minister of Mines, Victoria, B. C.

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#### Memo. re Merritt Coal Mines Ltd., Coorse Murray, Manager.

The Herritt Coal Mines Ltd. started prospecting operations on the old Diamond Vale property during 1942 and after a considerable time spent in investigating several of the seams exposed by the previous operations work was concentrated on what is now known as No. 4 Mine (this was formerly known as the new No. 3 Mine).

Coal production was started in 1943 during which year 2275 tons was produced and sold.

During the current year 9699 tons have been produced to the erd of November. During the last three months the production has fallen off. An inflow of voter into the wire caused a curtailment of operations persing discovery of the cource of this water but it is more probable that the reduction of output is due to a lack of demand.

Chief Inspector of Mines.

December 4, 1944.

The Honourable E. C. Carson, Minister of Mines, Victoria, B. C.

Dear Sir:

Re: Letter of Dr. J. J. Gillis, M.L.A., re diamond drilling Diamond Vale coal property.

I fully agree with Dr. Gillis that the Diamond Vale property, should be diamond drilled for the dual jurpose of establishing the value of this property in regard to coal mining and to determine the most advantageous point and means of operating any seams that may be found by drilling.

However, I note Dr. Gillis infers that the Provincial Government should do this drilling or assist in same but I am not aware of any present provision whereby the Provincial Government could do such work, directly or indirectly, even if it felt inclined to practically enter the coal-rining industry.

If the Covernment assisted the Diamond Vale property to the extent suggested by Dr. Willis there are a number of other coal fields from which a levend for similar assistance could be expected, viz, irincaton, Mat Creek, Fudson Hope, Campbell River, Manairo and others in most of which there are small mining operations working against the handicap of lack of knowledge that would be removed by diamond drilling their holdings. Those people would have an equal right to expect overnmental assistance.

I note that Mr. Murray and his associates have not the necessary money to cover a diamond drilling programme and as diamond drilling is only a small fraction of the cost of developing any seam, or seams, that may be found at depth they would be far short of the necessary money to develop the property unless they were able to induce outside capital to participate and, if ultimately, why not now.

I note the opinion of Boyle Bros., per Dr. Gillis, that the necessary drilling could be done for about eight thousand dollars but I am of the opinion that to efficiently drill the Diamond Vale property the cost would far exceed this; with the proviso, of course, that any lesser drilling may provide valuable information.

As an alternative to the suggested assistance by the Provincial Government, I would suggest that the office of the Coal Controller be contacted to see whether he would consider the drilling of the Diamond Vale property as part of the Dominion scheme of coal production. That office has full authority in such a matter and has already done diamond drilling at two British Columbia coal properties, viz, at the Telkoal property and the Fulkley Valley property, both near Telkwa.

In conclusion, I may say that diamond drilling of the Diamoni Vale property should prove of great value to the owners of the property, of considerable value to the community and to the Province cenerally but, as mentioned above, it is difficult to see how the Provincial Government could undertake, or assist, the drilling of the Diamond Vale property unless it is prepared to do similar work in other areas where it would certainly be requested.

Respectfully submitted,

Chief Inspector of Fines.

December 4, 1944.

The Honourable E. C. Carson, Minister of Mines, Victoria, B. C.

Dear Sir:

Re: Letter of Dr. J. J. Gillis, M.L.A., re diamond drilling Diamond Vale coal property.

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Respectfully submitted,

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MEMORANDUM

To James Dickson, Esq.,

1M-139-9929

Chief Inspector of Mines,

MINISTER O

DEC 4 1944

VICTORIA, B.C. December 4 1944

4148

Attached is a letter from Dr. J. J. Gillis,

M. L. A., Merritt, in which he urges that the Government carry on diamond drilling at the Diamond Vale Coal property.

I would appreciate your opinion as to whether or not such a programme would be of value.

Minister.

15 Charm

Encl.

November 8, 1944.

3776-44

E. R. Hughes, Esq., Inspector of Kines, Princeton, B. C.

Dear Sir:

I am in receipt of your letter of October 28th further to the matter of the water inflow in No. 4 Nine, Merritt Coal Mines Ltd., and note that Mr. Nurray is now fluming the surface water from No. 3 Nine but that the ground over No. 4 Nine may take some time to drain off.

I also note that both mines are idle strapt for pumping operations but that he is anxious to have the ban lifted on the advance of No. 4 Line slope. This is in his own hands as you have told him that the advance would be coverned by the lowering of the water level in No. 3 Line so that the whole matter will depend on the progress he makes with the pumping out of No. 3 Line to a point satisfactory to you.

Also note that when work is resumed no morkings will be permitted within 200 from the Micola River.

Yours very truly,

Chief Inspector of Mires.



#### DEPARTMENT OF MINES

Princeton, B.C. October 28th, 1944.

James Dickson, Esq., Chief Inspector of Mines, Parliament Buildings, Victoria, B.C.

Dear Sir:

I am in receipt of your letter of October 21st acknowledging receipt of a blue-print of plan of Nos.3 & 4 Mines, Merritt Coal Mines Ltd. and note your remarks on the possible source of the water entering No.2 Right level of No.4 Mine.

As mentioned in my letter of October 7th I do not believe that the inflow could be coming from any unsurveyed original prospect as any workings of such magnitude would have been known. The distance of No.2 Right level face from the Nicola River and also from the No.3 mine eliminates both these as possible sources; the water level in No.3 mine is at a lower elevation than No.2 Right level. Therefore this leaves the alternate solution that I have previously mentioned; that the water pumped out of No.3 mine is seeping through the measures. Also as previously mentioned this theory was given to Mr.Murray who disagreed. He now however, has changed his mind and as a result is fluming the water to a culvet under the railway. The ground in the vicinity above the face of No.2 Fight level is thoroughly saturated and it will take some time to drain off.

Both mines are idle except for dewatering and Mr.Murray is anxious to have the prohibition of advance in the Main slope lifted and I believe this would be in order as soon as the water level in No.3 mine has been lowered as far as the old East level; this providing that further dewatering keeps pace with the advance. There is no intention of advancing the Nos.2 and 3 Right levels but when work in the slope is resumed no workings will be permitted within 200' of the river.

Yours very truly, Inspector of Mines.

October 21, 1944.

E. R. Fugles, Esq.,
Inspector of Mires,
Princeton, B. C. Princeton, B. C.

Dear Sir:

I am in receipt of a blue-print of the plan, dated October 2nd, of the workings of Nos. 3 and 4 Mines, Merritt Coal Mines Ltd., together with the various prospecting workings in the immediate vicinity and, as you mentioned in our telephonic talk yesterday the plan does not throw any light on the possible source of the water entering Fo. 2 right level of No. 4 Mine.

The three possible sources are the river, 2001 distant, the mater pumped from No. 3 Mire, or the existence of some unknown abandoned workings.

The smell given off by the water underground rould seem to discount the river water. and the water numbed from No. 3 Wine mould probably be perated to the extent that much of the characteristic odor of old mire mater would be lost so that if these two possibilities are ruled out the presence of unknown workings may be suspected.

Yas any attempt been made to flume the water from Fo. 3 Fine to a point where it could be definitely eliminated as a source of the water entering No. 4 Fire or has any attempt been made by arilling from Ec. 2 Level to locate the source of the water?

It seems to me that the management is very dilatory in taking the necessary steps to definitely ascertain the source of the above inflow.

Fowever as the face of No. 2 Right Level is within approximately 150' from the Nicola River and the face of No. 3 Right Level approximately 200' from the river and both levels only a few feet below the river level there can be no further advance of these levels in any case and suggest that you write the management on this point and prohibit any further advance at any time. Also have a barrier line placed on the plan prohibiting any workings within 200' of the river as a protection against future workings tapping the river water.

Yours very truly,

Chief Inspector of Mines.

October 2, 1944.

3424-44

E. R. Hughes, Esq., Inspector of Mines, Princeton, B. C.

Dear Sir:

I am in receipt of your letter of September 28th, further to the inflow of water experienced at the face of No. 2 Right Level, No. 4 Mine, Merritt Coal Mines Ltd., and note this point is about 400' from the main slope and approximately 200' from the line of the Micola river at this point and also note that the upper level in the standoned No. 3 Mine, overhead, is almost inmediately above the No. 2 Right Level in No. 4 Mine and that both levels are in about the same distance and that the upper level is dry and partly accessible although the inside pillars have been extracted. Should the fact that this level in No. 3 Mine is dry not proclude any accumulation of water towards the inner end unless, of course, there is sufficient caving somewhere to form a dam.

However I note that Mr. P. M. Grenory is at present making a survey of the mine and this should nive some definite information on the above point.

The point you mention recarding the sulphurous odour of the water would naturally incline one to the belief that the water was from alandared workings and in any case it is satisfactory

to know that no advance will be made in the working faces on the right side of the mine until this matter is cleared up.

It would be appreciated if you will have a copy of Mr. Gregory's plan forwarded to this office as soon as available.

Yours very truly,

Crief Inspector of Kines.

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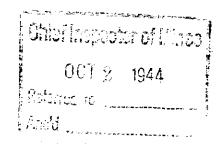
#### DEPARTMENT OF MINES

3424

Princeton, B.C.

Sept. 28th, 1944.

James Dickson, Esq., Chief Inspector of Mines, Parliament Buildings, Victoria, B.C.



Dear Sir:

I am in receipt of your letter of September 25th acknowledging receipt of my letter of September 23rd and note your enquiries re the Merritt Coal Mines Ltd.

During my visit of September 25th the inflow of water at the face of the No.2 Right level appeared to be less than on the occasion of my previous visit of September 20th. The No.2 Right level is in approximately 400' from the Main slope of No.4 mine and is thus approximately 200' from the Nicola river. The water has a slight sulphurous odour indicating it to be probably mine water. The uppermost level to the right in the old No.3 mine is almost immediately above the No.2 Right level of No.4 mine and the faces of these two levels are advanced when almost the same distance in a westerly direction; this uppermost level is dry and partly accessible, pillars have been taken out of the inside area.

lowered by about 100-feet down the slope since dewatering began it may still have a slightly higher elevation than No.2 Right level in No.4 mine. Mr.P.W.Gregory, Mine Surveyor, is presently making a survey of the mine which will give more detail than is presently available. In any case no work is being done on the right side of No.4 mine and according to Mr.Geo.Murray the mine will cease operations on Saturday September 30th; he is having trouble with the executors of the T.G.Smith Estate and a lawsuit is pending. It is possible that when the lawsuit is settled that operations will be resumed; although there is very little coal obtainable on the left side of the No.4 mine Main slope and the slope and right side is stopped. Resumption of development in the Main slope will not be permitted until the water elevation in No.3

mine is shown to be lower than any new slope advance. Development in the slope was prohibited last January for the same reason.

