

Reference Number: **1978.0079**

Collection/Series Title: **WOODWARD, OLIVER HOLMES**

Creator	Woodward, Oliver Holmes
Creator's Activity/Occupation	Mining companies - Company directors - Engineers, mining
Creator's Historical Note	
<p>Mining engineer O.H. Woodward (1885 - 1966) was one of the key technologists behind the Collins House Group mining empire. His mining career started at Irvinebank, Qld, in 1907 and continued at Mount Morgan from 1913. After the war, in which he served in France with the 1st Australian Tunnelling Company, Woodward joined Broken Hill Associated Smelters, becoming General Superintendent in 1924. He was General Manager of North Broken Hill from 1935 to 1947 and a director of that company from 1944-1961.</p>	
Date Range of Collection/Series	1884-1964
Size/Extent	14 boxes (1.5m)
Access Conditions	Access: Open
Scope and Content of Collection/Series	
<p>"The Drake Gold and Copper Field, N.S.W., 1 transcript, m.s. February 1964; "The World Tour 1934", 2 transcripts, m.s.; copy of letter from John Moffat to George Waddell, 30 May 1884 re. family matters, mining and aboriginals, New England, N.S.W.; explanatory notes.</p>	
Collection Category	Business, individuals
This document dated	21/12/2016

Box

1

Four Bound Volumes

Metallurgical Reports: BHAS Pty Ltd

- a1 Proposal to erect Lead Smeltery & Refinery in England July 1932
- a2 Broken Hill Weights & Assays of Lead Concentrates June 1934
- a3 Difficulties experienced by extruders of BH Lead 31.1.35
- a4 "Betterton" debismuthing process as studied in USA 31.1.35
- a5 Variation in Weight of Lead shipments to UK 31.1.35
& methods of moulding & weighing at World Centres
- a6 Recovery of Zinc from BHAS Pty Blast Furnace Slag 26.1.35
- a7 Comparison recovery of Zinc from blast furnace slag by Fuming Process
& Improved Vertical Retort 8.12.35

Metallurgical Reports: North Broken Hill Ltd.

- b1 Proposed New Concentrating Mill 18.9.36
- b2 Savings Effected by New Mill 15.11.39
- b3 Comparison Gravity cum Flotation Mill with All Flotation Flow Sheet (*undated*)
- b4 Estimate in Reduction in Operating Expenditure 16.1.36
- b5 Final Estimated Capital Expenditure 17.5.37
- b6 Examination of Harding's Mills (*undated*)
- b7 Determination of Silver Content of Lead Concentrate 16.6.45
- b8 Influence of Fine Grinding on Metal Recoveries 17.11.36
- b9 Review of first 6 years of Gravity-Flotation Mill & study of other Flow Sheets 24.5.46

Mining Reports: North Broken Hills Ltd.

- c1 Application of mechanical Haulage 23.3.36
- c2 Increasing Production of Ore 22.11.35
- c3 Re-opening of British Section (*Report No. 10 - undated*)
- c4 Efficiency of Mining Operations Year Ended 30/6/43 (23.8.43)
- c5 Efficiency of Mining Operations 1/7/43 - 1/4/44 (15.6.44)
- c6 Control of Underground Fires 8.12.44
- c7 Timber for Underground Operations 12.9.46

General Reports: North Broken Hills Ltd.

- d1 Remodelling Surface Plant etc (No. 5) 30.3.36
- d2 Report Broken Hill Water Board 18.8.44
- d3 Report by J.B.Dridan to Water Board 5.2.45
- d4 Maximum Power Demand 25.1.46
- d5 Extension of Coal Workers' Pension Act to Broken Hill 17.6.44
- d6 Review of Mining Managers' Association 28.5.43, 26.10.43
- d7 Aged Employee 15.1.43
- d8 Military Service Gratuity Scheme 15.4.43
- d9 Augmentation Staff Provident Fund 15.8.43
- d10 Shareholdings BHAS Pty Ltd. 28.12.43
- d11 Market Lead Contract 26.20.43
- d12 Market Lead Production 14.1.39
- d13 1935 Industrial Agreement 6.10.35
- d14 Production when miners refused contract 22.4.43
- d15 Companies exchange of shares 28.12.43
- d16 Lecture to Staff college 19.10.53

"The Non-ferrous Metal Industry in Australia" a Series on Industrial Mobilisation for selected officers of Defence, Supply, Treasury, Army, Navy & Air Force at the School of Commerce, University of Melbourne