Drippers of water were always present in the No.1 Right level, No.4 mine, but as the level was so near the outcrop it was thought to be surface water, and probably was. So that when similar drippers were met in No.2 Right level little attention was given to the matter, especially insomuch as when the face advanced the further aback drippers dried up. However, the recent inflow of water was considerably greater than formerly encountered, but since this occurrence the former seepage in No.1 Right level has disappeared.

A further visit will be made to this mine on Monday next, October 2nd.

Yours very truly,

Inspector of Mines.



September 25, 1944.

3317-44

E. R. Yughes, Esq., Inspector of Mines, Princeton, B. C.

Dear Sir:

I am in receipt of your letter of September 23rd, enclosing copies of your report of inspection of:

Jackson No. 1 Nine Tulareen No. 3 Nine	Princeton "	on	Sept.	5th, 6th
Fedley Essot Fine	Medley	11	11	8th
No. 1 Granby Fine	Princeton	#1	11	12th
Copper Mountain Mine	Copper Mountain	+1	11	15th
Fat Creek Mine	Hat Creek	9.6	ff	18th
Coldwater Coal Mine	Merritt	<b>?</b> f	. #	loth
No. 3 Mine, Merritt C	oel Mines	11	Ħ	20th
No. 4 Mine, Merritt C		ય	11	20th

I note that you found general conditions to be satisfactory at above operations and also note your comments and recommendations on the points requiring your special attention, viz, the more general use of goggles at the Fedley Mascot and Copper Hountain mines.

Re the water inflow at the ace of No. 2 Right Level, No. 4 Mine, Merritt Coal Mines, which amounted to 20 to 30 gallons per minute it is most unlikely that this comes from a natural underground source and I am inclined to suspect the proximity of some unrecorded and unknown abandoned workings or, as an alternative a thinning of the strata between the present working and workings in an adjacent seam as pointed out in your letter of January 12th to Mr. G. Murray, manager, Merritt Coal Mines Limited.

I note that you have extended your prohibition of advance of the main slope, as per the
above letter, to include all workings on the right
(West) side of the slope and fully agree with this
precaution and if the face of 2 Right Level can be
reached it would be advisable to have some exploratory
drill holes put in to discover any information possible
as in the event of any unknown workings being in the
vicinity a thin barrier may fail at any time and unless
the source of this water can be determined and the
volume drained off it would require a dam in this
place to make sure of safety.

I note you expect to visit this mine again on September 25th (today) and have tried to contact you by phone to learn of any further developments.

How far has the No. 3 mine workings been devatered beyond the No. 4 Mine workings? From a plan here I note that the portal and upper part of #4 slope is approximately 600' from the Nicola river and with the pitch given, 250, a level starting at 200' from the bortal would have a minus elevation of 87' from that point and 40' below the rail level of the C.P. Rlw, so if the No. 2 Level has been driven anywhere near this distance (600') it is probably getting river water and if so this level should be securely dammed at once ani suggest that you look into this angle without delay.

Yours very truly,

Chief Inspector of Lines.



DEPARTMENT OF MINES

Princeton, B.C.

Stp / 3 (344 Sept. 23rd, 1944.

James Dickson, Esq., Chief Inspector of Mines, Parliament Buildings, Victoria, B.C.

Dear Sir:

Herewith enclosed please find the following copies of inspection reports:-

Jackson No.1 mine: British Lands Ltd., on Sept.5th,1944.

Tulameen No. 3 mine: Tulameen Collieries Ltd.,

on Sept.6th, 1944.

Mascot mine: Hedley Mascot Gold Mines Ltd.,

on Sept.8th,1944.

No.1 mine: Granby Cons.M.S.& P.Co.Ltd.,

On Sept.12th,1944.

Copper Mountain mine: Granby Cons.M.S.& P.Co.Ltd.,

on Sept. 15th, 1944.

Hat Creek Coal Mine: St. Eugene Mining Corp. Ltd.,

on Sept.18th,1944.

Coldwater Coal Mine: A.D.Allan & Partners,

on Sept.19th,1944.

No.3 mine: Merritt Coal Mines Ltd.,

on Dept. 20th, 1944.

No.4 mine: Merritt Coal Mines Ltd.,

on Sept. 20th, 1944.

With regard to the remarks on the report of the Merritt Coal Mines Ltd's Diamond Vale No.4 mine. A flow of water estimated at about 20 to 30 gallons per minute began to seep through near the face about one hour after a shot had been fired in No.2 Right level and officials decided to stop work in this place. The prohibition of advancement is merely to prevent any attempts at working on this side of the mine, which anyway was idle, until a further inspection has been made. According to mine plans this place is outside the boundary of the old mine, and the water level in this mine is now down to about 180' from the portal. The water may be coming from surface breaks or from some original prospect in another seam. I expect to visit this mine again on Monday Sept.25th.

Yours very truly,
- Gran R. Hold.
Inspector of Mines.

September 21, 1944.

P. Richards, Esq.,
Secretary to the Honourable Premier,
Victoria, B. C.

(

### Kemo, on Coal Properties in Kerritt District,

Coal has been produced in the Nicola Valley for well over thirty-five years.

The first colliery to operate being Middlesboro, which is situated across the Coldwater river a short distance from the town of Merritt. The year of highest production of this colliery was in 1911 when the output was 191,000 tons. This colliery closed down in March 1944. It was considered by the owners as not profitable to work it after the Dominion subsidy was cut off.

Under favourable circumstances this colliery could still be a large producer. At the present time a few men who formerly worked in Middleshoro colliery have leased a part of this coal field from the owners with the intention of working out some of the old pillars of coal left in No. 2 Mine. A. D. Allan and associates are the sen in question.

Across the Coldwater river from the hiddlesboro Colliery, the Perritt Coal Pines Ltd. has opened up the old Diamond Vale property which was worked for about ten years and produced over 30,000 tons of coal until it was closed down. The present company is operating Fo. 4 Mine Diamond Vale and last month produced over 1200 tons. They are also dewatering Fo. 3 Mine. This is all the mining at present in the Merritt district. The Perritt Coal Lines Ltd. employs about 25 men under the supervision of George Mirray, Minager.

Princeton, B.C.

Pebruary 25th, 1944.

Geo.Murray, Esq., Minager, Merritt Coal Mines Ltd., Merritt, P.C.

Chief Expender of Mines
MAR 2 1944
Patrice to a minimum
Ansid

Dear Sirt

Confirming my reports of inspection of the No.4 mine, Merritt Coal Mines Ltd. on February 22nd and 23rd,1944. A gas cap estimated at 3% of methane was found in the No.2 Raise, No.2 Left level, on February 22nd, and a gas cap estimated at between 3% to 4% was found in the same raise on February 23rd. The first inspection was made shortly after the torkmen had left the raise at the end of the torking shift, and the second inspection was made during the torking shift but torkmen were not mining coal in the raise on this later visit.

The mine is ventilated by natural means, and thilst this may have provided sufficient ventilation for initial development, the mine has now reached the stage where such natural ventilation is insufficient to furnish an adequate supply of pure air to dilute and render harmless noxious gases. Gas has been found in the above mentioned raise on each of the daily fireboss examinations made during the present month, and when miners are at work in the raise the place is ventilated by a small hand-driven fan installed at the foot of the raise. The foregoing facts are sufficient evidence that the present ventilation system is inadequate and that fan ventilation is required to be installed without delay.

The fact that methane has been found so early in the mine development makes it evident that this is a potent-ially gassy mine where careful detailed attention is needed in planning future development with regard to efficient ventilation, and where particular attention is required to be given to the strict observence of the regulations governing shot-firing and the treatment of roadways to prevent the accumulation of dangerous sust.

The prohibition of shotfiring in the No.2 Left level and the adjacent No.2 Esise was ordered by me because of the hazard attendent on the firing of shots where the normal

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#### DEPARTMENT OF MINES

Princeton, B.C.

February 25th, 1944.

James Dickson, Esq., Chief Inspector of Mines, Parliament Buildings, Victoria, B.C.

Dear Sir:

As recently requested by you, I am today forwarding, by C.P.R.Express, a sample \*\*
of coal taken from the No.4 Mine, Merritt Collieries
Ltd. The sample was collected from the face of
No.2 Right level, on February 22nd. This sample is
representative of the seam being worked, a section
of which is as follows:-

Coal	1'	2".	
Rock			3".
Coal	1'	gn.	
Rock			2".
Coal		<u>8</u> 11	
	31	<u>4</u> ".	<u>5</u> "•

Yours very truly,

Inspector of Mines.

Drepared at dr. Walkers reques

 $\mathcal{K}$ 

June 23, 1944.

Output of coal from Diamond Vale Colliery, Ferritt Coal Fines Ltd., George Murray, Manager, August 1943 to Fay 1944.

l'onth	Run Mine		Slac	k	Total Outm	
1943 August	87 t	ions	rie aub		57	tons
September	92	rf	450	tons	542	*1
October	113	ft	545	**	€58.	t1
Povember	186	11	445	11	631.	ŦĪ
December	136	**	503	Ħ	639	ti
1944 January	75	*1	78 <b>3</b>	11	858	tt '
February	48	11	195	#1	243	11
larch	18	f1	207	71	225	ff .
April	57.	tt	704	**	761	11
Lay	194	tt.	605	ff	1096	11
rotal	1006	**	4734	**	1740	ff

j |



# DEPARTMENT OF MINES VICTORIA



### James Dickson, Esq., Inspector of Mines,

SAMPLE RECEIVED FROM .....

#### BUILDINGS.

**ADDRESS** 

LABORATORY No.	SUBMITTER'S MARK.	Provisional LABORATORY REPORT.	
13709 B	C. Grahan	Moisture	0.7
	Sample of coal taken	Volatile Combustable Matter	21.3
	at face of Main Level,	Fixed Cerbon	68.3
	Hasler-Cresh,	Ash	9.7
		Eritish Thormal Units	13,660
13710 B	E.R. Hughes	Moisture	2.6
		Volatile Combustable Matter	35.4
	Wine (No. 2) Herritt, P.C.	Fixed Carbon	53.6
		Ash	8.4
		British Thormal Units	13,800
13711 B	Samp. of coal	Hoisture	9.9
	from core of fiamond-drill	Volatile Combustable Matter	37.5
	et 400° depth, Australian-	Fixed Carbon	36.3
	sampcollecte from Gld Core	d Ash	16.3
	by J.A. Mitchell	British Thermal Units	8,900
	(nc. 3)	The above figures, except the Thermal Units, are in per cent	

March 7th, 1944.

DATE.....

S.CB. Camp

February 28, 1944.

749-44

E. R. Hughes, Esq., Inspector of Mines, Princeton, B. C.

Dear Sir:

I am in receipt of your letter of February 25th, covering a sample of coal from No. 4 Fine, Ferritt Collieries Ltd., and will have same analysed and forward you a copy of the analysis as soon as available.

Yours very truly,

Chief Inspector of Mines.

January 19, 1944.

264-44

E. R. Hughes, Esq., Inspector of Mines, Princeton, B. C.

Dear Sir:

(

I am in receipt of your letter of January 17th, enclosing a copy of your letter of January 12th to Mr. George Murray prohibiting the further advance of the face of the Main Slope of No. 4 Mine, Merritt Coal Mines Ltd., until the verkings of the adjacent No. 3 Mine (overlying No. 4 Mine workings) are dewatered to a point not less than 150 ' in advance of the No. 4 Mine, Main Slope. This condition to be observed until such time as No. 3 Mine may be completely dewatered.

I fully endorse your action in this matter and your reasons for same.

Yours very truly,

Chief Inspector of Kines.

P.S. On your next visit to Diamond Vale please take a sample of the coal and forward here for analysis.



DEPARTMENT OF MINES

Princeton, B.C.

January 17th, 1944.

James Dackson, Esq., Chief Inspector of Mines, Parliament Buildings, Victoria, B.C.

Dear Sir:

of a letter sent to Mr. Geo. Murray, Manager, Merritt Coal Mines Ltd. restricting further admance in the Main Slope, No.4 Mine, until the workings of the abandoned, and flooded, No.3 Mine have been dewatered to a point of more than lfo-fect in advance of the Main Slope faceline.

This face was not vorking at the time of my inspection but it was the managements intention to resume vork there in the near future. It was understood when this mine commenced that the old No.3 Mine vould be kept dewatered in advance of new vorkings and some dewatering was done but insufficient to keep pace with developments. Whilst the management intended to continue slope development no provision was being made for advance dewatering; therefore I believe it is in the best intrests of safety to curtail further downward development until sufficient dewatering has been done.

Yours very truly,

Inspector of Mines.

Merritt, B.C. January 13th, 1944.

Geo. Murray, Esq., Manager, Merritt Coal Mines Ltd., Merritt, B.C.

Dear Sir:

(

Herewith enclosed please find, in duplicate, my report covering today's inspection of the Ho.4 Mine, Herritt Coal Mines Ltd. It would be appreciated if you would kindly have the original posted up at the mine, retaining the duplicate for your own files.

The general Remarks on the enclosed report reads as follows:- To work is presently being done at the face of the Main Slope and notice is hereby given that this face must not be further advanced until the abandoned workings of the adjacent No.3 Mine have been dewatered to a point at least 150-feet in advance of the slope face. This margin of at least 150-feet must at all times be strictly maintained until the No.3 Mine has been completely dewatered. The above order is given as a precautionary measure to safeguard against the possibilty of inundation from the nearby flooded workings of the abandoned No.3 Mine and is given in accordance with Section 87 of the Coal Mines degulation Act.

The seem presently being developed in the No.4 hime underlies the workings of the abandoned No.3 hime, these workings are known to be flooded to within approximately 100-feet from the portal. A peculiar feature of the coal seems of the Ricola Valley coalfield is their departure from conformability. Thus two seems which at one point may be 60-feet apart, may latter converge, or almost so. This peculiarity may exist in the precent workings and if so could permit of the penetration of the flooded workings by the present active workings, with possible loss of life. You are therefore directed to strictly comply with this order and an early admowledgement of this letter is requested.

Yours very truly,

Inspector of Tines.

C.C.Jemes Dickson.



DEPARTMENT OF MINES

3010

Princeton, B.C.

August 26th, 1943.

James Dickson, Esq., Chief Inspector of Mines, Parliament Buildings, Victoria, B.C.

Dear Sir:

I am in receipt of a copy of your letter to Mr.George Murray, Manager, Merritt Coal Mines Ltd., dated August 14th approving the second copy of the proposed plan of development of the No.4 mine, Merritt Coal Mines Ltd. and note that Mr.Murray objected to the adoption of a panel system in this developemt on the grounds that only a limited area will be included in the present operation.

Yours very truly,

Inspector of Mines.



DEPARTMENT OF MINES
OFFICE OF THE INSPECTOR

28

Princeton, B.C.

August 13th, 1943.

James Dickson, Esq., Chief Inspector of Mines, Parliament Buildings, Victoria, B.C.

Dear Sir:

I am in receipt of a copy of your letter to eorge Murray, manager, Merritt Coal Mines Ltd. dated August 7th,1943, re proposed plan of development of the underground workings of the No.4 mine. It is noted that the submitted plan has been returned with the suggestion that marked portions be omitted.

Mr.Murray said he was having another proposed plan of development drawn and I expect to obtain a copy on my next visit to the mine. So whilst at present I am unaware of the nature of the marked portions on the plan it is noted that Mr.Murray's, attention was directed to the provision of barrier pillars rather than depending on stoppings at a later date.

It is difficult to understand why, in this day and age, responsible coal-mine officials should continue to be obsessed with the arriquated idea of continuous open pillar work, with its eventual costly, and sometimes dangerous, sealing at a later date.

Yours very truly,

Inspector of Mines.

August 14, 1943.

2889-43

George Marray, Esq., Manager, Merritt Coal Kines Ltd., Box 305, Merritt, B. C.

Dear Sir:

I am in receipt of your letter of August 11th, enclosing the second copy of your proposed plan of development of No. 4 Mine, Perritt Coal Mines Ltd., and note your objection to adopting a system of panels in this development.

I am of the opinion that this is a short sighted policy if there is a possibility of a large mine being developed. However, as you anticipate that a limited area will be included in the present proposed operation your plan, as submitted, is hereby approved.

Yours very truly,

Chief Inspector of Fines.

c.c. Lr. C. R. Hughes.

# MERRITT COAL MINES LIMITED

P. MALONE, President.

I. SISCO. Vice-President.

G. MURRAY, Manager.

2889

Box 305

MERRITT, B.C., August 11th. 1943

Mr. James Dickson Chief Inspector of Mines Victoria B.C.

AUG 14 1949

Dear SIR

I am inreceipt of your letter of the 7th, inst.& also plan which was submitted for your approval.

I do not take the same view of proposed present development which you apparently do; as I do not consider that the site of the present develop--ment will be the area in which any long-term plan of development would planned.

The present plan of development; as far as the area of operations are concerned; was decided upon following a discussion which I had with Mr G.S. Vissac (Engineer for the Emergency Coal Production Board) at Ottewa.

The modern practic ; or panneling; was evolved some 35 years ago : but has been practised but little in the western part of B.C.

This has not been due to a lack of appreciation of the merits of this method of operation & development; but is due to the very faulted nature of the coal-areas in this part of the Province.

Prospecting done to date by the above Co. has proven the existance of faulting within the area in the plan submitted to you.

While panneling, as a method of development, is an ideal method in very large and regular coal-fields, it also has its disadvantages, such as higher initial development costs, and the retarding of production in the initial stages of development.

Having in view the possible limited area of the proposed present develop -ment the questions of development costs & initial production are very

# MERRITT COAL MINES LIMITED

P. MALONE, President.

]. SISCO, Vice President.

G. MURRAY, Manager,

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Page # 2

Box 305

MERRITT, B.C., August 11th 194.... 194....

Mr. James Dickson Chief Inspector of Mines Victoria B.C.

important items as far as our Co. is concerned, & I presume that higher production,

in the quickest possible time is or should be very desirable to you.

We are ready to produce coal tomorrow , and I feel that this the most important consideration for the present, and am again submitting a copy of our plan of development for your approval; which we must have before starting to produce.

Yours very truly

G. Murron Mer.

Merritt Coal Mines Ltd.

August 12, 1943.

2856, 43 -

W. J. McPadyen, Beq., Manager, The Royal Park of Carada, For Westsanstor, B. C.

Dear Sir:

### Ra: Digword Vale Collicries.

Your letter of August 7th to the Deputy Finister of Mines re above was referred to this office, and in reply beg to say that the above property, or at least part of it, is now being operated by the Merritt Mines Ltd. and the work to date has consisted of prospecting in the inhediate vicinity of abandoned slope workings and, more recently the dewatering of some of these abandoned workings. This has now been done and I believe the Company expects to start the production of coal during the present month.

I believe the Merritt Coal Mines Ltd. has control of an extensive area but it will require considerable development and prospecting before the value of the property can be established.

Yours very truly.

Chief Inspector of Mines.

The Royal Bank of Canada

PLEASE ADDRESS ALL COMMUNICATIONS TO THE MANAGER

INCORPORATED 1869

28

CABLE ADDRESS ROYALBANK"

ON THE SECOND

NewWestminster, B.C.

August 7, 1943.

Dr. J. F. Walker,
Deputy Minister of Mines,
Province of British Columbia,
Victoria, B. C.

Re Diamond Vale Collieries, operated by Corge Murray.

Dear Sir:

of the late T. J. Smith and from time to time have been advised of certain developments in regard to the reopening of the mine. Inasmuch as our information does not appear to be very accurate, we would appreciate it very much if you could give us a brief report as to the present status, that is to say, is it being operated and has it possibilities of developing into a moderate-sized mine, and is the coal of good quality. Any information you can give us,

Yours truly,

MANAGER.

H.W.

August 7, 1943.

2752-43

George Murray, Esq., Manager, Merritt Coal Fires Ltd., Merritt, B. C.

Dear Sir:

I am in receipt of your letter of August 1st, enclosing a blue-print showing the plan of proposed development of the unlerground workings of the 4 mine of the Verritt Cont Hims Abd., this plan being on a scale of 1" - 100' and signed by 0. 0. Corbett, 8. C. Line Surveyor.

I note that it is proposed to follow a straight pillar and stall spates involving the three main slopes and suggest that you consider the advisability of omitting the part of the levels marked on the print, which I am returning for your further consideration.

is this is proctically a new field with the possibility of the suchings extending for a considerable distance it would make for prester efficiency in the noin slopes were isolated from the governl workings as such as possible by cours of a barrier pillor rather than basis; to depend on atoppings at a later late. This could also be of material assistance in the raiter of for ing the workings into reparate parels in accordance with modern practice.

Fleaso let in law pure colorts on shive and a copy of any vertex by them.

Zerra very brely,

Chief Depostor of Mines.

## MERRITT COAL MINES LIMITED

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MERRITT, B.C., Aug. 1,1943. 194

Jas.Dickson, Esq., Chief Inspector of Mines, Victoria, B.C.

Dear Sir:

Please find enclosed herewith Plan of No.4 Mine of this Company(formerly No.2 Mine of the Diamond Vale Colliery) showing in dotted lines the scheme of proposed development.

The pillars are to be 80 ft.throughout, with levels right and left off the slope.

The fan shaft is to be repaired and when it becomes necessary a fan withnhouse to be set up on the surface.

On the right side a connection is to be made with the new travelling road which will be the return in due course from that side by way of the proposed overcast shown on the plan.

For the relationship of this to the other seams we refer you to the plan of May 252A, 1943 already in your office.

We trust to receive your early approval of this scheme of development.

Yours truly,

Merritt Coal Mines Ltd.

per <u>G. Meinak</u> Manager.