- 2
- a Letters to & from Libraries & Historical Groups re. Autobiography
 - b Telegrams on 80th birthday
 - c Letter from "Dick Casey" (Governor General) in 1965
 - d Extract from a talk on "The story of the Broken Hill Lead-Silver-Zinc Industry" 26.10.50
 - e Paper clippings, especially when OHW left Smelters. He regarded himself as "Not Boss – just leader", paid tribute to the workers & noted that he never had to go to arbitration court. Union man noted that his door was always open when there was a dispute.
- 3
- a Diaries from 1912, 1914, 1915, 1916, 1917, 1918, 1919, 1920, 1934 (see note at end of list)
 - b Reports on Mining Trips: Wollongorang (NT), Hall's Creek (NSW)
Golden Ridge & Palmerville (Qld)
Laloki Mine & Astrolabe Field (PNG)
 - c Folders (empty) for stories on John Reid & John Moffat
 - d Drake Gold & Copper Fields (original photos)
 - e Marjorie Waddell's journey to New Guinea (May-June 1918)
 - f OHW Birth Certificate
 - g Copy of John McDiarmid Royle's story of Hill 60
- 4
- PHOTOS**
- a Tenterfield, S.A. Woodward negatives, Drake 1,2,3,4
Many Peaks, General Office, Mt Morgan, Map of route to Wolloragang, Mt Carbine, Newington College, Lismore, Margaret Malcolm Reid
Laloki Mine (9)
Drake(5)
Governor Norman Mine, Mt Carbine (on glass)
Tunnellers & Crater of Hill 60
Drake Sitting room – family of S.A. Woodward
Tunnellers back in 1934
Glen Smelting Co. 1906 & 1880s, Ottery Mine (2) on glass
 - b Negatives of photos in Drake Gold & Copper field publication
 - c Family Houses & negatives of W.Allan Waddell & Emma Rose (nee Absell)
 - d Tenterfield group
 - e BHAS – from Autobiog Volume III
 - f Autobiog Vol II: negative of maps and "ideal layout of defensive system"
Details Hill 63 dugouts, clay kicking seat, Hill 60, firing, machine gun, Investiture
- 5
- Original handwritten manuscript of Autobiog Vol II
 - Photocopies of published sketch maps
 - BHAS prints
 - Note that box is labelled Irvinebank & Glen Smelting & Tent Hill – not so*
- 6
- a Revision of important sections of 1035 report on slag fuming 21.10.55
 - b Notes on Proposal to erect New Lead Refinery 13.10.30
 - c Letter from M.H.Baillieu (14.10.49) regarding a proposal to erect lead smeltery & refinery at Broken Hill & letter & report from OHW (23.12.49) from Adelaide
 - d "The Practical Application of the Refining Processes as Practiced at the Broken Hill Associated Smelters Pty Ltd", Port Pirie by C.G.Pain, April 1955
 - e "The Development & Application of the Continuous Lead refining Process" by G.K.Williams (bound, undated 2 copies)
 - f Outline of the Original Lead Refinery designed & operated in accordance with the Parkes Process of Lead refining" 9.12.31 1. Description of Metallurgical Practice, 2. Cost of Production, Description of Layout of Parkes Process Refinery

- 8 Splendid photos on linen of Broken Hill North machinery.
- 9 Volumes I,II,III,IV of the autobiography.
- 10 a Volume relating to (1) Newington College
(2) Charters Towers School of Mines
(3) Letters on War Decorations & press cuttings
- b War Letters
- c CMG Appointment as Companion of St Michael & St George for services to Mining & Metallurgy. Letters relating to appointment.
- 11 a Metallurgical reports by OHW: Broken Hill Associated Smelters Pt Pirie 1929-1933.
- b Records of service with BHAS Pty Ltd 1.2.20-31.1.35
Nth Broken Hill Ltd. 1.2.35-8.10.47
- c Statistical & Laboratory investigation of ore types at Broken Hill
(abstract H.C.Burrell 28.8.45)
- d Report on S.American Tour by L.Alyons Aug-Dec 1945.
- e Notes on survey methods by H.Thornloe Smith, Chief Engineer with Irvinebank Mining Co (collected by OHW)
- f Frank Green "Lead Sintering Practice at Pt Pirie" 1949
- g Dandy Binder with typed notes on useful formulae & data – including trigonometry, atomic weights
- 12 a Roll (unopened) Certificates of Belgian War Veterans & Somme Medal
- b Roll (unopened) School of Mines Diplomas (3)
Membership Inst. of Mining & Metallurgy
Appointment as Captain in AIF
Mine Managers' Certificates
- c WSS Tenterfield Champion NCAC inscribed cricket ball
- d NSWRA Schools Championship, Newington Broad Jump Medal 1903
- e Charters Towers Medal (Browne) (2)
- f CMG Medal
- g Officer whistle
- h Container for Military Medal
- i Ypre Clip, small sword, Metal Pin
- j Colours & Full size Medals & Miniature Medals & Badges
- k Dept Defence xxx Active Service
- l RSSAILA trowel (BH Sub branch) June 1951
- m Trowel for laying Foundat'n stone of new Band Hall (OHW was patron)
- n Burns Philp presentation to Mrs Waddell
- o Mrs Woodward present on leaving Pt Pirie
- p M.M.Woodward Modelling Figure Group (1969)