131-5249

### MEMORANDUM

TO James Dickson, Esq.,

Chief Inspector of Mines,

FROM THE

JUL I 5 1948

DEPARTMENT OF MINES,

Buildings.

والمكافرة المراوعي Aubrey F. Roberts, who is interested in the Diamond Vale property, has asked if it would be possible to obtain a map showing the relative position of the Middles-boro operations with the Diamond Vale property. Some suggestion has been made that Diamond Vale should permit Middlesboro to go into the Diamond Vale property through the old No. 2 shaft and he would like to be clear of the relative positions.

Is there anything you can do about this

request?

JFW:JP

X

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John F: Walker, Esq., Deputy Minister of Mines, Victoria, B. C.

Delag Sirin (months D

Re your memo, of July 14th re the request of Mr. A. F. Roberts for a map show-ing the relative position of the Middlosboro Collicates with the Dissont Male property, I bag to say the above properties have a common boundary, viz, the middle of the Coldenter river, on the side of the Dissond Male property whose the Dissond Male chafts (abardone) are situated and where the Mo. 2 slope of Middlesboro Williams appearables that boundary In the Difficulty of the Dissond Male chafts (abardone) are the Difficulty appearance that boundary In the Difficulty one lies appearable for a say pears so that no one has any provincing of its condition.

In the absorce of definite information, I amended the improperty for held by Mr. Refer to on the property for held by Mr. Potents is on the opposite side of the basin from the clove-critical lander; out over and tone, if the fact of the re-

I had a plan starte the student Vale shalts on the confirms from some ord if in. Roberts should have a copy of the plan it would be very acceptable for our files. The iste in. T. J. Smith provised reveral it was to formed this plan but failed to to so.

. Off, the record I may say that when our Linister and I were in Ferritt on June 25th the possibility of using the absidered No. 2 Slope of Middlestoro Collieries to reach the seams on that side of the Diamond Vale property was discussed with Mr. Pairfoull, manager, liddlesboro Collieries, and from that discussion I am under the impression that the Middlesboro could be willing to enter! negotiations to this end tith responsible parties.

Yours very truly,

Chiof avagentor of Pircs.



THE PROJECT OF BRITISH COLUMNA

DEPARTMENT OF MINES
OFFICE OF INSPECTOR

1.070

Princeton, B.C.

June 18th, 1943.

James Dickson, Esq., Chief Inspector of Mines, Parliament Buildings, Victoria, B.C.

Dear Sir:

C

I am in receipt of a copy of your letter to Mr. George Murray, Manager, Merritt Coal Mines Ltd., dated June 4th, approving of proposed plan of development of the Provitt mine.

During my recent visit to Merritt, June 15th it was found that this new development had aleady been abandoned; the exterial and track had been removed from the new slope and purface preparations were being made for a new opening pear the old No.2 mire. Mr. Murray was not present at the time of my visit but he had three workmer employed on this new surface work.

I believe that in any further new proposed plans of development at this property consideration should be given to blocking off the proposed development into papels requiring windown realing and minimum loss of cost in the event of bosting. This would obttate having extensive sobareas open which, in the frince on District, has already given some browtle.

Yourn werr truly,

Thompson of Mass.

June 4, 1943.

2015-43

George Murray, Esq., Manager, Merritt Coal Mines Ltd., Merritt, B. C.

Dear Sir:

I am in seceipt of your letter of May 20th, and a copy of your plan of proposed development of the Provitt nine, situated on Section 14, Township 91, rear Perritt, the said plan being dated May 25th, 1943. I note this plan was nade by Mr. S. Corbett, which surveyor, but as it is unsigned, I am enterprine this plan for your signature or that of Mr. Corbett.

I note that the denatoring of the old markings will be carried out in advance of this new development. I also note that three rain parallel slopes are project.

The general proposed plan of development is satisfactory and hereby approved. Nowster I note that the chain follows of your asin
alone explorates from an adding the line of the
step is have actually a thick and only 10 ob right
enals to the pitch with the result that at
custiderable lepth this scall size of pillar may
be succeptible to enablance. I would suggest
that you live foll confidencing to the advisability
of forting larger and, or literar, pillars in
your wain close space.

Yours very tenty,

# MERRITT COAL MINES LIMITED

50 M 1 800		
	B.C., May 29th.	1043
MERRITT,	B.C. may zaetty	194.9.
•	· ·	

MrJames Dickson Chief Inspector of Mines Victoria B.C.

Dear Sir.

I am enclosing under separate cover, a plan of the proposed method of development of the Browitt Seam situated on Sect. #14. : Township #91; near town of Merritt B.C.

The plan was prepared by Mr. G.SCorbett, Mira Surveyor.

Dewatering of the old workings will be carried out in advance of the new development .

Please advise me if the proposed plan of development meets with your YOURS TRULY approval.

G. Murro

Merritt Coal Mines Ltd.

### MERRITT COAL MINES LIMITED

MERRITT, B.C. May 3. 194 3.

James Dickson, Esq.,

Chief Inspector of Mines.

Victoria, B.C.

Dear Sir:

We are in receipt of your letter of May 1st with print of plan of No.3 Mine, Diamond Vale Colliery, filed with your office in 1915.

We are enclosing a print of our plan shewing the extended workings of this mine as shewn on plan secured with documents from the executor of the Smith Estate; you will note that the position of the extended workings are not shown to be as extensive as the markings on your print would indicate.

However, we are not at present contemplating any mining of that seam, but are confining our effects to develop workings in the Spowitt soam which has approximate y 140 feet of colid measures between it and the No. 3 Mine.

The prospect shewn on the lower right hand part of the plan has been abandoned for the present (marked New Prospect).

As no beach mark was available at the time we assumed an elevation of 180,00 on top of rail on the C.P.Ry. line to Nicola North of the Tipple.

The plan of No.2 Mine shown was obtained from description by Mr. Thomas Rowbottom who was Mine Foreman in that Mine when it was closed.

Yours very truly.

Merritt Coal Mines Ltd.,

per g. Musses Megr.

ere eggi julian julian.

# MERRITT COAL MINES LIMITED

MERRITT, B.C. Way 3. 194 3.

this sales and successions

James Dickson, Esq.,

Chief Inspector of Mines.

Victoria, B.C.

Dear Sir:

We are in receipt of your letter of May 1st with print of plan of No.3 Mine, Diamond Vale Colliery, filed with your office in 1915.

We are enclosing a print of our plan shewing the extended workings of this mine as shewn on plan secured with documents from the executor of the Smith Estate; you will note that the position of the extended workings are not shown to be as extensive as the markings on your print would indicate.

However, we are not at present contemplating any mining of that seem, but are confining our efforts to develop workings in the Browitt seam which has approximately 140 feet of solid measures between it and the No. 3 Mine.

The prospect shewn on the lower right hand part of the plan has been abandoned for the present (marked New Prospect).

As no bench mark was available at the time assumed an elevation of 100.00 on top of rail on the C.P.Ry. lin to Nicola North of the Tipple.

The plan of No.2 Time shown was obtained fi description by Mr. Thomas Rowbottom who was Mine Foreman in that L. e when it was closed.

Yours very truly.

Marritt Coal Mines Ltd.,

per J. Musses Meg.

May 28, 1943.

George Kyrray, Esq.,

Manager,

Morritt Coal Mines Ltd.,

Merritt, 3. C.

Dear Sir:

This will acknowledge receipt of your letter of May 3rd, in which you enclosed a print showing the vorkings of No. 3 mine, discord Vale Colliery, and note that this would indicate that the workings were less extensive than assumed in the marked blue print I forwarded to you on May 1st.

I also note that your print shows the other small prospecting operations that have been carried out in this impediate area and this is of much service.

However, I note that the print is undented except for the notation March 31st, 1943, which is probably the date of printing for your new company purposes, and there is no mention of who made the survey or plan and there is, of course, no some of establishing whether the print shows the earlies at take of abandonment.

With the above doubtful points in wind I am of the opinion that the precautionary safety line as indicated on the print sent to you on Tay lat offers the only satisfactory safeguard should any approach be with to the markings of To. I like from any woint below the samples level of the water in that wire.

I note that you have discontinued your prospecting operation to contact the No. 2 seam and that you are confining your efforts to develop the Browitt seem some 140' above the Bo. 3 mine in No. 2 seam.

I have been away from Victoria for some time hence the delay in replying.

Yours very truly,

Chief Inspector of Nines.

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DEPARTMENT OF MINES

Princeton, P.C.

DEPT OF WHES

May 6th, 1943 MAY 8

James Dickson, Esq., Chief Inspector of Mines, Parliament Buildings, Victoria, B.C.

Dear Sir:

I am in receipt of your letter of May 1st,1943 enclosing a copy of your letter to Mr. George Murray, Manager, Diamond Vale Colliery, accompanying a print of plan of No.3 Mine, Diamond Vale Colliery filed in your office in 1915.

The position of the red line circumscribing the assumed old workings of this mine is noted. During my last visit to Merritt, April 21st, the new slope was down a distance of approximately 200° and was yet in surface gravels and sand, no colid measures having been encountered. Being disappointed in not having contacted the coal Mr. Murray said he did not intend driving any further in this working. He intends to start a new drivage in the unpermost seam of the series - the Browitt seam. The workings of this old mine were not very extensive and the slope is still open and accessible for some distance down. Mr. Murray intends to drive a counter, with cross-cuts, to this slope, until the water level is reached, then purping out of the lower part of the slope will be necessary.

During my last visit Mr.Murray gave me a blue-print of a plan showing the old workings of the No.3 Mine, No.2 & No.3 seams, old prospects and the present new slope; also showing a section of the five seams in this area. Mr.Murray was informed that before mining coal was contended he must submit a plan of the old and proposed workings, he said he would send you a copy of the plans in the near future. I expect to visit Merritt next week in connection with the War-time Prospectors Grub-stake Act and will attend to the points mentioned in your letter.

Yours very truly.

Inspector of Mines.

May 1, 1943.

E. R. Hughes, Esq., Inspector of Mines, Princeton, B. C.

Dear Sir:

Accompanying herewith please find a copy of self-explanatory letter to Mr. George Murray, Manager, Diamond Vale Colliery, and a copy of the plan of No. 3 Mine, Diamond Vale Colliery referred to in the letter.

If not already done a survey should be made showing the location of the new prospect on this property in relation to the position of the abandoned Fis. 2 and 3 Hires, and I suggest that you look into the different points mentioned at once.

Yours very truly,

Chief Inspector of Dires.

Eres.

Eay 1, 1943.

George Furray, Esq., Fenager, Discond Vale Colliery, Ferritt, 3. C.

Dear Sir:

(

Accompanying herewith please find a print of plan of No. 3 Nine, Diamond Vale Colliery, filed in this office in 1915. To this has been added the assumed position of additional workings reported in the 1917 Aroual Report of the Finister of Hines, these additional workings being the noby batched lines with the red line showing the assumed position of the extremity of the lookings of this No. 3 Line.

The provisions of the Coal-mines
Regulation Act, Section 80 (1937 Inerdicut)
shall apply to any workings approaching to within
500 feet from this red line.

There is no plan on file of the abardoned No. 2 mine of the Discoul Vale Colliery, so that asid biomal precoutions will have to be observed in the ease of any workings approaching the general vicinity of the No. 2 line area.

If you have a plan did ing the corbings of the abendance Nos. Sound 3 times a copy well's be appreciated. Buy plan, or place, you may have could be reproduced here should you have only one copy.

Your sally maply and on sais se slove and in appropriate.

Yours very brole,



OFFICE OF THE
REGISTRAR OF COMPANIES
VICTORIA, B.C.

28

October 3rd, 1941

3009

MEMORANDUM	FOR	THE	CHIEF	INSPECTOR	OF

Re: name Diamond Vale Coal Company Limited

Chief Inspector of Illians	
OCT / 1941	
Referred to	
Jack .	

Application has been received at this office to know whether the above name is available for incorporating a new company and I shall be glad to hear from you if you have any record of any company of this name or of any coal company which is using the name, Diamond Vale.

About ten years ago your office supplied this office with a list of registered names of coals under the "Coal Sales Act" showing producing mines and companies. Could you oblige me with an up-to-date list?

list m 1940 A.R.

Plened the Some of the Ost 4/41 I am,

Your obedient servant,

WLL/MS

Deputy Registrar of Companies.

# THE VANCOUVER DAILY PROVINCE

ADD TELL A AND INDIVIDUAL CATRONIS TO THIS HOUR IN E

3011

October 2, 1941.

Mr. James Dickson, Inspector of Mines, Victoria, B.C. Chief hapauter of Mines 00T/ 1041 deferred to

Dear Mr. Dickson:

Thanks very much for your kindness in permitting me the use of Diamond Vale reports and maps, which I trust have been returned to you safely.

Our project is well under way now and I will let sincerely, Roberts you know how it progresses. ( ' / + .)

Yours sincerely,

AFR: HW

December 31st, 1940.

J. F. Walker, Esq., Deputy Kinister of Mines, Victoria, B. C.

Dear Sir:

As per your memorandum of December 11th, I enclose herewith a copy of report by Inspector J. G. Biggs on Lot 167 and part of Section 14, Township 91, both in the Kamloops Division of Male District, and situated near Resellet.

The above as requested by the Hon. A. Wells Gray, Elimister of Lands.

Yours very bruly,

Chief Inspector of Lines.

Snel.

3631/40.

Princeton, B.C., Dec. 21st, 1940.

James Dickson, Esq., Chief Inspector of Mines, Department of Mines, VICTORIA, B. C.

Dear Sir:-

I am in receipt of your letter of the 13th instant, and note you have had a request from the Lands Department for information regarding lot 167, comprising 116 acres, and part of Section 14, Township 91, both in the Kamloops Division of the Yale District and situated adjacent to Merritt; also a report on any mining equipment at present on the above-mentioned lots, covering boilers, hoists, screening plant etc., giving sizes and apparent conditions. If the mine is on the above property, give any information regarding the accessibility of the workings etc.

In reply would state that while in Merritt on the 19th day of December, I interviewed Mr. Robert Couper, the Government Agent, in regard to the information required, and found he had no large district plan and had to refer to a district plan scaled one mile to the inch.

You are quite right in assuming the lands referred to in your letter were part of the holdings of the old Diamond Vale Collieries, who had large holdings in the Nicola Valley coal basin, and comprised most of the coal rights under the land lying between the Coldwater and the Nicola livers, and included a large part of T.P. 91 in the City of Merritt, and known as the Diamond Vale Flats.

Othere have been no coal-mining operations conducted on not 167, and the coal-mining operations you have reference to are located in Section 14 that contains 640 acres in that part of Section 14 situated in close proximity to the Nicola River and the K.V. Railway, South.

I am advised by the Gavernent Agent that Section 14 at the present time is Grown Land with the exception of 17 acres upon which the mining operations are located, and this 17 acres is held by Mr. T. J. Smith, the I understand was the president and promoter of the Diamond Vale Collieries.

The Lot 170, that is the south-west portion of Section 14, only covers surface rights and not the coal rights, and is held by Willie 1 Lauder, a local rancher.

The following is a description of the location of these 17 acres as shown by Plan "B" 1503, and deposited with the Government Agent's Office in Merritt, reading as follows:-

Section 14, T.P. 91, K. Dy. D. except that part lying north of the Nicola River and part lying within Lot 122, and that part containing 17 acres, more or less, as shown on plan 1503.

#### Description of Mining Developments.

The location of these coal mine developments is in promisity to the K.V. Railway that runs between the town of Her itt and the village of Nicola. The measures generally in this section of the basin are of a hard "blockey sandstone", and have a general pitch south of from 35 to 45 degrees with three seams of coal exposed, which have been developed in varying degrees by slopes following the pitch of the seams from the surface.

There has been a very small amount of work done in the development of the upper or the No. 1 seam that appears to be about 35 feet ha thickness and a very dirty section of coal, and it is possible this is the reason for the small amount of development.

The No. 3 line is probably the most important coalmining development, and is located approximately 500 feet north of the No. 1, follows the same conformation and has the same general pitch. This is the mine where the explosion occurred during the year 1912. The portal of this mine is badly caved and not accessible, and there are at least two warface caves a short distance couth of the mine portal. There was a good description of this mine in the Himster of Mines Report for the year 1912.

The No. 2 Hire is situated approximately 300 feet north of the No. 3 Hire, and has been developed from the surface by a highly inclined slope following the full pitch of the scan, and this main clope is open to the No. 1 left letel and the water is showing in the slope a short distance below. This is probably 125' from the portal.

While the coal may be of an excellent quality it is intersected by bands of rock and will be hard to clean for the commercial trade. It is rather hard to get a correct sample of this seam.

#### Report on plant.

I am afraid there is not much to report in regard to the plant on this property. There are no buildings, mine cars, mine hoists, pumps, pipes, or rails, with the exception of a few lying in the No. 2 mine slope. The following is an inventory of the equipment at this property:-

- 1. Two medium-sized Loco Type tubular steam boilers, lying in the open, one at the No. 2 Mine and the other at the No. 3 Mine. There are no fittings on these boilers and no smoke stacks, and it is quite possible the boiler shells may be in good condition.
- 2. One small vertical tubular steam boiler without fittings lying at the foot of the hill below the Fo. 3 Mine.
- 3. One old Rand, single stage, steam-driven air compressor, that has been generally stripped, and there are parts of the machine missing. I think this will be about a 300-foot machine.
- 4. Six-foot steam-driven enclosed type sheldon mine fan, situated near the portal of the return airway of the No. 3 Mine. This is an old machine, but think it may be possible to put the same into service.

There is a trestle with bar screens and coal bunkers situated near the portal of the No. 2 Mine that has been standing for the past thirty years, so that it is now in poor condition. This comprises all the machinery at this mine.

Ouring the early history of the Disabled Vale Collieries, probably during the year 1907, there were two vertical shafts sunk near the south side of the Coldwater River; as a matter of fact, one of those shafts is in the river today and it is hardly likely that it would be possible to locate those corner posts today, but think they would be located on Lot 122.

Yours very truly,

"JOHN G. BIGGS"

Enspector of Mines.

December 27th, 1940.

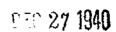
John G. Biggs, Esq., Inspector of Hines, Princeton, B. C.

Dear Sir:

I am in receipt of your letter of December 21st enclosing your report on the Diamond Vale property, as per by letter of December 13th, and note the different points of interest, and also your inventory of the equipment at present on the property.

Yours very truly,

Chief Inspector of Lines.





# DEPARTMENT OF MINES OFFICE OF THE INSPECTOR

3633

Princeton, 3, C. December 21st 1940.

James Dickson, Esq. Chief Inspector of Mines. Department of Mines. VICTORIA, 3, C.

Dear Sir:-

I am in receipt of your letter of the 13rd instant and note you have had a request from the Lands Department for information regarding lot 167, comprising 116 acres, and part of Section 14, Township 91, both in the Kamloops Division of the Yale District and situated adjacent to Herritt. also make a report on any mining equipment at present on the above mentioned lots, covering boilers; hoists; screening plant lite, giving sizes and apparent conditions, If the mine is on the above property, give any information regarding the accessibility of the workings etc.

In reply would state while in Herritt on the 19th Day of Dicember I interviewed in Robert Couper, the Government Igent in regard to the information required and found he had no large district plan and had to refer to a District Plan scaled one Mile to the Inch and you will find attached a tracing taken from this district plan showing the location of the land you have reference to.

You are quite right in assuming the land, refered to in your letter were part of the holdings of the old Diamond Vale Collieries who had large holdings in the Micola Valley Coal Sasin and comprised most of the soul rights under the land laying bet een the Coldwater and the Micola Rivers and included a large mart of .T.P. 91 in the City of Merritt and known as the Diamond Vale Flats.

Those has been no coal mining operations confideted on Lot 187 and the coal mining operations you have reference to are located in Section 14 that contains 840 acres uni in that part of Section 14 situated in close provinity to the Hicola River and the K.V. Hilway. Coath.

I am advised by the lovershent agent that Diction 14 at the present time is Grown Land with the exception of 17 agres abon which the mining operations are located and this 17 agres

is held by Mr.T.J.Smith, who I understand was the President and the Fromoter of the Diamond Vale Collieries. The Lot 170, that is the South West Portion of Section 14 only covers surface rights and not the coal rights and is held by William Lauder a local rancher. (-see copy of plan attachel)

The following is the discription of the location of these 17 acres as shown by Plan "B" 1503 and deposited with the Jovernment Agent Offic in Merritt and reads as follows:-

Section 14,T,P, 91 .M.Dy,D. except that part laying North of the Nicola River and Part Laying within Lot 122 . and that part containing 17 acres , more or less, as shown on plan, 1503.

### Description of Hining Developments

The location of these coal mine developments are in closed proximity to the M.V.Railway that runs between the flown of Merritt and the Village of Nicola and in a rolling-hill-some 100 feet in elevation above and the measures generally in this section of the basin are of a hard "Blockey Sandstone" and have a general pitch 3. of from 25 to 45 degrees with three seams of coal exposed to the samples in varying degrees by slopes following the pitch of the seams from the surface and think are located in the upper series of the coal measures.

There has been a very small amount of work done in the development of the upper or the To I seam that appears to be about 55 feet in thickness and appears to me as a very dirty section of coal and it is possible this is the reason for the small amount of development.

The No Z Dine is probably the most important coal mining develops nt and is located approx 500 feet North of the No 1, follows the same conformation and has the same general pitch and is the mine where the explosion happened during the year 1912. The portal of this mine is baily caved and not accessible and there are at least two surface caves a short dictance South of the mine portal; there was a good discription given of this mine by Nr AlectaRobisson in the Hinister of Dines Report of the year 1912.