- 13 a North Broken Hill Ltd Reports & Statements of Accounts (reg office 377-379 Lt Collins) Nos 29-41 for financial years ending 30.6.1935 to 30.6.1947. Note that OHW was a director from 1945-1947 & his MC and 2 bars were noted from 1943 onwards.
- b Australasian Institute of Mining & Metallurgy Presidential Address 1940. 142 pages including statistics. Good brief history of mineral finds & company development.
- c BHAS Pty Ltd General Superintendent's Report, Financial year ending 2.7.30 (Part 2)
 1. Lead Ore Stocks 2. Dwight Lloyd Dept. 3. Blast Furnace 4. Refinery
 5. Wharf Operations & Transport 6. Power Plant 7. Maintenance Dept.
 8. Ore & Flux Crushing 9. Flux & Clay Quarries 10. Potteries
 11. Experimental & Research 12a. Bellambi Coke Works 12b Coke Supplies
 13. Accountancy 14. Industrial 1. Industrial Disease -compensation Lead Poisoning
 b.Labour Force 3. Industrial 15. Industrial Hygiene 16. Construction 17. Assay
- d Works Index: first edition of classification of general data with reference to Plant and Accessories (OHW, Acting Plant Superintendent) 12.5.31
 An alphabetically arranged listing, e.g. all furnaces appear as Furnace Blast etc.
 Headings include: blocks, baghouse, stack, smelters, and stone, retorts
- 14 "A Tunneller's Story" written in 1965 referred to earlier publications & diaries:
 His paper in Vol 37 of Aust Inst. of Mining & Metallurgy (1920) on engineering principles
 "My Story of the Great War" (1932)
 OHW noted how much was written on many aspects of war but not on tunnelling. 20,000 tunnellers in 27 Companies (18 British, 3 Canadian, 3 New Zealand, 3 Australian).
 Tunnelling was not undertaken in the second world war.
 2 copies of "My Story of the Great War" & "An Australian Tunnelling Coy in France" are now in this box also.
- 15 a "My Tour Abroad April-December 1934: Canada, USA, Mexico, Gt Britain, Europe
 b The Drake Gold & Copper Field NSW. (Published 1964)
 Part I The Gold and Copper Field of Drake. From annual reports of the Dept of mines NSW plus Reports of the Govt Geologist Prof T.W.E.David (1887) & E.C.Andrews (1904)
 Part II The community life of the people. Major source Mrs R.B.Ramsay
 c Volume V of Autobiography (inscribed "To Winnie Woodward")
 d Envelope dated 4/8/13
 1. Letter (21 pages) John Moffatt to George Waddell from Irvinebank 30/5/1884
 2. Distribution of 25 sets of the autobiography bound in board & 25 sets bound in leatherette, noting that Winnie's copy was presented to the Archives of the University of Melbourne in 1977. She died 9/8/73. These lists were probably prepared by Mrs O.H.Woodward as copies to "self" are included.
 3. Grandmother Reid's birthday party 4.10.1895
 4. Note on radio talk on firing of Hill 60 (given in 1930s) by John McDiarmid Royle (who was in photo of Officers of No 1 Tunnelling Co.)
 5. Notes on Drake field (Barbara 21.7.78)
 6. Notes on OHW publications (Barbara 16.6.78)
 7. Notes on people in John Moffatt's letter
 e Copies of letters from OHW sent with autobiogs & letters in receipt & of thanks, including Cairns Historical Society 7/8/1962 (S.R.Williams, acting Hon. Sec)

Note: 1916 diary 1982.0140.0001
 1917 diary 1982.0140.0002
 1918 diary 1982.0140.0003