The No 2 Hine is situated amprox 200 feet Worth of the No 1 Hine and has been developed from the surface by an highly inclined slope following the full pitchof the seam and this usin slope is open to the No 1 left level and the water is showing in the slope a short distance below, this is probably 125 feet from the portal of the mine-and While the coal may be of an ambelled quality, it is intersected by bands of rock and will be been to clean for the communical trade, it is eather hard to get a correct of this seam, as the span contains flotons and agreers to vary in thickness, you will find what I would consider a fair average sample of the ream.

Report on Plant. I am afraid there is not much to report in regard to the plant on this property. There are no buildings, Nine cars, Mine Hoists, Pumps, Pipes and no rails with the exception of a few laying in the No 2 mine slope, the following is an inventry of the equipment at this mining property.

- (1) Two medium size Loco Type tubular steam boilers, laying in the open, One at the No 2 Mine and the other at the No 3 Mine, there are no fittings on these boilers and no smoke stacks. and it is quite possible the boiler shells may be in good condition
- (2) One small vertical tubular steam boiler without fittings laying at the foot of the hill below the No 3 mine.
- (3) One old Rand, single stage, steam driven air compressor, that has been generally stripped and there are parts of the machine missing, think this will be about a 500 feet machine.
- (4) Six feet steam driven enclosed type sheldon mine fan , situated near the portal of the return airway of the No 3 mine this is an old machine , but think it may be possible to put the same into service.

This comprises all the machinery 4 was at this mine.

There is rather a high-tressle-with bar screens and coal bunkers situated near the portal of the No 2 mine that is set in the ground has been standing for the past thirty years or se and it to be an harally be expected this structure can be in good condition.

There was a test shipment of coal taken from these mines some three years ago by Hr Howell John under the isstructions of Hr T.J. Omith, I understand at that time there was a car load of coal shiped to the coast, about 12 months ago under the instructions of Hr Emith shipped four sicks of coal to the coast this coal was mined in the lower or the Ho 2 seam in a crosscut on the right side of the slope.

During the early history of the Diamond Vale Collieries probably during the year 1907 there was two vertical shafts sunk near the Douth side of the Coldwater River, as a matter of factions of them shafts is in the river to lay and it is hardly to be expected a ranson would be able to locate those corner posts to day, but think these shafts would be I cated on Lot 122, as shown by the attached copy of plan.

I have the homour to be,

Tour obligat community.
Inspector of Miles.

This is what I would consider a fair average section of the seam of coal in the No 2 Hine of the Diamond Vale showing 34 inches of coal intersected by a 6" band of rock the section above is very dirty and little if any commercial value, but would have to be taken down during mining operations to the good roof above.

SAND STONE The Lower Sean

122 1 the beautiful to

A STATE OF THE STA The Control of the Co The state of the s 

Dr.R.W.Ells made a geological Survey of the Nicola Coal Basin and rublished a map of this field sometime during the year 1902, but think this has been out of print many years ago. I do not have a copy however this sketch shows a general lay out of the basin and the location of the different coal mining properties . 3343d3 01 108 N. N. 7511 OLD PACIFIC O OAL CU PROPERTY RUSPECT 3504/40.

John G. Biggs, Esq., Inspector of Mines, PRINCETON, B. C.

Dear Sir:

I am in receipt of a request from the Lands Department for information regarding Lot 167, comprising 116 acres, and part of Section 14, Township 91, both in the Kamloops Division of Yale District and situated adjacent to Merritt.

The above properties are, I believe, part of the old Diamond Vale property including that part containing the No. 3 Slope or Mine (where the explosion occurred in 1912), but check up on this point, from records and plans at the Government Buildings at Merritt. If possible get a district plan and indicate on the plan the position of the mine.

Make a report on any mining equipment at present on above-mentioned lots, covering boilers, hoists, screening plant, etc., giving sizes and apparent condition. If the mine is on the above property, give any information regarding the accessibility of the workings, that is, if the slopes are still open and when last operated. I am under the impression that some coal was taken out a few years ago for a test shipment.

The above information is required as soon as possible.

Yours very truly,

Chief Inspector of Lines.

John F. Walker, Esq., Deputy Minister of Mines, Victoria, B. C.

Dear Sir:

I am in receipt of your memo. of December 11th accompanied by memo. from the Hon. A. Wells Gray to our Minister, requesting information regarding the mining value of Lot 167 and part of Section 14, Township 91, (a total of 699 acres), in the Mamleops Division of Yale District, and adjacent to Herritt.

I believe the above is part of the old Diamond Vale property and contains the No. 3 Diamond Vale slope which consisted of two slopes driven in coal from the outcrop for some 500', with kevels off right and left to a distance of 600', with some development driven from these levels in the direction of the outcrop; this seam is 3' thick.

I have not been at this property for a number of years, but from my recollection I believe the equipment consisted of a small steam boiler and hoist, neither of which has been used for over thenty years, and which will have very little value.

However, I am writing Inspector Biggs to enquire specifically into this matter.

Yours very truly,

Chief Inspector of Mines.

(

### **MEMORANDUM**

FROM THE

To James Dickson, Esq.,

Chief Inspector of Mines,

Buildings.

DEPARTMENT OF MINES,

VICTORIA B.C. Dec. 11, 40.

3504

I enclose copy of a memorandum to our Minister from the Honourable Wells Gray, which is self-explanatory.

Will you please have Mr. Biggs make the examination and let me have a copy of his report at as early a date as possible.

Deputy Minister of Mines.

Encl. JP

### Memorandum for the Hon. the Minister of Mines

My dear Colleague:

c n

y

The coal rights carried by the following two parcels of land have reverted to the Crown for unpaid taxes, viz: Lot 167, comprising 116 acres, and part of Section 14, Township 91: 583 acres, both in the Kamloops Division of Yale District, and situated adjacent to the Town of Merritt.

A considerable amount of taxes was in arrear in respect to these two parcels at the time of forfeiture, and it is understood that the property contains a quantity of Mining equipment and has been developed as a producing mine. On account of former transactions which have taken place in respect to this property and conditions generally in the neighbourhood, this Department is at a loss to determine the best method of dealing with the property in the event of applications being made in respect thereto. Under the circumstances, it is considered advisable to have a thorough inspection made and obtain a report covering the amount of machinery and equipment in the mine, and its estimated value; and conditions generally. I have therefore to request that you will be good enough to issue instructions to the District Engineer, or any other competent person, to make such a survey and report.

Faithfully yours,

"A. Wells Gray"

Minister.

NEW WESTMINSTER OFFICE do Westminster Trust Building PHONE 615

#### ALEXANDER S. DUNCAN Successor to WHITESIDE & DUNCAN

DEPT. OF MINES Rec'd AUG 10 1983

MISSION CITY OFFICE

CATHERWOOD BUILDING

DAVID WHITESIDE, K. C. ALEXANDER B. DUNCAN BARRISTERS AND SOLICITORS

Referred to.....

New Westminster, B. C. August 9th 1938.

Department of Mines.

Victoria. B.C.

Attention of Chief Inspector.

Dear Sirs:

I am acting for the Diamond Vale Coal Co.Ltd. who hold coal lands at Nicola adjacent to the Middlesborough Coal Co. I understand that the workings of the latter company now extend to the boundary of the Diamond Vale Coal Co.Ltd. property.

My clients are anxious to know if in the event of them commencing operations what barriers the Department would require to be left between the workings of the two companies.

I would also like to obtain if possible a blue print showing the workings of the Middlesborough Company. I understand a certain fee would be payable for this and I will remit on being advised as to the amount.

Your early reply would be greatly appreciated.

Yours truly.

ALEXANDER S. DUNCAN.

ASD: DR

3049/38

Alexander S. Duncan, Esq., Barrister & Solicitor, 500 Westminster Trust Bldg., NEW WESTMINSTER, B.C.

#### Dear Sir:

In reply to your letter of August 9th re the mining properties of the Middlesboro Collieries Ltd., and the Diamond Vale Coal Company Ltd., requesting information on same I beg to say plans of the mines are not filed with this Department until said mines are abendoned (this except under special circumstances).

Any plans so filed may not be shown to any person except with the permission of the owner.

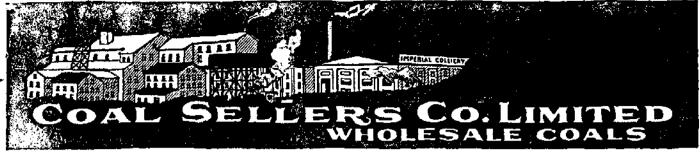
## Re Barriers Between Workings:

Where a mine is abandoned and cannot be readily examined any other workings approaching the abandoned mine are prohibited from approaching closer than 500 from the abandoned mine until a satisfactory method of approach has been submitted to the Inspector of Mines and approved by him.

In no case shell the new workings approach closer than 150' from an abandoned mine unless the abandoned mine can be readily examined or proved to be safe for such approach.

Yours very truly,

Chief Inspector of lines.



#### DOMESTIC AND STEAM COALS FROM EVERY FIELD

W. E. ROBI,
RESIDENT DIRECTOR

852 HORNBY STREET VANCOUVER, B.C. March 25th, 1937. Phone SEY, 1622

Mr. James Dixon, Prov. Mines Inspector, Victoria, B. C.

Dear Mr. Dixon: -

I have been approached to interest empital in the Diamondvale property at Merritt. Understand there are several million tons of coal proven by diamond drilling, that there are two seams of which one is non-coking. If I could interest capital we would be interested in the coking seam.

Is there any information you can give me regarding an approximate operating cost for minerun and if the property lends itself to economical operation.

From everything I have read about this area I am not sold on the district as I understand the measures are badly broken. If you would be kind enough to give me a frank expression of opinion, and an analysis or two if you have any, it would be greatly appreciated.

Thanking you, I remain,

Yours faithfully,

WER: N.

# April 10th, 1937.

1307/37

Walter E. Robi, Esq., Coal Sellers Co. Ltd., 9 852 Hornby St., VANCOUVER, B.C.

Pear Mr. Robi:

On my return to Victoria I received your letter of March 25th re the Diamond Vale area at Marritt and note the different points mentioned viz., that it is reported that there are several million tons of coal in this property and that there are two seats, one coking and one non-coking coal, and that the field is considerably broken up and requesting my opinion of this property.

I may say that there are no records of the results of drilling of the Diamond Vale at this office by which I could check up on the probable tonnage in this part of the field. The limited operations formerly carried on were not sufficient to give information regarding whether the field is much broken or otherwise, however as some of the seams come to the surface at the former slope entrances to the mine I would say that this offers an easy and economical means of prospecting and developing at least part of this area.

The only analysis I have of coal on this property is from the Minister of Mines Report - 1909 and is as follows:

 Moisture
 2.671

 V.C.H.
 37.10

 F.C.
 52.27

 Ash
 7.95

 Sulphur
 0.77

Page 2.

April 10th, 1937.

I suggest that your best interest would be served by having a reputable engineer make an examination of the property with particular reference to the probable output of coal that you could market.

Yours very truly,

Chief Inspector of "ines.

March 31st, 1937.

1307/37

W.E. Robi, Esq., Resident Director, Coal Sellers Co. Ltd., 852 Hornby St., VANCOUVER, B.C.

Dear Sir:

I have the honour to acknowledge the receipt of your letter of March 25th requesting information re the Diamond Vale property at Merritt B.C.

Mr. Dickson is at present away on an inspection tour in the East but will probably be returning to the office the latter part of next week, at which time the above letter will be placed before him for immediate attention.

Yours very truly,

Stenographer.

I shall be obliged if you will let me have a report, for information of the Deputy Minister of Lands, in connection with the attached copy of Memorandum from said official, regarding the above matter.

ENCL.

GORY

DEPARTMENT OF LANDS
Office of
The Deputy Minister
Victoria, B.C.

October 21st, 1932.

# Memorandum to the Deputy Minister of Mines.

Following exposure at tax sale in 1932, certain areas hereinafter described and known as the Diamond Vale coal property at Merritt, B. C., have reverted to the Crown for non payment of taxes under the provisions of the Taxation Act.

Gertain enquiries with regard to the purchase of this property have been received and it is considered that the Department would hardly be justified in considering same without a special and more or less expert report as to the present market value of the holdings of this Company, which are now vested in the Crown.

I shall therefore be pleased if you can arrange to have your chief Inspector of some other competent official make a formal report in view of the circumstances noted above.

The areas concerned are described as follows:

- 1. Part Lot 121, Gp. 1, K.D.Y.D. lying south of Nicola river 80 acres (coal rights only).
- 2. Lot 122, K.D.Y.D. 308 acres (coal rights only) and surface rights of that part Lot 122 registered under Certificate of Title 5956D 10 acs.
- 3. Lot 123, K.D.Y.D. 323 acres (coal rights only) and surface rights of that part Lot 123, registered under Certificate of Title 5956D, except C.P.R. right-of-vay 35.88 acres.
- Lot 167, K.D.Y.D. 116 acres (coal rights only).

- 5. W. 2 Sec. 13, Tp. 91, 320 acres (coal rights only).
- 6. Sec. 14, Tp. 91 (except 40 acres described in C.G. 13)
  Nov. 19, 1908 and except part lying within Lot 122)
   600 acres (coal rights only) part Sec. 14, Tp. 91,
  registered under Certificate of Title 5956D 17 acres
  surface rights only.
- 7. S.E. Sec. 23, Tp. 91 160 acres (coal rights only).
- 8. S. \$. \frac{1}{4} Sec. 24, Tp. 91, 160 acres (coal rights only).

"H. Cathcart"

Deputy Minister.

Deamond Vale los I'ld

28

October 29th, 1932.

Robt. Dunn, Esq., Deputy Minister of Mines, VICTORIA, B.C.

Dear Sir:

#### Memo. re: Dismond Vale Coal Property.

This property, containing some 2,000 acres (coal rights) has several definitely protest seams of coal as some of the work of the Diemond Vale Collieries from year 1908 to 1917 in actual mining, though of an intermittent nature, produced some 30,000 tons of coal.

This mining was carried on in the northeastern part of the property after shafts, started near the westerly boundary, had be n abandoned.

The Dismond Vale property on the westerly side adjoins the property of the Middlesboro Collieries and the latter company mined coal along their property boundary (where it joins the Dismond Vale property) for over 5,000 feet in No. 2 mine; the coal produced from the No. 2 mine was reported as being of good quality.

In the Middlesboro Collieries a number of separate" seems have been proved and worked and there can be no reasonable doubt that most, if not all of those seems, continue in the Diamond Vale property.

I have no information regarding the boreholes put down on the Diamond Vale property but the facts that seems exist along the Diamond Vale-Middlesboro property boundary and that a wine, worked haphazardly, on the opposite side of the property produced 50,000 tons of coal are very definite proofs of the potential value of the Diamond Vale property.

The analyses of coal from the Diamond Vale property (from Report of Minister of Wines) gives:

Moisture	2.00%
Volatile combustible matter	37.84%
Fixed carbon	55.14%
Ash	4.36%

This coal area is in the nature of a basin with the result that the position of the seams will be at a greater depth in the central area of the property and if not sold as a unit the coal in the central area would be more difficult of access than the other parts and would naturally be more costly to mine; also be of a lower sale value per acre.

Regarding the sale value of the Dismond Vale coal property I am of the opinion that, in normal times, \$20.00 per acre would be a fair price.

At the present time however I believe that, owing to the subnormal business conditions, there would be few, if any, prospective purchasers and the price should be reduced to the point where it would attract a reliable buyer who would operate the property.

It should be remembered that in addition to the sale price of this coal property the royalty tax on coal (10) per ton) is approximately equivalent to (100.00 per acre per foot thickness of coal so that from such an operation the revenue is not less important than the selling price.

The early operation of this property would do much to benefit the Ferritt area and provide such needed employment to this mining community.

To make a spedific detailed report and estimate the probable tennage of coal on this property would require considerable tile but trust the above may be of service.

Despectfully submitted,

Chief Inspector of Mines.

October 29th, 1932.

Tobt. Dunn, Esq., Deputy Minister of Minos, VICTORIA, B.C.

Dear Sir:

Memo. re: Diemond Vale Coal Property.

This property, containing some 2,000 acres (coal rights) has several definitely proven seams of coal as some of the work of the Diamond Vele Collieries from year 1908 to 1917 in actual mining, though of an intermittent nature, produced some 30,000 tons of coal.

This mining was carried on in the northeastern part of the property after shafts, started near the westerly boundary, had be n absidened.

The Dismond Valo property on the westerly side adjoins the property of the Widdlesboro Collieries and the latter company wined coal along their property boundary (where it joins the Dismond Valo property) for over 3,000 feet in No. 2 mine; the coal produced from the No. 2 mine was reported as being of spod quality.

In the Middlesboro Collieries a number of coperated some have been proved and vorked and there can be no reasonable doubt that most, if not all of those seams, continue in the Midmend Vale property.

I have no information regarding the boreholds put down on the Diemond Vale property but the facts that seems exist along the Diemond Vale-Middlesboro property boundary and that a mine, worked haphazardly, on the opposite side of the property produced 30,000 tens of coal are very definite proofs of the potential value of the Diemond Vale property.

October 29th, 1932.

The enelyses of coal from the Diamond Vale property (from Report of Minister of Mines) gives:

Moisture	2.66%
Volatile combustible matter	
Fixed carbon	
Ash	4.36%

This coal area is in the nature of a basin with the result that the position of the sears will be at a greater depth in the central area of the property and if not sold as a unit the coal in the central area would be more difficult of access than the other parts and would naturally be more coatly to mine; also be of a lower sale value per acre.

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At the present time however I believe that, owing to the subnormal business conditions, there would be few, if any, prospective purchasers and the price should be reduced to the point where it would attract a reliable buyer who would operate the property.

It should be remembered that in addition to the sale price of this ocal property the royalty tax on coal (10) per ton) is approximately equivalent to (100.00 per acre per foot thickness of coal so that from such an operation the revenue is not less important than the selling price.

The early operation of this property would do much to benefit the Verritt area and provide much needed employment to this mining community.

To make a specific detailed report and estimate the probable tennage of soal on this property would require considerable to but trust the above may be of corvide.

Tespectfully submitted,

Chief Inconctor of Mines.

9/c.

October 11th, 1930

### Re: Diamond Vale Callieries Ltd.

Detailed reports of Diamond Vale Colliteries given in Minister of Times reports for years 1906 to 1913, and Cerritt Collibries .d., from 1916 to 1917.

Only one copy of plan is filed in the Chilf I spector of wines office and could suggest they see for Dickson to have copy of plan ande.

Seitember 14th, 1949.

E. R. Hughes, Esq., Inspector of Mines, RINCETON, B.C.

Dear Sir: -

I have received the copy of your letter to Mr. O. Y. Crossley, Regional Development Division, Department of Trade and Industry, re the Merritt Coal Field. Your reply to his enquiry is appreciated here and shows both thoughtfulness and discretion on your part.

This will be placed on file for future reference. We will find it very useful if anything comes up at the next session of the House.

Yours very truly,

OFFICE OF THE INSPECTOR



DEPARTMENT OF MINES

Chief Inspector of Mines
SEP 141949
Referred to

Princeton, B.C., September 12th, 1949.

James Strang, Esq., Chief Inspector of Mines, Parliament Buildings, Victoria, B.C. 2237

Dear Sir:

Herewith enclosed please find copy of letter to Mr.G.Y.L.Crossley, Regional Development Division, Department of Trade and Industry, Kelowna, E.C., dated September 10th, in answer to an enquiry regarding the Merritt coalfield. This information being requested for the benefit of the Department of Trade and Industry in compiling the 1949 Industrial Index.

Yours very truly,

Inspector of Mines.

May 26, 1949.

Thomas Mordy, Esq., 1838 West 13th Avenue, VANCOUVER, B.C.

Dear Sir: -

(

Our plan for the Merritt Coal Field was received from you today and I wish to thank you for same. We trust you found it of benefit in your investigation.

Yours very truly,

Chief Inspector of Mines.

JS/IC

1838-13 HW. Vancouver. B.O.

In fas. Strang. Chief Empector of mines Imines Dept Victoria.

	Chief Inspector of Mines
	MAY 26 1949
	Referred to
	Ans'd

by dear from. Sorry you have had to write for the sketch you as bridly loaned me, but that intended bomak an enlargement of it and put more data on. However any good indention were from traded by a noverstrained back, so much so I had to lay lift work altrogether for two weeks. How over the bridge now of ranaged to lake a bracing of your plan which will serve my purpor think.

many many thanks. Efth in victoria in the near frature I'll look you up.

Sincerely Jours

May 20th, 1949.

Thomas Mordy, Esq., 1838 West 13th Ave., Vancouver, B.C.

Dear Tom: -

I would appreciate it very much if you sent back the map of the Merritt Coal Field I sent you, as I need it for some checking up I have to do.

Kindest regards.

Yours very truly,

Chief Inspector of Mines.

JS/RAE

March 24th, 1949.

Thomas Mordy, Esq., 1838 West 13th Ave., Vancouver, B.C.

Dear Tom: -

Enclosed is the map I mentioned on the phone to you. Would you please send this back to me as it is the only one I have.

I am also sending you the 1946 Annual Report giving very complete information of the drilling done there by the Department. You can keep this copy. See page A. 250.

Mindest regards.

Yours very truly,

ALL COMMUNICATIONS IN REFERENCE TO LAND MATTERS SHOULD BE ADDRESSED TO THE SUPERINTENDENT OF LANDS



VICTORIA, B.C.

March 31, 1948.

LANDS BRANCH

#### DEPARTMENT OF LANDS AND FORESTS

854

Chief Inspector of Mines, B U I L D I N G S.

Y.F. 809-48hief Inspector of Mines

**MEMORANDUM** 

Please refer to File No. 0108615 #2

APR 1 7 1948
Referred to
Ans'd

Re	special of the M	coal lea: erritt Co	se in fav Sal Mines	our of G	eorge Mur	ra <b>y</b>	
DEAR SIR OF	R MADAM:				•		
This w	ill acknowled	lge your le	tter of	Ma	rch 25		
received	March	30		19 <u>48</u> , to	gether with	n enclosur	e of
notice of	abandonme	nt	relative	to the abo	ve-noted pr	operty, w	hich
is receiving	attention.	You will	be furthe	r advised	respecting	same at	the
earliest pos	sible date.						

Yours truly,

C. E. HOPPER,
Superintendent of Lands.

1.B. 143, page 1-15M-1147-6878 (4)

March 25th, 1948.

C. E. Hopper, Esq., Superintendent of Lands, Buildings.

Dear Sir: -

Your File No. 0108615 #2, Attention "LEASES"

Re the above special coal lease in favour of George Murray of the Merritt Coal Mines Ltd.

The Merritt Goal Mines closed down on June 21st, 1945, and all the equipment was withdrawn from the mine. Since then no work has been lone at the mine. We do not know there Mr. Lurray is at the present time, but so far as we are concerned it is considered an abandmed mine.

Loclosed is a copy of the notice of abandonment received from Mr. Murray, dated the 10th of September, 1945.

Yours very truly,

ALL COMMUNICATIONS IN REFERENCE TO LAND MATTERS SHOULD BE ADDRESSED TO THE SUPERINTENDENT OF LANDS



VICTORIA, B.C.

28:

809

March 23, 1948.

## LANDS BRANCH DEPARTMENT OF LANDS AND FORESTS

Ch	ief	Insp	ecto <b>r</b>	of	Mines
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An	≊'d .			+	

Chief Inspector of Mines, B U I L D I N G S.

Please refer to File 0108615 #2
Attention "LFASES"

Dear Sir:

The Department issued a special Coal Lease in favour of George Murray of the Merritt Coal Mines Ltd., covering the S.W. do f Sec. 13 and Fr. Sec. 14, save and except that portion thereof included in Certificate of Title No. 5956D, Tp. 91 and Lot 167 all in Kamloops Division of Yale District, containing 898.5 acres, situated 1 mile East of Merritt, for a period of 21 years at the rental of \$134.75 per annum, under authority of Order-in-Council No. 1013, approved July 28, 1942.

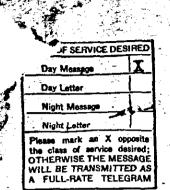
It is pointed out that rental on the lease has been paid to July 27, 1946 and no reply has been received from Mr. Murray to our requests to place the lease in good standing on our records.

Under the circumstances I would be pleased to received such particulars that you are in a position to furnish as to the operations being carried out by the lessee on the property, together with any information which would be of assistance to the Department in this connection.

Yours truly,

Superintendent of Lands.

WJH:MM



# CANADIAN PACIFIC TELEGRAPHS

MONEY TRANSFERRED BY TELEGRAPH TO PRINCIPAL POINTS IN CANADA AND THE UNITED STATES



CABLE CONNECTIONS TO
ALL PARTS OF THE
WORLD
RADIOGRAMS TO SHIPS

	7.0.2X
NO.	CASH OR CHO.
Ţ	IME FILED
	CHECK

W. D. NEIL, General Manager of Communications, Montreal

Send the following message, subject to the conditions on the back thereof, which are hereby agreed to.

Victoria, B.C., February 21, 1946.

George Murray, Manager, Merritt Coal Mines Ltd., Merritt, B.C.

Urgently required that you forward at once completed Annual Returns as per Coal Mines Regulation Act and Dominion Bureau of Statistics for Merritt Coal Mines Limited for year nineteen forty five

JAMES DICKSON Chief Inspector of Mines

Chge. Vote 128, Office Supplies, Mines, Inspection Branch.

February 7th, 1946.

G. Murray, Esq., Manager, Merritt Coal Mines Ltd., Merritt, B.C.

Dear Sir: -

#### SECOND NOTICE

Please forward the Annual
Returns, as per the "Coal-Mines Regulation Act",
covering the operation of the Merritt Coal Mines Ltd.,
for the year ended December 31st, 1945, and the
Report of Lining Operations as per the "Dominion
Bureau of Statistics Act" for the same period, one
copy of the latter to be forwarded to Ottawa and
one copy to this office.

Yours very truly,

February 21st, 1946.

F. M. Dockrill, Esq., Manager, Bulkley Valley Collieries, Ltd., Telkwa, B.C.

Dear Mr. Dockrill: -

We have not yet received your Annual Return as per the "Coal-Mines Regulation Act" for your Bulkley Valley Collieries Ltd., for the year ended December 31st, 1945.

As you may have mislaid or overlooked the forms previously mailed to you, I am enclosing herewith another set.

I regret that in my letter of February 7th in this connection, the name "Merritt Coal Mines, Ltd." was incorrectly given, which should have read Bulkley Valley Collieries.

Please complete and forward by return mail.

Yours very truly,



## DEPARTMENT OF MINES

February 7th, 1946.

F. M. Dockrill, Esq., Manager, Bulkley Valley Coal Mines, Telkwa, B.C.

Dear Sir: -

#### SECOND NOTICE

Please forward the Annual
Returns, as per the "Coal-Mines Regulation Act",
covering the operation of the Merritt Coal Mines Ltd.,
for the year ended December 31st, 1945, and the
Report of Mining Operations as per the "Dominion
Bureau of Statistics Act" for the same period, one
copy of the latter to be forwarded to Ottawa and
one copy to this office.

Yours very truly,

February 7th, 1946.

F. M. Dockrill, Esq., Manager, Bulkley Valley Coal Mines, Telkwa, B.C.

Dear Sir: -

#### SECOND NOTICE

Please forward the Annual Returns, as per the "Coal-Mines Regulation Act", covering the operation of the Merritt Coal Mines Ltd., for the year ended December 31st, 1945, and the Report of Mining Operations as per the "Dominion Bureau of Statistics Act" for the same period, one copy of the latter to be forwarded to Ottawa and one copy to this office.

Yours very truly,

no reply filed novely " Let it go in the meanting me sich

September 13, 1945.

George Murray, Esq., Manager, Merritt Coal Mines Ltd., P. O. Box 305, Merritt, B. C.

Dear Sir:

I am in receipt of your letter of September 10th notifying this office that the Merritt Coal Mines Ltd. has abandoned mining operations in the area and vicinity of Nos. 3 and 4 mines and submitting a blue print showing the workings of the above mines and other operations in the immediate vicinity; this for filing in accordance with the requirements of the "Coalmines Regulation Act".

However, the plan of abandoned mines for filing purposes is required on standard tracing cloth and request that you forward the original tracing or a copy of same on cloth.

Yours very truly,

George Murray, Esq., President & Manager, Merritt Coal Mines Ltd., Box 305, Merritt, B. C.

Dear Mr. Murray:

I have your letter of September 10th, and appreciate your forwarding to this office a plan of the operations of your property which have been abandoned.

Very kindest regards,

Yours sincerely,

Minister.

#### MERRITT COAL MINES LIMITED

P. MALONE, Vice-President.

J. SISCO, Director.

G. MURRAY, C.M.E., President and Manager.

×

P.O. Box 305

MERRITT, B.C., 10th. Sept

\_194\_5

The Minister of Mines Victoria B.C.

SEP 1., 1945

Dear Sir.

MINISTER OF MINES

In complianc with the provisions of the Coal Mines Regulation Act; I am forwarding under separate cover; A plan of the area of our property in which operations have been abandoned.

Yours truly

Merritt Coal Mines Ltd.

per-li-Mussay

## PRODUCTION MERRITT COAL MINES August, 1943 to June, 1945.

1943 1944 1945	Long Tons. 2,275 8,529 5,112	August to December, inclusive Full year January to June, inclusive
Total	15,916	

Princeton, B.C. 🕾 Geo.Murray, Esq., Manager, Merritt Coal Mines Ltd., Merritt, B.C. Dear Sirt I am in receipt of a letter, dated July 3rd, 1945, from your Mr.A. Morris, giving the output of coal and number of days worked for the month of June; also advising that, quote, "This mine was shut down tight on June 21st. and all materials removed. I rould at this time draw your attention to Section 77A, "Coal Mines Regulation Act Ammendment Act, 1937." This section provides that, (1) Where it is proposed to abandon a mine, or part of a mine, the owner, meent, or manager shall give notice in writing of the proposed abandonment to the Inspector of Mines while the workings of the mine or part of the mine are still accessible, and shall see that all the workings of the mine or the part of the mine to be abandoned are surveyed and shown on the mine-plan before the abandonment occurs. Also note that Section 78 (1), Coal Mines Regulation Act, E.S. 1924, directs that, PWhere any mine is temporarily or permanently abandoned, the orner of the mine at the time of abandonment shall, within three months after the abandonment, send to the Minister an accurate plan, on a scale of not less than one hundred feet to one inch, or on such other scale as the plan used in the mine at the time of the abandonment is constructed, showing the boundaries of the vorkings of the mine up to the time of the abendonment, with a view of its being preserved under the cure of the Minister; ....! Confirming our conversation in Merritt, on the evening of July 19th, 1975, also confirming my Inspection Report of the same date; all surface ontrances to any abundoned underground vorkings at the Marritt Coal Mines Ltd. Diamond Vale Colliary require to be securely fenced, without delay. Your attention to the above matters, and an early acknowledgement of this letter, is requested. Yours very truly, Givana R. Hoyles. Inspector of Mines. c.c. James Dickson.



Princeton, B.C.

JUL 3 1945

| Starred to \_\_\_\_\_\_\_
June, 29th, 1945.

2390

James Dickson, Esq., Chief Inspector of Mines, Parliament Buildings, Victoria, E.C.

Dear Sir:

I am in receipt of your letter of June 23rd, 1945, returning the report on the Diamond Vale Collieries Ltd., dated October 20th, 1909, by B.P.Little. Also received a copy of this report for the files of this office, for which I thank you.

Yours very truly,

Inspector of Mines.

2081-45

E. R. Hughes, Esq., Inspector of Mines, Princeton, B. C.

Dear Sir:

With reference to my letter of June 13th, I am returning the report on the Diamond Vale Collieries Ltd., dated October 20th, 1909, by B. P. Little, which you so kindly forwarded, and am enclosing a copy of the report for your files.

Yours very truly,